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AUTHOR Mehallis, Mantha Vlahos

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## ABSTRACT

An assessment of the training needs of Ercward County, Florida, employers was conducted: (1) to determin€ the existing training needs of large businesses, industrial firms, and local units of government; (2) to determine which educational agencies in the county could fulfill these needs: and (3) to inform the companies of the results in order to begin planning for needed programs. From the 930 employers who had 50 cr more employees, a stratified random sample of 400 employers responded to questionnaire interviews. Variables studied included: geographical area, company type (occupational category), employee qualities, types of positions or job categories (current numbers employed in each and one-, two-, and five-year projections), recruitment, current training, identified training needs, incentives, interest in training programs, employment of handicapped, and affirmative action plans. Findings indicated numerous training needs, primarily in the medical and industrial fields. Many of the programs currently offered needed to focus on job-entry competencies, and in other areas supplemental training was needed to upgrade and/or retrain present employees. In still other areas, no training was available. A literature review and survey methodology are discussed. Appendices contain the questionnaire and other occupational information. (Author/ME)



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BROWARD COUNTY

Empirers' Training Needs Assessment

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## Conducted by

Dr. Mantha Viahos Mehallis, Director Office of Institutional Research & Systems Planning Broward Community College

Program funded by the Department of Labor through the Broward Employment and Training Administration

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#### ABSTRACT

# BROWARD COUNTY EMPLOYER TRAINING NEEDS ASSESSMENT

by

#### Mantha Vlahos Mehallis

An assessment of the training needs of Broward County, Florida employers was conducted by the Office of Institutional Research and Systems Planning of Broward Community College (BCC) funded by the Department of Labor through the Broward Employment and Training Administration (BETA). The purpose of the study was:

- (1) To determine the existing training needs of large businesses, industrial firms, and local units of government in Broward County;
- (2) To determine which educational agencies in the County can best fulfill these needs;
- (3) To inform the companies of the results in order to begin planning for the needed programs.

The descriptive, personal interview approach was used as the research method. A stratified random sampling was selected from the 830 employers with 50 or more employers in the fall of 1977. Strata consisted of geographic location (north, central, and south sector of the county) and company type (industrial, 21.3%; non-industrial, 75.7%; government, 2.8%). All employers were contacted, and 400 completed interviews were obtained by the project coordinator and three interviewers with only 8% refusals. Variables studied included: sector (north, central, and south), company type (occupational category), employee qualities, types of positions or job categories (current numbers employed in each, one-, two-, and five-year projections), recruitment, current training, identified training needs, incentives, interest in training programs, employment of handicapped, and affirmative action plans.

The questionnaire was pilot-tested to determine validity and reliability. Data were analyzed descriptively by frequency distributions and crosstabulations of variables for establishment of baseline results. Analysis of variance and multiple regression analyses were also performed and resulted in no significant difference in the existence of training needs in occupational categories throughout the county. The only difference is in the specific type of need within each job category.

Findings indicate there are numerous training needs in the county, primarily in the medical and industrial (manufacturing, electronics, marine industry, and other highly skilled technical areas) fields. Many of the programs currently being offered by the educational agencies should be revised to focus on competencies necessary for job-entry. In numerous areas supplemental training is needed to upgrade and/or retrain present employees.



Other areas exist where there currently is no available training. Programs should be developed by the educational agencies and the employers jointly to fill the gaps. Employers were informed of the results and many will be working with BCC to form stronger communication linkages for the purpose of implementing the needed programs.



#### FOREMORD

The Department of Labor through the Broward Employment and Training Administration made the Broward County Employer Training Nèeds Assessment possible by funding the CETA Title VI Project submitted by Broward Community College's Office of Institutional Research and Systems Planning, for 1977-78. The assistance of both the Broward Industrial Board and the Fort Lauderdale Area Chamber of Commerce contributed to community acceptance and field validation of the project. Their support was appreciated greatly.

Further support was present from Broward Community College's Board of Trustees, President A. Hugh Adams, and Executive Vice President, Clinton D. Hamilton. They endorsed the project which enabled the Project Director, Mantha Vlahos Mehallis to employ Kathleen Koontz as Project Coordinator. Ms. Koontz did an outstanding job as a Coordinator in organizing the three interviewers, Pearl Hersom, June Johnson, and Jeann Skudlarek, into a team with the research and interviewing skills necessary to complete the project. All contributed to the success of the project, which is described in detail herein.

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# Introduc**t**ion

The Broward County Training Needs Assessment Survey is an outgrowth of the need for planning by both the educational agencies and the business/industry/government employers of the county. This report addresses itself to such factors as current and future needs for training and manpower, present capabilities of educational agencies to meet the manpower needs, and recommendations for community planning to meet those needs.

The information base for the study was comprised of 400 major employers in Broward County (business, industry and local units of government with 50 or more employees). Information was fed back to each of the survey respondents and educational agencies in the county, thus providing them with the assessed manpower training needs and recommendations relative to their own business and educational activities. The data base generated by the survey will provide countless items of information of importance to employers and educators for use in planning and program development.

This study has been an attempt to direct attention to the community-based educational needs. The benefits of such a study include the opportunity to define needs more effectively to identify most appropriate solutions, and to promote interaction between the public and private sector to facilitate the delivery of instruction which contributes to the economic well-being of the community.



## Review of the Literature

A needs assessment is a systematic study to identify if a need exists and, if so, to validate the existing need, or gap between "what is" and "what should be." In this paper, a need is defined as that gap (Kaufman, 1972). Research methods for assessing needs are becoming essential tools for educational decision-making and planning (Hershkowitz).

"Technology continues to increase the complexity of our occupational society. It is not simply a matter of the increasingly rapid rate at which new occupations are created. Rather, it also involves recognition of the fact that these newer occupations require more skills and knowledge. As a result, the demand for unskilled labor diminishes each year. Relationships between education and work become closer and closer...Yet both educators and the business-labor-industry community have failed to act constructively in accommodating to this fact.

(Hoyt, 1975, p.355)

As pointed out by Campbell (1977, p.40), "Industrial education, to be effective, must serve the people who live, work, and play in a particular environment ... If industrial education is to be meaningful and assist the student toward gainful, rewarding employment, all levels of industrial education must step back and take a long hard look. Industrial educators should determine if student and community needs are being met. A needs assessment is vital."

The need to relate the students' learning needs and goals to employers' needs and the demands of the job market is extremely important. The growth trends in the U.S. Department of Labor's Occupational Outlook for the Mid - 1980's (1974) indicate that the need for professional and technical workers will grow faster than any other occupational group. Summaries of reports commissioned by the Southern Regional Education Board (1973) showed seven out of ten fields studied to be growing or suffering shortages. Enrollment in two-year institutions is growing faster than in four-year institutions. Center for Educational Statistics, 1977). State Advisory Councils on Vocational-Technical Education report that there are large numbers of graduates of vocational and technical education programs who are not finding employment in areas for which they have been trained. This indicates a gap between what students and educators see as necessary to a meaningful and rewarding career and what the business and industry community needs in order to operate effectively.

Most needs assessments show concern with learner needs or employee satisfaction and work attitudes. However, little has been done to assess the employers satisfaction with employees and the employer's training needs.



Hershkowitz (1974) selected five models which were considered to be the most advanced and comprehensive programs used by state education agencies for needs assessment. Those states were Kentucky, Maryland, New Jersey, Pennsylvania, and Virginia. The needs assessments were generally concerned with elementary and secondary education.

In an article, Warner (Hershkowitz, 1974, p 14) lists one criterion for determining the quality of an educational needs assessment as whether, "the strategy includes provisions for collecting data about student learning objectives into three categories: Perceptions of the community (including business & industry), educators, and the learners with regard to the relevance and importance of the objectives." Only the Maryland model included the business and industry community in the questionnaire.

In attempting to assess the need for new vocational/technical occupations programs, Walter J. Brooking (1978) suggested including the business community in the survey and made recommendations with regard to the type of information to be collected. "A commonly used method of determining the need for a new educational program is a direct canvass of potential employers in the geographical area to be served. A questionnaire requesting information pertinent to the program under study is an often used beginning for this activity ... The questionnaire should be designed to elicit information of this nature:

The types of positions available
The number of past, present and future employees
The opportunities for promotion
The prerequisites for employment positions
The characteristics sought in potential employees
The pay scale for initial employment
A description of duties to be performed."

In the San Diego Community College Districtwide Needs Assessment Report (1975), one of the stated goals was to provide a realistic basis for selection of programs and resources. The participants in the survey were residents of the community, current students, former students, community college staff, and community leaders. The business and industrial populations were not asked for their opinions of the job being done by the community college. The Community Needs Assessment, conducted by the Task Force on Assessment of Community Needs, Chemeketa Community College (1975) in Salem, Oregon was basically an assessment to determine the classes and services desired by the community residents. In this case, also, the business and industry communities were not included.

The Appalachian Developing Institutions Consortium Progress Report No. 5 (Roesler, 1974) is one of the few educational needs assessments that included a survey instrument that was sent to local businesses and industries. A goal of the consortium was to determine the educational interests of the students and the projected manpower needs of the area.



Using data gathered from these two perspectives, investigators then planned to develop appropriate vocational/technical/occupational education programs.

Talarzy's atudy (1975) included a questionnaire to local employers that used many attitude questions but did not rectly ask the employers what kinds and levels of skills they hoped to find in local vocational/technical graduates. Still other research, such as the reports, abstracts, and models found in the Educational Resources Information Center (ERIC) system, (Phillips, 1975; Florida State Department of Education, 1976; McCaslin, 1976; Tuttle and Alexander, 1976; Wiant, 1976) are concerned with student goals, teacher accountability, and curriculum development but do not place much emphasis on the opinions and perceived needs of local businesses and industry. However, Tuttle and Alexander (1976) recommended that surveys of local industry be conducted in order that local vocational/technical facilities and community colleges do not train students for jobs that do not exist.

The urgent need to involve the business and industrial community in planning for more effective job training is evident as expressed by the studies and recommendations made by Stochr (1976), Talarzy (1975), Tuttle (1976), and the Florida State Advisory Council on Vocational and Technical Education (1975). They all recommended more direct communication with employers. The local community college and the technical schools are some of the best facilities for subsistence training for local industry.

The Florida Advisory Council (1975, p.22) recommended that, "School districts and community colleges should perform the following: Maintain constant liaison with employers in the business and industry community and city, county, state, and federal agencies in order to identify job opportunities and descriptions." The Council also stated that, "A concerted effort should be made by the Division of Community Colleges and Vocational Education to determine the reasons vocational and technical education students often are not employed in jobs related to the field for which they have been trained. This data should then be used to restructure and update vocational and technical education offerings to make them more relevant in terms of the needs and interests of business and industry as well as the students themselves."

## Background

An industrial climate audit was conducted by the Broward Industrial Board (BIB) and Broward Community College (BCC in January of 1977. The study explored the attitudes of industrial firms with regard to public vocational/technical training in Broward County. The survey showed that although 82.5% of the respondents would recommend the area as a location for corporate facilities, most felt that the employment market was not adequate for their needs as indicated by the responses to the following questions:
How would you rate the public education system in Broward County?

Very Good	3.4%
Good	20.3%
Average	28.8%
Poor	37,3%
Very Poor	10.2%

Even though critics of the investigation have found fault with the research design, the overwhelmingly negative response to the adequacy of training programs points to an area of great concern. This area of concern, namely the lack of well-trained employee candidates, was confirmed in personal interviews with the leadership of BIB and the Fort Lauderdale Area Chamber of Commerce.

Broward County had exhibited a high rate of unemployment (July, 1978). Yet, there are many job openings which go unfilled because of the apparent lack of qualified, local talent. It appears that there is a gap between persons looking for employment and those seeking employee candidates. The gap is caused by inadequate skill training. Because of the gap, employers have tended to look outside of Broward County, even outside of Florida, for people to hire. In the meantime, the local unemployment rate remains high.

The Broward Employment and Training Administration (BETA) funded the Broward County Employers Training Needs Assessment proposed by the Office of Institutional Research and Systems Planning of Broward Community College (BCC) for 1977-78. The grant enabled the hiring of a project coordinator, three interviewers, and a secretary. The Project was the first County-wide effort of its type which coordinated business, industry, government, and education efforts. The communication linkage formed between the public and private sectors in this endeavor is the first step toward the implementation of meaningful training programs to serve people seeking employment as well as those seeking employees.

The report presented here in the following pages defines the Broward County Needs Assessment in detail.



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## Summary

Needs assessment is a systematic procedure for determining the gaps between "what should be" and "what is." The gap is defined as a need. Desires, wishes, objectives, and goals are not needs, but discrepancies are. Conducting a needs assessment includes, first, determining "what should be" in terms of goals and standards. Second, "what is" is determined by an assessment of existing conditions. Then, analysis of the discrepancies between the goals, or standards, and the existing situation identifies the needs. Finally, some method is employed to set priorities for the needs, or discrepancies, identified.

Persons involved in planning will find needs assessment to be a valuable tool. The needs assessment may be applied to internal conditions within the institution or to the external service area. In addition to educational institutions, many social service agencies utilize needs assessment to identify and establish priorities for community needs. Often vocational directors and deans are required to substantiate community needs as part of the justification for new program approvals. 1) Witkin (1975) has summarized the major approaches to needs assessment; 2) The first step is to review existing procedures and select the techniques most appropriate in each individual case; 3) The needs assessment can be a useful tool for obtaining the necessary data.

## Statement of the Problem

The problem was that although Broward County Employers had indicated that they have training needs which have not been met by local educational institutions, there had not been a scientific, county-wide assessment to document the existing needs and current educational offerings in order to determine which educational agencies might best fulfill the employers' needs.

#### Statement of Purpose

The BIB's industrial climate audit indicated a need to survey Broward County employers in depth with regard to their perceived needs for educational training programs. After thorough research and discussions with BIB and the Fort Lauderdale Area Chamber of Commerce, the purpose of the study was determined to be:

- To determine the existing training needs of large businesses, industrial firms, and local units of Government in Broward County;
- To determine which educational agencies in Broward County could best fulfill these needs; and
- 3. To inform the companies of the results in order to begin planning for the needed programs.



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## Major Issues

This is the first time that the educational sector of the community has worked with the private sector (industry and business) and the public sector (municipal governments) on a county-wide scale to determine training needs. Identifying the overall employer needs is the initial step in the attempt to meet the needs of the unemployed and under-employed of Broward County.

Research Method: The research method utilized in this study was the descriptive, personal interview approach.

<u>Variables Studied</u>: The variables studied and their operational definitions included the following:

Variable I. Sector Operational Definition

A. North (North of Oakland

Park Blvd. to

northern county line)

- B. Central (South of Oakland
  Park to Griffin
  Rd , Dania Cut-off
  Canal)
- C. South (South of Griffin Rd. to southern county line)

## See Appendix A

II. Company Type

- A. Industrial
- B. Non-industrial or business
- C. Government
- III. Employee Qualities
- A. Basic skills (Reading, spelling, mathematics)
- B. Prior qualifications (Skill training, experience)
- C. Interest
- D. Personality
- E. Ambition
- F. Personal appearance
- G. Work attitude
- H. Responsibility
- I. Other
- IV. Types of Positions
- A. Self-report by respondent for current, one, two, and five year projections.
- V. Recruitment Sources
- A. Private employment agencies
- B. Florida State Employment Service
- C. Newspaper ads
- D. Employee referrals



- E. College, high school, or technical school placement offices
- F. Professional publications
- G. Other public agencies
- H. Other

- VI. Current Training
- A. Responses to questionnaire
- VII. Identified Training Needs
- A. See VI above
- VIII. Interest in Training
  Programs
- A. See VI above

IX. Incentives

- A. Release time from work
- B. Company payment
- C. Possible subsequent promotion
- D. None
- E. Other
- x. Employment of Handicapped
- A. Responses to previous employment practices
- XI. Affirmative Action
- XI. See VI above.

# Research Questions

The primary research questions were the following:

- 1. What are the current employee qualities, training incentives, and recruitment practices?
- 2. What are the existing training needs and interests of businesses, industrial firms, and cocal units of government by sector and types of positions?
- 3. Which educational agencies in the service area can best fulfill the identified needs?
- 4. What are the best feedback strategies to inform companies of the results in order to begin planning for the needed programs?



# Definition of Terms

American Institute of Banking AIB The ability to perform at a 12th grade level Basic Skills in the skills of reading, writing, and math Broward Community College BCC Broward Employment and Training Administration BETA Broward Industrial Board BIB Comprehensive Employment and Training Act CETA Dictionary of Occupational Titles DOT Educational Resources Information Center ERIC Needs A process for determining "what is" and "what Assessment should be" occurring and for placing priorities among them (Kaufman, 1972) Occupational Used synonymously with "vocational education"

to designate programs preparing students with

Occupational Outlook Handbook OOH

On-the-job Training OJT

Education

South Florida Manufacturer's Association **SFMA** 

Statistical Package for the Social Sciences SPSS

job entry level skills

Stratified Elements, where each has an equal chance of Random Quota being selected from a population, which are Sample selected to fill quotas from various stratifications

Courses designed to upgrade or retrain persons Supplemental already employed in the field. Education



# Assumptions

The following basic assumptions were made:

- That there are training needs in existence which employers can identify and report;
- That employers were candid and honest about their identified needs.

## Limitations

The following limitations were beyond the control of the researchers and may have affected the results:

- Personal interviews, by their face-to-face nature, may lead respondents to be less than totally candid which would result in assessment of more positive attitudes and less identification of training needs;
- If non-respondents could have been polled, more needs might have been identified;
- Even though appropriate sampling techniques were utilized, there is a possibility of a Type I error;
- 4. The employers were restricted within Broward County whereas employment of students is likely to be in the tri-county (Dade, Broward, and Palm Beach) area. Therefore, the tri-county area needs would be greate: than those enumerated in the present study;
- Cyclical changes in the tourist season impinge upon personnel and the number of persons employed;
- Employer's projections cannot be validated until the year of the projection;
- 7. The scope of the questions had to be limited so that the interviews did not exceed one-half hour. Maybe there should have been additional questions to probe more details;
- 8. Interviewers may have erred in recording responses;
- 9. Keypunchers may have made errors even though the data were verified;
- 10. Demographic characteristics of respondents, such as sex and age, may have affected responses. Since only one personnel director in Broward County is black, race would not be a determining factor;
- 11. Only employers were interviewed. Interviewing employees may have resulted in different responses regarding training needs;



- 12. Position of the respondent in the company probably influenced the type of response obtained;
- 13. Establishing the fifty employee minimum disqualified greater numbers of Broward County employers who have many valuable opinions;
- 14. Employers were not asked to distinguish between training needs for entry level positions and for upgrading of current employees. The types of needs may be distinct and varied;
- 15. Employers were not asked to differentiate between skill levels of positions (unskilled, semi-skilled, skilled, professional).

  Again, the training needs would probably be varied.

## How to Conduct a Needs Assessment

Once a decision is made to identify and assess needs, the following steps should be addressed:

some problem must first exist before the decision to conduct a needs assessment should be undertaken. The needs assessment, or any research project, should not be undertaken merely for the sake of research. It should be utilized only if it is deemed the best approach to solving an existing problem. The problem, or need, may be thought of as a "gap" in "what is" and "what should be" or as a mission information linkage regarding program development. The problem should be stated in a single, concise, declarative statement which leads to the purpose of the needs assessment.

The purpose indicates what the investigator intends to do about the problem. This includes the objectives of the study and the major variables to be assessed. A needs assessment primarily utilizes the descriptive research method. The variables to be assessed should be stated and operationally defined as "grade point average." Research questions or hypotheses follow. Research questions are major questions for which the investigator will be finding answers so that her/his purpose may be accomplished. Hypotheses are only used in experimental or quasi-experimental studies where the researcher wishes to infer from a random sampling to the population.

Methodology includes the actual procedures followed. First the group to be assessed must be identified as the population from which a sample, or several samples, will be drawn. An example of a population is all business and industry in Broward County with 50 or more employees in the fall of 1977. Then the sample and the method for its selection should be stipulated. For example, the sample may be a random sampling of 500 businesses and industries in Broward County with 50 or more employees in the fall of 1977. Samples may be stratified to more closely approximate the population from which they are drawn. Stratifications should be specified and could include strata, such as geographic location, product type, and size of company.

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Procedures for data collection are part of the methodology. Sufficient explanation should appear so that another individual could replicate the study. Before a questionnaire survey instrument is to be prepared, the investigator should check existing sources (Buros, 1965; Chun, et. al., 1976; Robinson, et. al., 1969) first to ascertain if there is a valid and reliable instrument which could be used. If not, a questionnaire should be developed using the review of current literature and interviews with experts in the field (employers, educators) for the first draft. The instrument must then be pilot-tested on a group similar to the sample group and revised. The validity and reliability factors must be determined.

A questionnaire captures information only as valid and reliable as the questions included in it. Poor questions will lead to poor results containing misleading information.

Procedures for treating data must be determined prior to the actual needs assessment. The treatment of data dictates the format in which data is ordered. Descriptive statistics, such as frequency tabulations, percentages, histograms, bar graphs, pie charts, and tables, will be appropriate for use in treating data found in most needs assessments where the purpose is to describe an existing situation with a nonrandom or a saturation sampling. Inferencial statistics utilizing tests of significance (t-test, analysis of variance) are only used if the investigator plans to infer from the random sample to the population.

Results should be displayed in concise, tabular form so that conclusions can be drawn readily. The conclusions specifically list the needs identified in the assessment. The significance of those needs to the educational institution and to the business and industry committees should be fully explored. Recommendations for action should follow and indicate specifically who should be responsible for their execution. These recommendations then become the pals and objectives for the program and staff development. As Resnick (1978, p.27) says, "The point is not to collect data. The point is to use the data collected to identify the need areas and go on to establish goals for the development program."

## II. Methodology

All employers (830) with fifty or more employees in the fall of 1977 were included in the population. Identification of the entire population is difficult, especially in a large, fast growing county such as Broward. The list of employers was obtained from the State Department of Commerce. Confidentiality of the list was assured.

Five-hundred-and-forty was chosen as the total sample size with the hope there would be at least 384 completed, usable interview questionnaires. The 384 sample size is required for a 0.05 level of significance with 5% precision, as determined by Backstrom and Hursh (1963) and Krejcie and Morgan (1970). A stratified random sampling of the 540 was selected on the basis of the following:

Geographic Location - (North, Central, and South sector of the county paralleling the North, Central and South campus regions)

Company Type

- Industrial (21.5%)
- Non-industrial (75.7%)
- City Government (2.8%)

The following matrices indicated the actual stratifications in the community by frequencies and percentages and the application of those percentages to the sampling:

# Sample Selection

Total Employers in Broward County with 50 or more employees

County Sector	Manufacturing	Non-Manufacturing	City Government
North	78	237	9
Central	51	281	7
South	49	113	5~.
Number for Sampl	e Selection - (Sa	ample Number 540)	
North	51	154	6
Central	33	182	5
South	32	73	4
Number of Comple	ted Interviews		
North	48	107	4
Central	22	162	5
South	20	30	2
Percentage of To	tal		
North	9.4%	28.5%	1.1%
Central	6.1%	33.8%	1.0%
South	5.9%	13.6%	.6%

# Failure to Complete Interviews

Total Population = 830 employers

400 completed interviews = 48.5% of total population 430 rejections = 51.5% of total population

Reason	Actual Number	Percentage of Population
Outside of Broward County	36	4.3%
Refused	185	22.2%
Too Small	55	6.6%
Could Not Locate	97	11.6%
Duplicates	25	3.0%
Not Scheduled	31	3.7%
Private Residence	1	0.1%
	430	51.5%

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Actual rejections (refusals and not scheduled): 67, or 8.1%

## Procedures for Data Collection

A coordinator and three interviewers were hired by the Director of Institutional Research and Systems Planning to conduct the study.

# Orientation

During the first few months, the project workers spent most of their time orienting themselves to Broward Community College, its staff, and the community it serves. They also began an exhaustive study of the literature for material regarding needs assessment and interviewing techniques. The orientation phase proved to be invaluable later in the study when the project workers were required to answer numerous questions from respondents with regard to Broward Community College and its programs.

# Interviewer Training

Interviewers were required to write papers concerning the interviewing process in order to familiarize themselves with the techniques and to learn the approach to a library search and the referencing of bibliographic materials. An interviewer training session was developed by the Director of Institutional Research and Systems Planning.

The training session involved discussion of the various aspects of the interview and questionnaire design. Beginning with an explanation of the purposes of interviews and their value to research, the discussion then centered on the types of interviews, the structure of the questionnaire design to elicit the necessary information, the qualities required of the interviewer and how to go about recording the responses with as little bias as possible. All of these aspects of the interview and questionnaire design are discussed in detail in Chapter 1.

After the interviewers had an understanding of the use and structure of questionnaire interviews in general, the training session turned to the specific questions to be used in the needs assessment. Drafts of the questionnaire were finalized by the Director of Institutional Research and Systems Planning, the BIB, and department chairpersons from Broward Community College with approval from BETA staff.

The final phase of this training was a session of role playing, in which the project coordinator and interviewers took the roles of employers and interviewer, using the actual needs assessment survey instrument, asked and answered the questions. This section of the training was most valuable as it gave all staff members practice in using the instrument and an opportunity to see if the structure of the questions were appropriate and easy to understand. Through this process the questionnaire was again revised, and the interviewing staff became quite familiar with the wording and meaning of each item.



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An interview is a directed conversation with a person or persons that is designed to elicit certain predetermined kinds of information. Borg (1963) states the three (3) main purposes of an interview as: "1) An exploratory device to help identify variables and relations, to suggest hypotheses, and to guide other phases of the research; 2) A main instrument in research; 3) A supplement to other methods: to follow-up unexpected results, to validate other methods, and to go deeper into the motivations of respondents and their reasons for responding as they do."

Social science research usually includes documentary sources, observations, mail questionnaires, and interviews as tools for gaining useful information. The interview is the most valuable tool of social science research. The advantages of a personal interview, as opposed to a mailed questionnaire, include: 1) Permits greater depth; 2) Permits probing to obtain more complete data; 3) Makes it possible to establish and maintain rapport with respondent or at least determine when rapport has not been established; 4) Provides a means of checking and assuring the effectiveness of communication between the respondent and the interviewer." (Borg, 1963). Disadvantages also exist. "Interviews are costly, time consuming, and inconvenient. If the researcher takes advantage of the interview's adaptability, she/he introduces the problem of subjectivity and personal bias. Eagerness of the respondent to please the interviewer, a vague antagonism that sometimes arises between the interviewer and the respondent, and the tendency of the interviewer to seek out answers that support her/his preconceived notions all complicate this method. thorough training required of the interviewer to offset these disadvantages becomes an additional burden, increasing the cost and time factors." (Borg, 1963)

The final success of the interview depends upon the training of the interviewer to be sensitive to the entire dynamic system of interviewing, and upon the development and structure of the survey instrument. The selection of the interviewers is dependent upon the goals of the study. Interviewer trainees must be made to feel self-confident but not over confident. For some forms of interviewing the interviewer may require formal training, however, for the survey interview, the interviewer may need no professional training and little knowledge of research (Richardson, 1965). Some form of training should be provided to train the interviewer on procedures to be used in the particular study and to provide the interviewer with the necessary attitudes and motivation. Some specific training methods are: 1) Written instructions; 2) Role-playing; 3) Cases, actual interviews and group discussions; 4) Interpersonal relations. Skill practice in interviewing is more effective when done in a The learner must feel free to make mistakes as well as achieve success.

She/he must also be able to see and know the effects of her/his behavior if she/he is to weed out ineffective behavior. "Getting feedback is a part of all intelligent practice" (Kahn, 1967).

The practice of role playing involves one member of the group playing the part of the respondent, identifying herself/himself with some actual person whom she/he knows. The trainee playing the interviewer role gets the benefits of practicing the actual works and techniques she/he will use in the interview situation. The interviewer prepares for her/his role by thinking through her/his objectives. The respondent is told what kind of situation is to be played and her/his role is discussed. The remainder of the group acts as observers and takes note of good and poor techniques. The actual role playing should be brief, about ten or fifteen minutes.

It is a good practice to keep the time span between interview training and data collecting as short as possible. Motivation will remain high and instruction will be fresh in the minds of the trainees if the interviews begin as soon as possible after completion of the training.

In the techniques of interviewing there are many characteristics and situations to be considered. The following are some considerations: 1) It is important to gain respondent cooperation. Prior to the interview, it is advisable to contact the respondent by telephone, letter, or personal visit. Setting up the appointment may allow the interviewer to select the time and place; 2) Help the respondent to relax and make her/him feel as comfortable as possible (eq. doctors have patients go to the office rather than in an antiseptic examination room). The ideal situation is one in which only the interviewer and respondent are present (eg. Army installation; veterans complain more of unfair treatment by the public if the wife is present in the interview). The arrangement of furniture can work for or against the interview. It is important not to put people in uncomfortable surroundings, such as a factory worker in the President's office; 3) The actual questioning is an important consideration. After opening remarks the interviewer should try to stay directly with the interview questions. The pace of the questioning should be adapted to the respondent's pace. The interviewer should not be overly probing or the respondent may feel cornered and clam up; 4) Listening is one of the most valuable qualities of a good interviewer. Some pauses may prompt the respondent to give additional information, but it is best to avoid prolonged silences. The interviewer should not begin to think of how she/he will ask the next question, but rather, listen to the respondent's answer without interruption; 5) It is relevant to note what the respondent does not say. Non-verbal behavior can indicate the respondent's attitude and if she/he is nervous.



Methods of recording the interview and sources of error and bias are also considerations in the personal interview. Some methods of recording the interview are: 1) Write-up the interview from memory. Studies comparing taped interviews with memory show that only 40% of the information was retained by memory and that 25% of the statements attributed to the respondent were not hers/his 2) Field ratings. The interviewer rates the respondent's replies on the dimension that is measured on the form. This method is used by professionals. 3) Field coding. The respondent's answers are placed in predetermined categories. One problem with this method is the lack of reliability checks. 4) Verbatiom note-taking. The final answers, however, may contain less than 50% of what was actually said. 5) Mechanical recording. When using audio or video taping it is essential to let the respondent know that she/he is on tape. While these are some of the best ways to record total responses in an interview, they may inhibit the respondent.

Error and bias must be considered when using the personal interview to collect information. Some sources of error include: 1) The interviewer's prior experience and training; this may cause her/him to misunderstand the meaning or perceived aim of the questions; 2) Interviewer errors or biases in understanding the question, since she/he usually is not the one who designed the questionnaire; 3) Error in stating the question. It is important to remember that the aim is to elicit information from the respondent; not to encourage the respondent to say what the interviewer thinks is right or wants to hear; 4) Interviewer error in perceiving the response people will have the same meaning for any given question or answer. These problems cannot be changed, but the interviewer should be aware that they exist); 5) Respondent errors in recall; 6) Respondent biases in response. Social factors such as sex, age, race, and religion can effect the respondent and her/his tendency to give a "socially acceptable " answer; 7) Interviewer biases or errors in recording the response. The responses must be recorded in sufficient detail. Errors some times occur when the interviewer must code responses into categories.

The questionnaire itself should be concerned with obtaining data that is pertinent to the study. Kerlinger (1965) lists the following questions as criteria for question-writing:

- 1. Is the question related to the research problem and objective
- 2. Is the type of question the right and appropriate one?
- 3. Is the item clear and unambiguous?
- Is the question in any way leading?
- 5. Does the question demand knowledge and information that the respondent does not have?
- 6. Does the question demand personal or sensitive information that the respondent may resist?
- 7. Is the question loaded with social desirability?



Borg (1963) discussed the importance of the interview structure. "Unstructured interviews - the client - centered counseling technique of Carl Rogers illustrates the unstructured approach, giving the respondent broad freedom to express himself in his own way and his own time. The interviewer may have a general or specific objective which he feels can best be met without imposing a structure on the respondent. Usually the information involved is of a highly personal and potentially threatening nature. Of the three interview structures, this one is the most vulnerable to subjective bias or errors of experience. 2) Semistructural interviews - these are built around a core of standard questions from which the interviewer branches off to explore in depth. Again, accurate and complete information is desired with the additional opportunity to probe for underlying factors or relationships which are too complex or elusive to encompass in more straight forward questions. Semistructured interviews require more training and skill both to probe at significant points and to avoid biasing tendencies . 3) Structural interviews - the interviewer follows a well-defined structure resembling the format of an objective questionnaire, allowing clarification and elaboration within narrow limits. These tend to be factually oriented, aimed at specific information, and relatively brief. Structured interviews are suitable when accurate and complete information from all respondents is important and when the type of information sought fits readily into a structured inquiry."

The questions themselves will fall into one of these four types:

1) Open - ended questions or essay questions. 2) Close - ended questions or multiple choice questions. This type of question usually produces a greater uniformity of response and easier analysis.

3) Projection questions. These are hypothetical questions about "other people" which assume that the respondent will project her/his own feeling into the response. Eg. "How do most of the girls in the office feel about the supervisor?" 4) Leading questions. These are poor questions, leading the respondent toward a certain answer. Eg. "You're not in favor of \_\_\_\_\_\_, are you?" The wording of the questions should be simple and short in order to avoid confusion.

## Interviewing Procedures

The general procedures for the interviewing process are enumerated below:

- 1. Obtained verbal commitment of community groups (in this case, the Broward Industrial Board and the Fort Lauderdale Area Chamber of Commerce);
- Obtained documented commitment in the form of a letter to employers from the supporting community groups. (See Appendix B);
- 3. Obtained a mailing list of the population;
- 4. Selected the stratified random sampling from the population to reflect its components in a more manageable size;
- 5. Mailed the BIB/Chamber letters to employers introducing the project and the project director's name;
- 6. Sent a follow-up letter from the project director to the sample of employers introducing the name of the interviewer who would call them. (See Appendix C);
- 7. Interviewers phoned employers to set up times for the personal interviews and sent copies of the occupational job titles asking for current, one-two, and five-year projections to be completed in advance and available for the interviewer to retrieve at the time of the interview.

  (See Appendix D & E);
- 8. Conducted personal interviews of approximately onehalf-hour duration; and
- 9. Thank-you letters were sent to the interviewed employers, including follow-up letters requesting the occupational job titles from those who had not completed and returned them previously. (See Appendix F, G, H).



## Instrumentation

The major variables included in the study were determined as a result of review of the literature and discussions with representatives of the Broward Industrial Board (BIB), the Fort Lauderdale Area Chamber of Commerce, and the Broward Employment and Training Administration (BETA). From the variables and research questions, a draft of the questionnaire was developed for use in personal interviews. A list of occupational job titles for each type of company was developed also.

The questionnaire and job titles were given to BCC Department Chairpersons in the respective occupational fields for input regarding validity. Revisions were made based upon their knowledge. The revised job lists and questionnaires then were pilot-tested.

Pilot-testing was conducted with randomly selected employers stratified in the same manner as the sampling distribution for the survey itself. The pilot test was utilized to validate both the instrument and the methodology. Revisions again were made in the occupational job titles listings and in the content and wording of questionnaire items. Even though response items appear in the questionnaire, they were to promote ease of coding by the interviewer rather than to inhibit open-ended responses of employers. The instrument was devised to require no more than half-an-hour interviewing time. The questionnaire appears in Appendix I.

Below is a brief description of each major variable covered in the questionnaire with an explanation of how it was handled:

	Variable	Response
I.	Position in Company	Self-resp <b>o</b> nse
ır.	Employee Qualities	Self-resp <b>o</b> nse
III.	Adequacy of Present Employee Preparation	Yes-No Multiple choice response
IV.	Anticipated New Products or Services within 5 years	Self-response
v.	Anticipated Cut-backs within 5 years	Self-response
VI.	Difficulty Filling Positions	Self-response
vII.	Recruitment Sources	Self-response
vIII.	Orientation of New Personnel	Self-response
ıx	Supplemental Training	Self-response





	<u>Variable</u>	kesponse
- 1 - 1 - 1	Specific Training Needs not being met	Self-response
xī.	High Turnover	Self-response
IIX	Employee Advancement	Self-response
xiii.	Filling Management Level Positions	Multiple choice
XIV.	Interest in New Training Programs	Yes-No Multiple choice response
XV.	Preference of Training Sites	Multiple choice
XVI.	Incentives for New Programs	Self-response
XVII.	Hired Handicapped	Yes-No Multiple choice response
XVIII.	Willingness to Participate in Special Training Programs for Handicapped	Multiple choice
XIX,	Affirmative Action	Yes-No Multiple choice response



## Treatment of Data

The data were analyzed by means of both descriptive and inferential statistics. Descriptive statistics consisted of frequency counts, modes, and crosstabulations using the Statistical Package for the Social Sciences (SPSS) computer program. Graphic presentation of data in the form of charts and matrices was utilized for further description of questionnaire responses and the mapping of existing educational programs in the area. The analysis of variance was used to determine significance at the 0.05 level of significance. A panel of experts assisted in selecting feedback strategies.

## Mapping the Training Needs with Educational Agencies in the County

Upon completion of the survey, all training needs were compiled and analyzed. Many of the courses or programs needed by employers were already being offered at public and private schools in the area. In order to inform employers of existing programs and where they were being taught, an investigation was made of the course offerings and content of each school. This information was obtained by calling or writing to the schools to request program listings. The School Board of Broward County was the only educational agency not able to supply full information of their vocational/technical program offerings. All other programs available were received in the form of school catalogs and brochures. A listing of School Board programs was obtained from the State Division of Vocational Education. After analyzing the information received, the courses were organized by major disciplines and a chart was devised to send to participating employers showing where programs were being taught in both public and private schools (See Appendix J).



## III. Results

The objectives of the study included interviewing a minimum of 384 major businesses in the county. A stratified random quota sampling was selected as described in Section II. When all interviewing was completed, all of the 830 major employers in Broward County had been contacted for an appointment. A total of 400 completed questionnaires were obtained which provided the information base for the study.

Tables 1 and 2 (Sample Description) detail the frequency and percentage distribution of survey respondents by discipline (Table 1) and by occupational category. The largest number of survey respondents were in the Distributive occupations.

The following section describes in detail, the responses to each questionnaire item:

Question #1 refers to the interviewee's position in the company. In order to obtain a consistent point of view, the project workers attempted to interview the personnel manager of each company. Many companies, however, do not have a personnel manager, or the duties of this position were carried out by another member of the management. Table 3 shows the distribution of position titles by frequency and percentage. The most frequently occurring "other" responses are shown in Table 4.

Question #2 asks for the most important quality that employers look for in employee candidates. Although response options were included on the questionnaire for easier coding, this was a self-response item. Table 5 shows the response by frequency and percentage distribution. The most frequent responses were prior qualifications (skill training, experience) and others. The most frequent "other" responses are shown in Table 4. Table 6 shows the majority response to this item by occupational category.

Question #3 is a multiple choice item. This question was asked in an attempt to learn the adequacy of present employees. Table 7 shows the responses by frequency and percentage. The majority of employers indicated that their present employees are adequately prepared. However, a good deal was learned about employers' attitudes in asking this question. Indirect information received during discussions of this question with employers is dealt with in the Observation Section of this report.

Question #4 & 5 ask the employer about anticipated new products or services within the next 5 years. Table 8 shows the frequency and percentage distribution. The majority of employers expect such expansion to occur and Table 8 also lists the new titles which occurred most often.



Table 1. Sample Description by Discipline

DISCIPLINE	FREQUENCY	PERCENTAGE
AGRICULTURE OCCUPATIONS	10	2.5
DISTRIBUTIVE OCCUPATIONS	183	45.7
HEALTH OCCUPATIONS	35	8.7
HOME ECONOMICS OCCUPATIONS	2	.5
OFFICE OCCUPATIONS	14	3.5
TRADE & INDUSTRIAL OCCUPATIONS	132	33.0
PUBLIC SERVICE OCCUPATIONS	24	6.0
TOTAL CASES	400	99.9
MODE	22.0000	Distributive Occupations

Table 2. Sample Description by Occupational Category

OCCUPATIONAL CATEGORY	FREQUENCY	PERCENTAGE
AGRICULTURE		
Nurseries/Florists/Landscapers	2	.5
Taxidermists	1	.2
Agriculture Supplies & Services	2	.5
Golf Courses/Country Clubs	4	1.0
DISTRIBUTIVE		
Auto Dealerships/Auto Leasing	22	5.5
Banks/Savings & Loans/Commercial	17	4,2
Stock Brokers	22	5
Retail Grocers/Wholesalers	14	3.5
Food Services	1	.2
Hotels/Restaurants/Nightclubs	64	16.0
Insurance/Property Management	14	3.5
Petroleum Services	77	1.7
Real Estate/Land Development	4	1.0
Race Track/Amusements	1	.2
Trucking/Moving/Delivery Services	7	1,7
Department Stores/Retail Businesses	28	7.0
HEALTH		
Medical/Hospital	33	8.2
Mortuary Services	1	. 2
HOME ECONOMICS		
Maid/Cleaning Services	2	.5



Table 2. Sample Description by Occupational Category

OCCUPATIONAL CATEGORY	FREQUENCY	PERCENT/
OFFICE		
Accounting/Computer/Communications	10	2.5
Employment Services	1	.2
Law Firms	3	.7
TRADE & INDUSTRIAL		
Electrical A/C Repairs	1	. 2
Airlines	3	.7
Construction	21	5.2
Architectural Occupations	1	, 2
Pool Maintenance	1	. 2
Laundries/Dry Cleaning Services	2	.5
Printers/Newspapers/Photographers	7	1.7
Ship Builders	4	1.0
Manufacturing/Machine Shops	93	23.1
Energy Sources/Utilitles	1	.2
Radio Stations	2	.5
PUBLIC SERVICE		
Security	4	1.0
Schools/Universities	6	1.5
CITY GOVERNMENT	14	3.5
TOTAL	400	99.0



Table 3. Response to Position in Company

QUESTIONNAIRE ITEM	RESPON	ISE
What is your position in the company?	Frequency	ૠ
President or Vice President, General Manager Personnel Manager Public Relations Training Director Other	70 91 0 1 238	17.5 22.7 0.0 0.2 59.4

#### Table 4

Most Frequent "Other" Responses

Item #1 What is your position in the company?

Managers
General, District or Area Managers
Treasurers/Comptrollers
Administrators
Assistant Managers
Secretaries
Owners

Item #2 What is the most important quality you look for in employee candidates?

Dependability
Stability
Honesty
Reliability
Willingness to work and learn

Item #3 What position(s) will be needed?

Computer Personnel

Engineers
Sales
Nurses (LPN, RN, Aides, etc.)
Secretarial (all clerical)
Mechanics
Technicians (Electronic)
Machinists
Assemblers

Item #4 What position(s) will be changed?
Clerical (all)
Nurses Aides
Retail Sales
Keypunch
Restaurant Personnel

Item #5 What are the positions and what is the most prevalent reason for the difficulty in filling each position?

Office Personnel (all, poor skill training)
Restaurant Personnel (all, transient)
Nurses (all, poor pay scale, poor skills)
Sales (transient)
Management (not responsible)
Mechanics (poor pay scale, poor skills)
Keypunch (poor hours)
Electronic Technicians (lack of applicants)
Programmers (poor hours)
Machinists (poor skills)



positions? BETA Walk-ins Word of mouth Minority groups Schools Publications Radio Who currently orients your new personnel before Item #7 they begin the job? Managers Plant Managers General Managers Office Managers Production Managers Who currently conducts supplemental training? Item #8 On-the-job training Managers Manufacturer's Representatives Seminars A.I.B. (American Institute of Banking) Item #9 What are the position(s) and what skills are needed for each? (1=Personal, Behavioral, 2=Technical, 3=Managerial) Management 3 2. Waitresses 2 Machinists 1, 2, 3 Nurses Secretarial 1, 2 2 Electronic Technicians 3 Sales 2 Tool & Die Computer Personnel 1, 3 Home Health Aides What are the position(s) and what is the most Item #10 prevalent reason for the turnover in each position? Restaurant Personnel - Transient, poor attitude - Transient, lack of loyalty Sales - Transient, poor pay scale Secretarial Nurses - Poor pay scale, lack of loyalty - Poor pay scale, transient Bank Tellers

What recruitment sources do you use to fill

Item #6



- Item #11 How do employees advance within the company?

  Job bidding or posting.

  Employee initiative, motivation or interest
  Little or no opportunity for advancement
  Advance in salary only
- Item #12 Where would you prefer that this training take place?

  Depends on courses offered Rotating among hospitals
  Centrally located
- Item #13 What incentives do you currently offer for employees taking further training?

  Additional pay increases & bonuses

  Tuition

  Better position
- Item #14 What types of incentives would you offer?

  Depends on course

  Part tuition
  Undecided
  Commission
  Bonus
- Item #15 Have you ever hired any handicapped persons?

  Physical handicaps

  Deaf

  Missing limbs

  Blind

  Mental handicaps

  Epileptic



Table 5. Response to Employee Qualities

QUESTIONNA IRE ITEM	RESPON	SE
What is the most important quality you look for in employee candidates?	Frequency	8
Basic Skills Prior Qualifications Interest Personality Ambition Personal Appearance Work Attitude Responsibility Other Total Cases	13 126 8 17 8 21 29 11 167 400	3.2 31.5 2.0 4.2 2.0 5.2 7.2 2.7 41.7



## Table 6. Response to Employee Qualities by Occupational Category WHAT IS THE MOST-IMPORTANT QUALITY YOU LOOK FOR IN AN EMPLOYEE CANDIDATE?

	Basic Skills (Reading, Spolling, Mathematics)	Prior Qualifi- cations (Skill Training			,	Personal	Vork	1.	
	HO CHEMP CICS/	Experience)	Interest	Personal Ity	Ambition	Appearance	Attitude	Responsibility	Other
ABRICULTURE	•					i.			
Nurseries/Floriscs/Landscapers		"						•	*
Taxidermists									*
Agriculture Supplies and Service	<u> </u>	, 							*
Golf Courses/Country Clubs		<u> </u>				*	*		*
C = F + C			•			÷			,
DISTRIBUTIVE									
Auto Dealerships/Auto Leasing				*	*				*
Banks/Savings & Loans/Commercial		*					<del></del>	<del></del>	
Stack Brokers	,								*
Retail Grocers								·	*
Food Services		*	*	Í					:
Hotels/Restaurants/Night Clubs									*
Insurance/Property Management				<del></del>					*
Petro leum Services			<del></del>	,	na `				*
Real Estate/Land Development	<del></del>	*		· · · · · · · · · · · · · · · · · · ·					
Race Track/Amusements	<del></del>					·			*
Trucking/Hoving/Delivery Services		*							*
Department Stores/Retail Business	es		<del></del>	·					*
HEALTH									
Medical/Hospital		<del></del>	· 	·	١				ж
Mortuary Services		*							
		1		•					
HONE ECONOMICS			42						
Maid/Cleaning Services		*					<del></del>		حبنب



## Table 6. Kesponse to Employee Qualities by Uccupational Lategory WHAT IS THE MOST IMPORTANT QUALITY YOU LOOK FOR IN AN EMPLOYEE CANDIDATE?

	Basic Skills (Reading, Spelling, Mathematics)	Prior Qualifi- cations (Skill Training Experience	Interest	Persona 11 my	Amb It I on	Personal Appearance	Work Attitude	Respon- sibility	Other
OFFICE									
Accounting/Computer/Communications									* .
Employment Services									*
Law firms		*							
TRADE AND INDUSTRIAL						i			
Electrical/A/C Repairs		*							
Airlines		*		·	<del></del>				
Construction		*	·						
Architectural Occupations		<u>→</u>					····		
Pool Maintenance	······································	<del></del>		~_~		<i>z</i> ł	·		
Laundries/Dry Cleaning Services	······································			<del></del>			*		
Printers/Newspapers/Photographers		*		·		<del></del>		<del></del>	
Ship Builders		*		· A		_ <del></del>			
Manufacturing/Nachline Shops				···	·	·			*
Energy Sources/Utilities		· · · · · · · · · · · · · · · · · · ·		······································					*
Radio Stations				·			`		*
PUBLIC SERVICE				•			•		
Security			<del></del>						*
\$chools/Universities		*							
CITY GOVERNMENT		*	. 6						



Table 7. Response to Adequacy of Employee Preparation

QUESTIONNAIRE ITEM	RESPONSE									
Are your present employees adequately	YE	S	N	0	NO RESPONSE					
prepared in?	Frequency		Frequency	*	Frequency	*				
Basic Skills (Reading, Speiling, Maths) Technical Skills Management Skills Work Attitude Sense of Personal Responsibility Ability to Get Along with Co-workers	323 314 288 314 306 378	80.7 78.5 72.0 78.5 76.5 94.5	76 66 103 81 87 19	19.0 16.5 25.7 20.2 21.7 4.7	1 20 1 5 7 3	0.2 5.0 0.2 1.2 1.7 0.7				
				i						
			·							
	,									

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Table 8. Response to Anticipated New Jobs

QUESTIONNAIRE ITEM	RESPONSE									
Do you anticipate any new products or	YE	YES			NO RESPONSE					
services within the next 5 years that will create a need for new job positions?	Frequency	8	Frequency	*	Frequency	8				
	187	46.7	210	52.5	. 3	0.7				
Projected Experience Increased Job Demand Due to Changes in Products or Services (Based upon Five-Year Projections)  Computer Personnel Engineers Sales Personnel Nurses/Nurses Aides Secretaries Mechanics Electronic Technicians Machinists Assemblers										

Questions #6 & 7 indicate that only 2 types of businesses anticipate cutbacks in personnel within the next 5 years. Table 9 lists these businesses and the position titles which will be modified or eliminated. Table 11 shows these responses by occupational category.

Questions #8 & 9 show that 81.0% of the employers interviewed have had difficulty filling positions (Table 10). Table 12 lists the most frequently occurring difficult positions and the reasons for the difficulty in each case.

Question #10 asks the interviewee what recruitment sources are used to fill open positions. Table 13 shows the frequency and percentage distribution answer to each response option (response options were included only for the use of the interviewer in coding responses). This table indicates that most employers rely on newspaper advertising to fill open positions. Table 14 shows all the recruitment sources used by occupational category. The most frequent "other" responses are listed in Table 4.

Question #11, Table 15 indicates by frequency and percentage, that most new employees are oriented to their new job activities by a department head or supervisor. Table 16 shows who conducts orientation training within each occupational category. Table 4 lists most frequently occurring "other" responses.

Question #12 & 13 determined that 78.0% of the companies interviewed conduct supplemental training to upgrade employees (Table 17). Tables 18 and 19 show that most employers within each occupational category have department heads or supervisors conduct this training.

<u>Questions 14 & 15</u> indicate that 12 of the occupational categories surveyed feel that they have specific training needs that are not being met (Table 20). Table 20 lists these positions and the reasons for the difficulty in each case.

Questions #16 & 17 show that the majority of respondents have experienced high turnover of employees (Table 21). Table 21 shows the most frequently occurring positions and the reason for the high turnover in each case.

Question #18 indicates that 64.0% of all employers interviewed promote employees on the basis of performance evaluation (Table 22). In Table 23, the chart shows the responses to each option by occupational category.

Question 19, Table 25 shows that 90.7% of all employers interviewed try to fill management level positions from within whenever possible. Table 11 lists the responses to this question by occupational category.



### Table 9. Response to Anticipated Cutbacks

Do you anticipate any cutbacks in products or services that will modify or eliminate positions within the next 5 years?

Those businesses responding "Yes":

Descriptive Title

Mortuary Services

Energy Sources/Utilities



Table 10. Response to Difficulty in Filling Positions

QUESTIONNAIRE ITEM	,						
Are there any positions that you have	YES		N	0	NO RESPONSE		
	Frequency	ક	Frequency	8	Frequency	*	
	324	81.0	76	19.0	0	0.0	
		,		. •			
6		,	·			:	
	,						

#### Table 11. POSITIVE SURVEY RESPONSES

	Anticipated Cutbacks Within 5 years	Conduct Supplemental Training to Upgrade Employees	Any Specific Training Needs not being Met	with High	Fill Mgmt. Level Positions from within	Willing to Offer Incentives for New Training Program	Have Hired Handi- capped	Willing to Participate in Special Training for Handicapped	Affirmative Action Participant		
GRICULTURE	ı										٠,
urseries/Florists/Landscapers		*		*				*.	•		
axidermists .	ty.			٠.		:	•			· · · · · · · · · · · · · · · · · · ·	_
griculture Supplies & Services		A	*	14	*	*		*	*	<del></del>	
olf Courses/Country Clubs		*		*	*	1	······································	<del></del>		·	
ISTAIBUTIVE			ĸ	r				1	. :	,	
uto Dealerships/Auto Leasing  nks/Savings & Loans/Commercial		*	····	*	<u> </u>	· *	*			·····	_
1.					<u> </u>		*	<u> </u>	*	····	
stail Grocers/Wholesalers		*	*		*		*	*		· · · · · · · · · · · · · · · · · · ·	
od Services	· · · · · · · · · · · · · · · · · · ·	<del></del>	·	*	<u> </u>	<del></del>				*****	
itels/Restaurants/Night Clubs				*	*	-	·····	*		·····	
surance/Property Hanagement	·····	. *			*		*			**************************************	_
	<del></del>	*	·····	*	*	*	<del></del>		*	······································	_
al Estate/Land Development	<del></del>		***************************************		*		·	·	*	~~~~ <u>~</u>	_
		*	*		*			*	<u>*</u>		
<pre>ce Track/Amusements ucking/Moving/Delivery Services</pre>	<del></del>	*	*	*	*	*	*	·		····	
11. 11. 11. 11. 11. 11. 11. 11. 11. 11.		*	· · · · · · · · · · · · · · · · · · ·	*	* *		<del></del>	<u> </u>	*	······································	
partment Stores/Retail Businesse  ALTH  dical/Hospital		*			*		*	*		·	-
rtuary Services	*		*	*	*	<u> </u>	<u>. *</u>		*	····	
1E ECONOMICS		*			*		*	*		,	5
d/Cleaning Services	-	<u> </u>	<u> </u>		*		*			····	



## Table 11. POSITIVE SURVEY RESPONSES BY OCCUPATIONAL CATEGORIES

	Anticipated Cutbacks Within 5 years	Conduct 5 Supplemental Training to Upgrade Employees	Training Needs not	with	Positions	Incentives	Hired Kandi-	Willing to Participate In Special Training for Handicapped	Affirmative	
<u>OFFICE</u>		ı								
Accounting/Computer/Communications						*				1
Employment Services			*	*		*	*		*	- <del> </del>
Law Firms			*	*		*	*	*		
			*	*		*		<del></del>	-	
TRARE AUM LAIGHERMALAL										
TRADE AND INDUSTRIAL Electrical/A/C Repairs										
Airlines		*	<del></del>	*	*	·				
		*	<del></del>	*		<u> </u>	*			
Architectural Occupations		*		-	*		*	*	<u>*</u>	,
				<del></del>	*		*	*		
Pool Maintenance		*		*			*			<del></del>
Laundries/Ory Cleaning Services	<del></del>	*	*	*	*	*	*	*		
Printers/Newspapers/Photographers				ń	*		*	*		
Ship Builders	<del></del>	*	*	*	*		*		:	
Manufacturing/Machine Shops		*		*	*	* .	*	*		· · · · · · · · · · · · · · · · · · ·
Energy Sources/Utilities	* *	*		*	*.	4	*	*	*	<del></del>
Radio Stations		*	*	*	*		*		*	3
	3				-7	· · · · · · · · · · · · · · · · · · ·	*	<u>*</u>	*	<del>-,</del>
PUBLIC SERVICE Security	_	* 		*	•			rga j		•
Schools/Universities		*			*		*	<u> </u>	tı	
		*	<del>7</del>	*	*		*	*	*	<u> </u>
CITY GOVERNMENT	•	•			,				,	
	2			*	*	*	#	*	_*	
				•						



#### Table 12

#### Positions Most Difficult To Fill

#### Position

Office Personnel
Restaurant Personnel
Nurses
Sales
Management
Mechanics
Keypunch Operators
Electronic Technicians
Programmers
Machinists

#### Reason

Poor Skills
Transient
Poor pay, poor skills
Transient
Irresponsible
Poor pay, poor skills
Poor hours
Lack of applicants
Poor hours
Poor skills



Table 13. Response to Recruitment Sources

QUESTIONNAIRE ITEM	RESPONSE										
at recruitment sources do you use to	YE	:S	МО		NO RESPONSE						
11 positions?	Frequency	2	Frequency	<b>%</b>	Frequency	* **					
ivate Employment Agencies orida State Employment Services wspaper Ads ployee Referrals llege, High School, or Technical hool Placement Offices ofessional Publications her Public Agencies her	98 168 344 142 118 31 14 92	24.5 42.0 86.0 35.5 29.5 7.7 3.5 23.0	301 231 55 257 281 368 385 307	75.2 57.7 13.7 64.2 70.2 92.0 96.2 76.7	1 1 1 1 1	0.2 0.2 0.2 0.2 0.2 0.2					
		-•		,	7						
				6							

### Table 14. Response to Recruitment Sources by Occupational Category WHAT RECRUITMENT SOURCES DO YOU USE TO FILL POSITIONS?

	Private Employment Agencies	Florida State Employment Service	Newspaper Ada	Employee Referrals	College, H.S. or Technical School Placement Office	Professional Publications	Other Public Agencles	Other
AGRICULTURE				. ,		50.0	•	
Nurseries/Florists/Landscapers	*	*	* * * * * * * * * * * * * * * * * * *					
Texidermists	:		*	<b>*</b>	Ř	·		
Agriculture Supplies and Services	*	*	*	*	*	5,		*
Golf Courses/Country Clubs			*	*	*			
DISTRIBUTIVE								
Auto Dealerships/Auto Leasing			*					,î
Banks/Savings & Loans/Commercial	*		*	*			:	
Stock Brokers		*	*	<b></b>				
Retall Grocers	· · · · · · · · · · · · · · · · · · ·	*	*				. 'a	
Food. Services	*	*	ᆄ		<b>*</b>			
Hotels/Restaurants/Night Clubs			*	4	*		<del></del>	, ,
Insurance/Property Management	*	*	<b>*</b>	*				
Petroleum Services						**************************************	.,	*
Real Estate/Land Development		ήŧ	*					*
Race Track/Amusements		*	*	,	**************************************	**************************************	<del></del>	
Trucking/Moving/Delivery Services			*	*	**************************************	<del>/////////////////////////////////////</del>	<del>*</del>	<u> </u>
Department Stores/Retail Businesses			<b>*</b>	<del></del>	*	······································		
1					······································	<del></del>		<del></del>
<u>TEALTH</u>		6						
ledical/Hospital			*					,
fortuary Services	* .		*****					
IOME ECONOMICS							·.	
laid/Cleaning Services			**	*				
						····		



## Table 14. Response to Recruitment Sources by Occupational Category WHAT RECRUITMENT SOURCES DO YOU USE TO FILL POSITIONS?

	Private Employment Agencies	Florida State Employment Service	Newspaper Ads	Employee Referrals	College; N.S. or Technicai School Placement Office	Professional Publications	Other Public Agencies Oth
OFFICE	•			k "5	1	**************************************	
Accounting/Computer/Communications					.2		٠.,
Employment Services	,			····	*	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	•
Law Firms		\ .	*	*		^	*
		·	·	——— <u>—</u>		·····	*
TRADE AND INCUSTRIAL							,
Electrical/A/C Repairs			*	-	•		
Airlines		1	*	····	<del></del>	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
Construction	1		*	·····		······	*
Architectural Occupations					<del></del>	·	
Pool Haintenance	. *	*	<u>*</u>	·	<del></del>	*	
Laundries/Dry Cleaning Services	*		<i>Y</i>	· · · · · · · · · · · · · · · · · · ·		······	
Printers/Newspapers/Photographers			***************************************	*		***************************************	<u>*</u>
Ship Builders		**************************************	*			·····	
Manufacturing/Machine Shops		*	t	n.		·····	
Energy Sources/Utilities		*	*	····	<del></del>	·····	
Radio Stations		*		<del>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</del>	* ,	·····	5
				<del>, , , , , , , , , , , , , , , , , , , </del>		······································	*
PUBLIC SERVICE			ŧ		5 A		
Security	,		t	Ś			•
ichools/Universities				····		······	, , , , , , , , , , , , , , , , , , ,
				V		······································	
TTY GOVERNMENT				1	•		
		<u> </u>	*	<u>*</u>	,	<b>^</b>	***
						7	
		1			1		, <b>*</b>



Table 15. Response to Orientation of New Personnel

QUESTIONNAIRE LITEM	RESPONSE								
Who currently orients your new	YE	S	NO		NO RE	SPONSE			
personnel before they begin the job?	Frequency	<u> </u>	Frequency	ኔ	Frequency	*			
Personnel Manager Training Director Department Head or Supervisor Co-Workers Other	99 42 266 22 75	24.7 10.5 66.5 5.5 18.8	301 358 134 378 325	75.2 89.5 33.5 94.5 81.3	0 0 0 0 0	0.0 0.0 0.0 0.0 0.0			

### Table 16. Response to Orientation of New Personnel by Occupational Category WHO CURRENTLY ORIENTS YOUR NEW PERSONNEL BEFORE THEY BEGIN THE JOB?

	Personnel Manager	Training Director	Department Head or Supervisor	Co-workers	Other
AGRICULTURE					1
Nurseries/Florists/Landscapers			k	_	
Texidermists				*	
Agriculture Supplies and Services			*		*
Golf Courses/Country Clubs			*		
DISTRIBUTIVE					
Auto Dealerships/Auto Leasing	·····		*		
Banks/Savings & Loans/Commercial		·		*	
Stock Brokers	*	*		····	
Retail Grocers			*		
Food Services	*	,	<u>*</u>	<del></del>	<del></del>
Hotels/Restaurants/Night Clubs			*		<del></del>
Insurance/Property Management	:		<u></u> *	<u></u>	
Petroleum Services		<u></u>	*	· · · · · · · · · · · · · · · · · · ·	*
Real Estate/Land Development	<u>*</u>		*		· · · · · · · · · · · · · · · · · · ·
Race Track/Amusements			<u> </u>	<del></del>	
Trucking/Moving/Delivery Services	······································		*		
Department Stores/Retail Businesses	*				
HEALTH					
Medical/Hospital			· yty	······································	
Mortuary Services	*. *		· · · · · · · · · · · · · · · · · · ·	<del></del>	*
HOME ECONOMICS					
Meid/Cleaning Services	5		*	•,	*
,	***			· · · · · · · · · · · · · · · · · · ·	



Table 16. Response to Orientation of New Personnel by Occupational Category WHO CURRENTLY ORIENTS YOUR NEW PERSONNEL BEFORE THEY BEGIN THE JOB?

Training

Director

Personnal

Manager

Department

Supervisor

Other

Co-workers

Head or

	marks of the same of the				
					•
DFFICE					
DELICE					
Accounting/Computer/Communications			*		
Imployment Services					π
.aw Firms			*	*	*
TRADE AND INDUSTRIAL					
Electrical/A/C Repairs	·	·	*		
Airlines			*		
Construction		· · · · · · · · · · · · · · · · · · ·	*		
Architectural Occupations	*			······································	
Pool Maintenance	*			**************************************	
			<del> </del>	<del></del>	
_aundries/Dry Cleaning Services	<u>*</u>	· · · · · · · · · · · · · · · · · · ·	*	······································	<del></del>
Printers/Newspapers/Photographers			*		
ihlp Builders			*		
lanufacturing/Machine Shops			*	¹ <sub>K</sub>	
nergy Sources/Utilities			*		
ladio Stations		*	*		
1101.140 45011145					
UBLIC SERVICE					
ecurity			<u>*</u>		
chools/Universities			*		
ITY GOVERNMENT		·····	*	<del></del>	<del></del>



Table 17. Response to Current Supplemental Training

QUESTIONNAIRE ITEM		RESPONSE							
Do you conduct supplemental training	YES	YES		NO		NO RESPONSE			
to upgrade employees?	Frequency	ઢ	Frequency	<u> </u>	Frequency	૪			
	312	78.0	86	21.5	2	0.5			
					1				
		,							
$\lambda$									



Table 18. Response to Type of Personnel Conducting Supplemental Training

QUESTIONNAIRE ITEM	RESPONSE							
Who currently conducts supplemental	YE	S	NO		NO RE	SPONSE		
training? °	Frequency	8	Frequency	2	Frequency	*		
Personnel Manager Training Director Department Head or Supervisor Co-Workers Company School within Broward County Company School outside Broward County Outside Agency Other	34 51 174 37 31 30 35 81	8.5 12.7 43.5 9.2 7.7 7.5 8.7 20.2	285 268 145 282 288 289 284 238	71.2 66.9 36.2 70.5 72.0 72.2 71.0 59.5	81 81 81 81 81 81	20.2 20.2 20.2 20.2 20.2 20.2 20.2		

### rable 19. Response to Type of Personnel Conducting Supplemental Training by Occupational Category WHO CURRENTLY CONDUCTS SUPPLEMENTAL TRAINING?

	Personnel Manager	Training Director	Department Head or Supervisor	Co-workers	Company School Within Broward County	Company School outside B. ward County	Outside Agency	Other
AGRICULTURE								
Nurserles/Florists/Landscapers			*			·····	*	
Taxidermists								
'Agriculture Supplies and Services					*		*	*
Golf Courses/Country Clubs	<del></del>		<b>h</b>					
DISTRIBUTIVE								
Auto Dealerships/Auto Leasing						*		
Banks/Savings & Loans/Commercial			*					
Stock Brokers	*	ورحوطي والمراجع المارية	*	*	·	· . · · · · · · · · · · · · · · · · · ·	<del></del>	
Retail Grocers			*		<del></del>		_ <del></del>	<del></del>
Food Services	<u>*                                    </u>		π					
Hotels/Restaurants/Night Clubs		· · · · · · · · · · · · · · · · · · ·	<u> </u>					
Insurance/Property Management					<del></del>		<del></del>	·
Petroleum Services	·	<del></del>		·		· · · · · · · · · · · · · · · · · · ·	······································	*
Real Estate/Land Development		<del></del>	*		<del> </del>			
Race Track/Amusements		·	······································	*				
Trucking/Moving/Delivery Services	<del></del>		*			*		
Department Stores/Retail Businesses				<del></del>	<del></del>	<del></del>		
HEALTH								
Medical/Hospital			<u>*</u>	···			· · · · · · · · · · · · · · · · · · ·	
Mortuary Services	<del></del>				*	<del>*</del>		
IDME ECONOMICS								
teld/Cleaning Services	<del></del>		*	<u> </u>		·		· · · · · · · · · · · · · · · · · · ·
				€	0		,	



Table 19. Response to Type of Personnel Conducting Supplemental Training by Occupational Category
WHO CURRENTLY CONDUCTS SUPPLEMENTAL TRAINING?

Department

Company

School within Company

outside

School

	Personnel Manager	Training Director	Head or Supervisor	Co-workers	Broward County	Broward County	Outside Agency	Other
OFFICE								
Accounting/Computer/Communications			*		<u>danggang dinggang</u> an danggang, <del>siy</del> dinang			
Employment Services							-	*
Law Firms ,	<del>,</del>					<del>- 7.1</del>	<del> </del>	*
TRADE AND INDUSTRIAL								
Electrical/A/C Repairs			*					
			*		*		*	*
Construction	5.000		*					
Architectural Occupations								
Pool Maintenance	*				<del></del>			
Laundries/Dry Cleaning Services	*		: ::		· .— . <u>— .— .— .— .</u>	, <del>, , , , , , , , , , , , , , , , , , </del>		*
Printers/Newspapers/Photographers			<b>*</b>		·			
Ship Builders	الأواد والكافر والمالات		:					*
Manufacturing/Machine, Shops		<del></del>	*		·			·····
Energy Sources/UtilIties		*	<u>*</u>			*		
Radio Stations	·						*	
PUBLIC SERVICE								
Security					<del> </del>			
Schools/Universities			-				<del>,</del>	<del></del>
CLTY GOVERNMENT		ennelling a till til ble skrivet skylddingspara						



Table 20. Response to Unmet Training Needs

QUESTIONNAIRE ITEM	RESPONSE							
Do you have any specific training needs	YES		NO		NO RESPONSE			
That are not being met?	Frequency	8	Frequency	<u></u> %	Frequency	/		
	149	37.2	248	62.0	3	0.7		
	4							
•					·			
-				ı				
					ļ			

Table 21. Response to High Employee Turnover

	position(s) with a	VEC		RESPONSE								
high turnover of	Do you have any position(s) with a		YES		NO		ONSE					
high turnover of employees?		Frequency	Z	Frequency	<b>%</b>	Frequency	8					
		285	71.2	114	28.5	I	0.2					
Y												
Positions with h	igh Turnover and Reasons											
Position	Reason											
Restaurant	Transient, seasonal, poor attitudes											
Sales	Transient, lack of loyalty											
Secretarial Nursing	Transient, poor pay Poor pay, lack of loyalty											
Bank Telling	Transient, poor pay						٠					
			į									

Table 22. Response to Employee Promotion

QUESTIONNAIRE ITEM		RESPONSE							
How do employees advance within	YES		NO	NO		SPONSE			
the company?	Frequency	3	Frequency	*	Frequency	%			
Seniority Additional on the job training Further outside schooling Promotion on merit Performance Evaluation Testing Other	49 100 43 219 256 9 45	12.2 25.0 10.7 54.7 64.0 2.2 11.2	350 299 356 180 143 390 354	87.5 74.7 89.0 45.0 35.7 97.5 88.4	1 1 1 1 1 1	0.2 0.2 0.2 0.2 0.2 0.2			





## Table 23. Response to Employee Promotion by Occupational Category HOW DO EMPLOYEES ADVANCE WITHIN THE COMPANY?

	Seniority	Additional on the job Training	Further Outside Schooling	Promotion on Merit	Performance Evaluation	Testing	Other
AGRICULTURE							
Nurseries/Florists/Landscapers	i,			*	*	,	
Taxidermists		*		*			
Agriculture Supplies and Services		*		*	*		
Golf Courses/Country Clubs				· <del></del>	*		
DISTRIBUTIVE							
Auto Dealerships/Auto Leasing		سيب سند الشريبية الله ويروساب الب		π	*		النبيث ومسوو
Banks/Savings & Loans/Commercial				*	*		
Stock Brokers	*		<del></del>	*	*	<del></del>	*
Retail Grocers	maringaning sa anjara sa ing palabasa sa	A PROPERTY AND PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT ASSESSMENT ASSESSMENT AS ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSME	- 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10	*	<u> </u>		
Food Services	· · · · · · · · · · · · · · · · · · ·				*		
Hotels/Restaurants/Night Clubs		ميندي سني سيب شانني		- tc	*		
Insurance/Property Management	,		<del></del>	*	<u> </u>		
Petroleum Services	<del></del>	4	<del></del>	*	*		<del></del>
Real Estate/Land Development	,			*	<u>*</u>	· · · · · · · · · · · · · · · · · · ·	
Race Track/Amusements					7,		
Trucking/Moving/Delivery Services			<del></del>	<del> </del>	*		
Department Stores/Retail Businesses				*	; * <del>*</del>		
HEALTH							X X
Nedical/Hospital  Nortuary Services			*	*			<del></del>
UNI FREIA SELAICOS			· · · · · · · · · · · · · · · · · · ·	<u> </u>		<u> </u>	· · · · · · · · ·
HOME ECONOMICS Haid/Cleaning Services				*	*		



### Table 23. Response to Employee Promotion by Occupational Category HOW DO EMPLOYEES ADVANCE WITHIN THE COMPANY?

	Seniority	Additional on the Job Training	Further Outside Schooling	Promotion on Marit	Performance Evaluation	Yesting	Other
1							
OFFICE	1						
Accounting/Computer/Communications			,	*	*		
Employment Services					>1	1 <u></u>	.1.
Law Firms		, ,	···	*	*		*
TRADE AND INDUSTRIAL							
Electrical/A/C Repairs					*		
Airlines					<b>*</b>		
Construction				*	*		<del>*************************************</del>
Architectural Occupations						<del></del>	Vine artificities e aparagamente
Pool Maintenance					*	**************************************	<del>~~~</del>
aundries/Dry Cleaning Services			*	*	*	**************************************	
rinters/Newspapers/Photographers				*	<del>/</del>		
ihlp Builders				*	*		
lanu acturing/Machine Shops				<b>*</b>	*	· · · · · · · · · · · · · · · · · · ·	•
nergy Sources/Utilities	*	*		*	*	، نفی <u>ب</u> و <del>بانه به ماکندین ناست . ۲</del>	
adio Stations					<del></del>	· · · · · · · · · · · · · · · · · · ·	
						·	
UBLIC SERVICE							
scurity				:\ <del>'</del>			
chools/Universities			<b>π</b>	*	· (12)		<b>†</b>
A Company of the Comp						أنفت ويجالون والكالمان المتناوة	
ITY GOVERNMENT				*			
5 .			<del></del> ,	, , , , , , , , , , , , , , , , , , ,	*		



Questions #20 & 21 ask each employer interviewed whether or not they are interested in having new programs developed for their specific needs. Fifty-six percent of the companies are interested in new program development (Table 25). Table 26 shows by frequency and percentage distribution, where employers prefer to locate the training sites, and Table 27 shows these preferences by occupational category. "Other" responses are shown in Table 4.

Question #22 asks what incentives the employers currently offer to their employees for taking further schooling or training. Table 28 shows by frequency and percentage distribution that 50.0% provide company payment. Table 30 shows incentives offered within each occupational category.

Questions #23 5 24 show that 41.2% of those who would like new training programs, are willing to offer their employees incentives for taking the new training (Table 29). Tables 31 and 32 show by frequency and percentage distribution, and by occupational category, that company payment and possible subsequent promotion would be the most frequent types of incentives provided.

Question 25, (Table 33) shows that 64.2% of the employers in the survey have hired handicapped persons. Many of the employers volunteered information on the nature of the handicaps. These handicaps are listed in Table 33. Table 11 shows which occupational categories have hired the handicapped.

Question #26 shows that 37.7% of the companies would be willing to participate in special training programs for the handicapped, but with reservations based upon the nature of the handicap (Table 34). Table 11 lists occupational categories willing to participate.

Question #27 shows that 51.7% of all survey respondents have an Affirmative Action Plan (Tabl: 35). Table 11 shows which occupational categories have such a plan.

Table 36 is a summation of county-wide results to each questionnaire item.

The next set of tables appear in Appendix K and are titled Projected Job Demand, Educational and Experience Requirements by Occupational Category Based Upon 2-Year Projections. These tables show the job titles and positions within each occupational category in which the employers predicted the largest growth within 2 years. Employers also indicated the minimum education level and experience requirements for each job title. The column headed "Minimum Education Required" contains information which shows the range of education which each company may require. This information may represent a range in education from no minimum through graduate work or professional degree. The final column, "Experience Required" indicates whether or not the majority of employers in that category require previous experience.

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Table 24. Response to Filling of Management Positions

QUESTIONNAIRE ITEM	RESPONSE						
If you have a management level position	YES		NO		NO RESPONSE		
open do you try to fill it	Frequency	7	Frequency	<b>%</b>	Frequency	*_	
From within	363	90.7	34	8.5	3	0.7	

Table 25. Response to Interest in New Training Programs

QUESTIONNAIRE ITEM	RESPONSE							
Would you be interested in having any of the educational agencies in Broward County such as, universities, community	YES		NQ		NO RESPONSE			
	Frequency	*	Frequency	%	Frequency	%		
colleges, technical schools or public schools, establish training programs to meet your needs?	224	56.0	167	41.7	9	2.2		
·								

Table 26. Response to Training Site Preference

QUESTIONNAIRE ITEM	RESPON	SE
Where would you prefer that this training take place?	Frequency	ðe.
On Site At one of the Colleges or Schools Other No Response	79 120 20 181	19.7 30.0 0.5 45.2
	V	
,		



# Table 27. Response to Training Site Preference by Occupational Category WHERE WOULD YOU PREFER THAT THIS TRAINING TAKE PLACE?

·	•				At one o		•
	<i>t</i>			. On Site	Colleges or Schoo	ls Other	No Response
AGRICULTURE				,	*************		110 ANGOLISM
Nurseries/Florists/Landscapers		i					
Taxidermists	•		· · · · · · · · · · · · · · · · · · ·			<u>,                                    </u>	*
Agriculture Supplies and Services					· · · · · · · · · · · · · · · · · · ·		*
Golf Courses/Country Clubs				<del></del>			*
,				*****			*
DISTRIBUTIVE							
Auto Dealerships/Auto Leasing					*		
Banks/Savings & Loans/Commercial						·	*
Stock Brokers	<u> </u>		***	<del>-</del>			*
Retail Grocers		<del></del>	<del></del>	<del></del>	·		*
Food Services							
Hotels/Res'taurants/Night Clubs		<del></del>					
Insurance/Property Management		· · · · · · · · · · · · · · · · · · ·					*
Petroleum Services					*		
Real   tate/Land Development	· .			——————————————————————————————————————	<del></del>		*
Race Track/Amusements				······································	<del></del>		*
Trucking/Moving/Delivery Services			<del></del>	<u> </u>		· · · · · · · · · · · · · · · · · · ·	
		· · · · · · · · · · · · · · · · · · ·					*
Department Stores/Retail Businesses	1		<del>\</del>				*
EALTH							
						·	!
edical/Hospital				*			•
ortuary Services		· · · · · · · · · · · · · · · · · · ·					· #
) . DHE ECONOMICS			,		1		~~~
	1	•	/		;		
aid/Cleaning Services							n
	•						



## Table 27. Response to Training Site Preference by Occupational Category WHERE WOULD YOU PREFER THAT THIS TRAINING TAKE PLACE?

•	0n <u>51te</u>	At one of the Colleges or Schools	Other	No Response
OFFICE	r	,		•
Accounting/Computer/Communications	·	*		
Employment Services		*		
Lew Firms		*		
TRADE AND INDUSTRIAL				
Electrical/A/C Repairs	*			
Allrilines	*			
Construction			<del></del>	**************************************
Architectural Occupations			· · · · · · · · · · · · · · · · · · ·	**************************************
Pool Maintenance	*			
Laundries/Dry Cleaning Services	*			
PrInters/Newspapers/Photographers	,	*		
Ship Builders				*
Manufacturing/Machine Shops				
Inergy Sources/Utilities	*			
ladio Stations				*
UBLIC SERVICE				
ecurity				*
chools/Universities	•			*
·				
ITY GOVERNMENT		à		*



Table 28. Response to Current Incentives for Training

QUESTIONNAIRE ITEM	RESPONSE							
What incentives do you corrently offer for employees taking for their training?	Y	S	NO		NO RESPONSE			
	Frequency	<b>.</b>	Frequency	%%	Frequency	<b></b> %		
Release time from wo. Company payment Possible subsequent promotion None Other	29 200 134 117 29	7.2 50.0 33.5 29.2 7.2	367 196 262 279 366	91.7 49.0 65.5 69.7 91.5	4 4 4 5	1.0 1.0 1.0 1.0		

Table 29. Response to Current Incentives for Training by Occupational Category

QUESTIONNAIRE ITEM		RESPONSE							
Would you be willing to offer incentives for new training programs	YES		No		NO RESPONSE				
developed by the educational agencies in Broward County?	Frequency	*	Frequency	8	Frequency	8			
	165	41.2	72	18.0	163	40.7			
					÷				

Table 30. Response to Current Incentives for Training by Occupational Category WHAT INCENTIVES DO YOU CURRENTLY OFFER FOR EMPLOYEES TAKING FURTHER TRAINING?

	Release Time from Work	Company Payment	Possible Subsequent Promotion	None .	Other
AGRICULTURE	,				•
Nurserles/Florists/Landscapers	:	*		*	
Taxidermists			*		
Agriculture Supplies and Services	*	*	*	· · · · · · · · · · · · · · · · · · ·	*
Golf Courses/Country Clubs				*	
					_
DISTRIBUTIVE		,			
Auto Dealerships/Auto Leasing	·	*			
Banks/Savings & Loans/Commercial		<b>*</b>			·
Stock Brokers		٠*	*		
Retall Grocers				*	
Food Services				* ,	
Hotels/Restaurants/Night Clubs				<del></del>	
Insurance/Property Management	:	*	· · · · · · · · · · · · · · · · · · ·		
Petroleum Servicas		*`	*		**
Real Estate/Land Development		* *		*	
Race Track/Amusements				*	
Trucking/Moving/Delivery Services		*			
Department Stores/Retail Businesses		· · · · · · · · · · · · · · · · · · ·		*	
HEALTH	-	ā			
Medical/Hospital		*			
Mortuary Services	······································		····	*	<del>~~~</del>
HOME ECONOMICS					
Maid/Cleaning Services		<u>*</u>		*	



# Table 30. Response to Current Incentives for Training by Occupational Category WHAT INCENTIVES DO YOU CURRENTLY OFFER FOR EMPLOYEES TAKING FURTHER TRAINING?

	Release Time from Work	Company Payment	Possible Subsequent Promotion	None	Other
OFFICE					
Accounting/Computer/Communications		•	:		
Employment Services		*	*		د
Law Firms			*		
	<del></del>			···	
TRADE AND INDUSTRIAL				ŧ	
Electrical/A/C Repairs					
Airlines				*	<u></u>
Construction		<u> </u>	<del></del>		
Architectural Occupations					
Pool Maintenance		<del></del>			*
Laundries/Dry Cleaning Services	·				*
rinters/Newspapers/Photographers	<u> </u>	*	<u> </u>	<del></del>	
hip Builders			*		
anufacturing/Machine Shops		<del></del>	*	*	
nergy Sources/Utilities					
adio Stations		<u>*</u>	*		
				*	
BLIC SERVICE					
CUC1ty	•				
hools/Universities		<del></del>		*	_
		·			
TY GOVERNMENT					
22 - 100 (40)		<u></u>			
			<del>, , , , , , , , , , , , , , , , , , , </del>		
	<b>5-</b> -			4.5	



Table 31. Response to Types of Incentives for New Training Programs

QUESTIONNAIRE ITEM	RESPONSE						
What types of incentives would you	<u> </u>	YES		NO		NO RESPONSE	
offer?	Frequency	*	Frequency	*	Frequency	*	
Release time from work Company payment Possible subsequent promotion None Other	21 118 72 15 33	5.2 29.5 18.0 3.7 8.2	162 65 111 168 151	40.5 16.2 27.7 42.0 37.7	217 217 217 217 216	54.2 54.2 54.2 54.2 54.0	

Table 32. Response to Types of Incentives for New Training Programs by Occupational Category
WHAT TYPES OF INCENTIVES WOULD YOU OFFER?

		Release Time from Work	Company	Possible Subsequent		
	e .	=	Payment	Promotion	None	Other
AGRICULTURE					•	i
Murseries/Florists/Landscapers						
Taxidermists						
Agriculture Supplies and Services		*	*	45		*
Golf Courses/Country Clubs						
DISTRIBUTIVE						
Auto Dealerships/Auto Leasing		·				
Janks/Savings & Loans/Commercial		***	····	:	<del></del>	
itock Brokers				*	<del></del>	
letall Grocers						·
Food Services					*	<del></del> _
lotels/Restaurants/Night Clubs						
nsurance/Property Management						
etroleum Services						,
eal Estate/Land Development						
ace Track/Amusements						*
rucking/Moving/Defivery Services						
epartment Stores/Retail Businesses			*******			
		e.				
EALTH					•	
edical/Hospital	· · · · · · · · · · · · · · · · · · ·		*			
ortuary Services						
No requeste						
ME ECONOMICS						
ild/Cleaning Services			<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>	*	···	



Table 32. Response to Types of Incentives for New Training Programs by Occupational Category WHAT TYPES OF INCENTIVES WOULD YOU OFFER?

		Release Time from Work	Company Payment	Possible Subsequent Promotion	Hone	Other
OFFICE						
Accounting/Computer/Communications			*	·		
Employment Services				. *		
Law Firms			ж	*		
TRADE AND INDUSTRIAL						
Electrical/A/C Repairs	-					
Airlines		*	*	*		-
Construction						
Architectural Occupations		*** <u>***</u>				
Pool Haintenance					<del></del>	*
Laundries/Dry Cleaning Services			*	*	<del></del>	
Printers/Newspapers/Photographers		<del></del>		····	<del></del>	
Ship Builders						
Manufacturing/Machine Shops					<del></del>	
Energy Sources/Utilities		<del></del>	*	*	<del></del>	
Radio Stations						
PUBLIC SERVICE						
iecurity	•					
ichools/Universities		<del>~~~</del>			<del></del>	
			<del></del>		<del></del>	
HTY GOVERNMENT			***			
		<del>~~~~</del>	<del>*************************************</del>		<del></del>	



Table 33. Response to Hiring the Handicapped

QUESTIONNAIRE ITEM	RESPONSE					
Have you ever hired any handicapped	YES		NO		NO RESPONSE	
persons?	Frequency	*	Frequency	*	Frequenyo	. %
i .	257	64.2	137	34.2	6	1.4
•						
Persons have been hired with the following handicaps:						·
Physical handicaps Deafness Missing Limbs Blindness Mental Handicaps				·		, ,
Epileptic						
						,

Table 34. Response to Willingness to Train the Handicapped

QUESTIONNAIRE ITEM	RESPON	SE
Would you be willing to participate in special training programs to train handicapped persons for jobs in your company?	Frequency	፟፟፟፟፟
Definitely would you participate Might participate but with reservations Undecided Would you prefer not to participate Definitely do not want to participate No response	98 151 73 54 6 18	24.5 37.7 18.2 13.5 1.5 4.5

P

Table 35. Response to Affirmative Action Plan

QUESTIONNAIRE ITEM	RESPONSE					
Does your company have an Affirmative	e YES NO		NO RESPONSE			
Action Plan?	Frequency	* *	Frequency	*	Frequency	
	207	51.7	184	46.0	9	0.2
			()			
		•				
		-	·			
						:
			ı	/		

S. 14 . . . . .



## Table 36. County Wide Results to Questionnaire Items

# BUSINESS/INDUSTRY/GOVERNMENT FACT SHEET

Questionnaire Items	County-Wide Results
Person Interviewed	Manager
Most important quality looked for in Employee candidates	Dependabiļit
Are present employees adequately prepared for needs in :	
Basic Skills	
Technical Skills	Yes
Management Skills	Yes
Work Attitude	
Sense of Personal Responsibility	Yes
Ability to get along with co- workers	Yes
New products or services within	
next 5 years requiring new	,
personnel	Yes
41	3.
Anticipated cutbacks within 5 years	No
Positions that were difficult to	~ .es
Recruitment sources used to fill	
positions	Newspapers
Person who orients new personnel	Dapt. Head
Supplemental training to upgrade	
employees	Yes
Person conducting supplemental	
training	Dept. Head
Specific training needs not being met	No
Have positions with high turnover of employees	-Yes
How employees advance within the company	-Evaluation
E411 management lovel	
from within	-Yes
Interested in new tran	V
grams	-162

## Table 36.

Prefer training to take placeOn-Site	
Incentives currently offered employees for further trainingTuition pay	meņt
Willingness to offer incentives for	
new training programsYes	
Have hired handicappedYes	
Willingness to participate in	
special training programs for	
handicappedYes	
Affirmative Action participantYes	

Appendix L contains information regarding positions within each occupational category. The positions listed are those which, according to area employers, will have the highest percentage of growth over the next five years. The numbers listed under each occupational category represent the Florida Community College (ICS) codes and United States Office of Education codes for each type of occupation. Appendix E contains complete listings of all job titles employed in the respective occupational categories and the corresponding C.C. and U.S.O E. codes. Any job title not having these code numbers were added in by the employers.

Another objective of the study was to map the assessed training needs with educational agencies in Broward County already offering programs. Appendix J shows all the public and private schools in the county and the institutions of higher education in the surrounding area with indications (" concerning the programs currently being offered.

The third objective was to determine which of the educational institutions in the area could offer the needed training programs. Results of the study along with recommendations of the Broward Industrial Board and the Fort Lauderdale Area Chamber of Commerce for disseminating results appear in Chapter IV.

An analysis of variance (0.05 level of significance) and multiple regression analysis were run on the data by occupational category. Results indicated that there is no significant difference among occupational categories with regard to training needs.

### IV. Conclusions, Recommendations, and Implications

Many conclusions become evident from the survey results enumerated in the preceding chapter. The conclusions are listed below in order of the project research questions:

- 1. Existing training needs of major Broward County Employers (business, industry, and government) were determined as described in the Results and Appendices and lead to the conclusions that most Broward County employers:
- Instate "dependability" and "honesty" as the most important qualities among job candidates;
- Agree that employees have the ability to get along with co-workers and have adequate technical skills;
- Anticipate new products or services within the next five years that will demand new jobs;
- o not anticipate any cut backs in products or services that will by ify or eliminate positions the next five years;
  - experienced difficulty .illing some positions
- Use newspapers as the major recruitment cource;
- Utilize department heads/supervisors to orient new persor before they begin the job;
- Have department heads/supervisors conduct supplemental training to upgrade personnel;
- Advance employees within the companies by performance evaluation;
- Fill management-level positions from within;
- re interested in having educational agencies in Broward County establish training programs to meet their needs;
- Indicate preference for training class locations on-site;
- Offer company payment for tuition : employees for participation in supplemental training;
- Are willing to offer incentives such as: payment of tuition for completing training programs developed by the educational agencies in Broward County;
- Have hired handicapped persons and are willing to participate (with some reservations) in special training programs for the handicapped; and
- Half of them have an Affirmative Action Plan.



Many positions which are hand to fill and which have high turnover of employees are that way primarily because of low pay scales and poor working hours. Most of the positions do not require any specific technical skills for entry-level and result in the hiring of transient workers who often exhibit poor work attitudes and "lack of loyalty" Therefore, in many cases, the employment problems are not due to proper training by educational agencies but, rather, are caused by factors, such as low pay and poor working hours, in the field.

The following types of training were identified by employers as most needed in Broward County:

Type of Training: Positions Requir	Personal, Behavioral	Skill or Technical	Management
ing Training:	Nurses Secretaries Nome Health Aides	Waitresses Machinists Nurses Secretaries	Management Nurses Sales Home Health Aides
		Electronic- Technicians Tool & Die Makers Computer Personnel	

Minimum education required varies tremendously even within simple occupational job categories, and most positions require experience. Pased upon two-year projections, the highest projected demand croupations included the following:

Sales
Assemblers/Production
Managers
Waiters/Waitresses
Registered Nurses
Nurses Aides
Housekeeping Personnel
Secretaries
Bookkeepers
Cooks & Chefs

Changes in products and services were attributed as bringing need for changes in the training of the following types of personnel:

Computer/Keypunch Personnel
Engineers
Sales Perconnel
Nursos/Nu es Aides
Secretaries
Mechanics
Electronic Technicians
Machanists
Assemblers



- 2. Determination of which educational of noises in Broward County could best fulfill the training needs: the training needs are too numerous for one institution to fulfill. However, it appears that employers are very willing to assist the educational agencies with the development of the necessary training programs. Coordination among the vocational centers, public School Board, and colleges will also enhance the planning offerts for implementation strategies. Implementation must be the focus, since employers are becoming disenchanted with continual surveys and no follow-up.
- 3. Companies were informed of the results by means of a packet including a letter from the Project Director and Coordinator thanking them for their contributions, a copy of the "Training Needs Assessment" brochure, and a Fact Sheet listing county-wide results compared to those of their occupational category type. Direct reedback to respondents is the best method for fostering continued liaison between the college and the private sector. It enhances cooperation and builds confidence between the public and private sectors as well as furthering the College goal of meeting the needs of its constituencies.

#### Recommendations and Implications

The following steps are recommended:

- 1. Broward Community College personnel inform educational agencies of the Training Needs Assessment results.
  - a. Presentation of results should be made to the Broward County Vocational-Technical Coordinating Council;
  - b. Results should be sent to the Division of Community Colleges and the Division of Vocational Education of the State of Florida Department of Education, and to the regional state office;
  - c. Other community colleges and neighboring universities should be informed; and
  - d. Presentation of results be made to BCC's Board of Trustee .
- The BETA project, "Program Development for New Occupational Training," be endorsed by the BCC Beard of Trastees and implemented.
  - The project was proposed and the 11 l to BETA for October 1 1978, through September 1979, funding; and
  - b. The project was approved by BETA Council and contains the followin object ves:
    - (1) To form an advisory board among business, industry, local units of government and educ tional institutions in order to establish system for identification and prioritization of Broward County employer training needs and the systematic updating of those needs:



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- (2) To select the highest read priorities for each area (discipling and sector) and initiate course/program development;
  - (a) Conduct task analysis for all job titles as necessary;
  - (b) Do cruine job-entry level competencies;
  - (c) Translate competencies into curricula;
- (3) To conduct all necessary research for documentation of resources available for the derivery of new courses/ programs; and
- (4) To implement the new training programs.
- 3. Dialogue be maintained between the College and the employers in order to implement new training programs.

#### Observations

Numerous observations were made by project workers which were indirect extensions of the responses received to questionniare items, in a mitment observations are listed below:

- 1. Employes emphasize the importance of the "basics." In general, employes candidates well-trained in basic skills are much easier to train.
- 2. Employers differentiate between employees "over twenty-five" and these "under twenty-five" with regard to adequacy of basic skills and attitude toward work. Persons under twenty-five years of age including college graduates, are viewed as having poor basic skills and poor attitudes toward work. Some employers suggested that a course in work attitude should be taught in high school.
- 3. Much of the high turnover in employees is a result of the transient nature of the Southeast Florida population.
- 4. Many employers expressed the need for more communication regarding training programs offered by educational institutions in the county.
- 5. Employers believe that high school counselors have a tendency to advise of the away from technical programs and into more traditional eral arts disciplines.
- t. The Florian State Employment Service does not seem to screen employee candidates adequately.
- 7. Most recruitment for skilled workers is conducted in the North. Man/ companies do not even advertise in the South Florida area for job openings.
- 8. Many employers do not appear to know what is meant by an "Affirmative Action Plan" even though such a plan is required by law in companies with fifty or more employees.
- 9. Many employers who had hired handicapped persons stated that they turned on to be some of their most valued employees.



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APPENDICES



## Sector Sampling By Zipcodes

North Sector Zi	pcodes			
	33060 33062 33063 33064 33065	33066 33067 33068 33306 33308	33309 33319 33321 33334 33441	
Central Sector	Zipcodes			
	33301 33304 33305 33311 33312	33313 33314 33315 33316 33317	33322 33324 33325 33326 33328	33330 33331
South Sector Zip	ocodes			
	33004 33009 33020 33023	33024 33025 33026		





administrative offices 225 east las olas boulevard for! lauderdale, florida 33301

November 17, 1977

Dear Broward County Employer:

Broward Community College, as part of the effort in planning for responsiveness to community and learner needs, is conducting a county-wide training needs assessment in cooperation with the Fort Lauderdale Area Chamber of Commerce, Broward Industrial Board, and Broward Employment and Training Administration. The goal of the needs assessment is to aid the community in identifying training needs for upgrading personnel and to identify the institutions in the area which can best provide this training. The results of this effort will be carefully evaluated by the College Office of Institutional Research and Systems Flanning and findings will be disseminated to all participants.

We urge your participation in this endeavor to assist us in helping meet the training needs of our major employers Pers nal Interviews will be conducted by a Broward Community College representative and should take no more than half an hour. This individual will be contacting you soon to establish an appointment.

We look forward to your cooperation

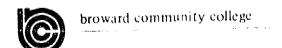
Sincerely

Mr. Richard G. Clark executive Director

Broward Industrial Board

Mr. Charles V. Emerson Executive vice President

Fort Lauderdale Area Chamber of Commerce



administrative offices 225 east las olas boulevard fort landerdale, florida 33301

cember 5, 1977

Dear Broward County Employer.

Recently you received a joint letter from the Broward Industrial Board and the Fort Lauderdale Area Chamber of Commerce requesting your cooperation in our Training Needs Assessment Project. The purpose of the project is to assess the training needs of Broward County's major employers and to determine which educational agencies could assist by developing training to meet the needs. This is the first cooperative attempt in Broward County by business, industry, and education to assess needs and develop training for new employees, and/or to supplement, upgrade or retain present employees. The project is funded and supported by the Broward Employment Training Administration.

I fervently hope that you will take part in this effort with us. We are asking that you agree to being interviewed for approximately half an hour in your office by a Broward Community College interviewer. Your responses will not be publicly divulged. Your specific needs will be assessed; you will receive a comparative analysis of your needs and the average needs of companies similar to yours; and you will be placed in contact with aducational agencies in the area which are best equipped to meet your needs. Even if you are pleased with your current training program, you should find the comparative analysis informative.

Kathleen Mann will be contacting you by phone for an interview sometime during the period of December through February. Analysis of results will take place in March and will be reported back to you during the period from Artil through June.

To assist us in assessing your current and future training needs, we would like for you to have completed the form attached to this letter which indicates the current numbers and types of employees you hire and your projections for one, two, and five years from now. The list was validated by business persons similar to yourself in your field. Your particular company may have some positions not listed or may not have all those listed. If this is the case, please write in your additional ones and leave blank those you do not have. The interviewer will pick the form up when she comes to interview you.



Again, the Broward Employment Training Administration, Broward Industrial Board, and Fort Lauderdale Area Chamber of Committee have joined us, Broward Community College, in asking your cooperation and participation in the Training Needs Assessment. We hope that you will agree to the interview which will help make this project a success. If you have any questions regarding the project, please do not hesitate to call me at (467-6700, Ext. 232). I am looking forward to your participation!

Sincerely,

Dr. Mantha Vlanos

Director of Institutional Research and Systems Planning

MV:ew Attach.

## Appendix D

C.C. CODE	DESCRIPTIVE TITLE	USOE CODE
normalista erita esta esta esta esta esta esta esta es		
21,0000	Nurseries/Florists/Landscapers	010000
21.0101	Taxidermists	010101
21.0200	Agriculture Supplies & Services	160200
21.0300	Golf Courses/Country Clubs	010300
22.0300	Auto Dealerships/Auco Leasing	040300
22.0400	Banks/Savings & Loans/Commerc	040400
22.0450	Stock Brokers	040406
22.0600	Retail Grocers/Wholesalers	040600
22.0700	Food Services	040700
22.1100	Houels/Restaurants/Nightcl ;	041100
2.1300	Insurance Companies/Property Management	041300
22.1600	Petroleum Services	041600
7:.1700	Real Estate/Land Development	041700
	Amusements/Race Tracks	041800
22,1900	Trucking/Moving/Delivery Services	041900
22.2000	Department Stores/Retail Businesses	042201
23.0000	Hospitals/Medical Services	070000
23.0909	Mortuary Services	160519
24.0205	Maid/Cleaning Services	090699
25.0100	Accounting/Computer/Communications	140100
25.0500	Employment Services	140600
25.9707	Law Firms	160516
26.0101	Electrical/Air londitioning Repairs	170102
26.0400	Airlines Occupations	170504





C.C. CODE	DESCRIPTIVE TITLE	USOE CODE
26.0100	Construction Occupations	1/0900
26.1011	Architectural Occupations	160103
26.1106	Pool Maintenance Services	171006
26.1600	Laundries/Dry Teaningvices	172500
26,1900	Printers/New: :s/Photographers	170800
26.2202	Ship Builders	171805
26.2300	Manufacturing/Machine Shops	171900
26.3201	Energy Sources/Utilities	171503
26.9907	Radio Stations	160600
27.0202	Security	172205
27.0300	Schools/Universities	090207
27.0800	City Government	00 כנבו
	Account the characteristic of the control of the characteristic and the control of the characteristic and the char	To get an action conjugated to the contract of
	b	y negocial security social construction and the security security security security security security security



		Appendix E
C.C. COL	DESCRIPTIVE TITLE	USOE CODE
21.0000	Market and an Imilant at Imilant at Imilant	,
21.0000	Nurseries/Florists/Landscapers	.010000
25 <b>.0</b> 805	Managers	1 140000
26.1702	Agricultural Foremen	140802
21,0305	Agricultural Mechanics	1,73103
22.0501	Floral Designers	010301
26.1703		,090506
21.0304	Grounds Superintendents	1.73104
26.1014	Irrigation Specialists	010305
	Laborers	170914
21.0504	Landscape Architects	010504
21.0306	Landscape Maintenance	010304
22.1901	Local Truck Drivers	041901
21.0301	Power Truck Operators	010301
22.1901	Sales Representatives	042204
25.0702	Secretaries	140702
25.0503	Shipping and Receiving Clerks	140306
21.0309	Small Machine Operators	010399
21.0603	Scil Conservationists	010601
25.0504	Stock Clerks	140307
22.0501	Floral Consultants	040501
		10301
		Ì
21,0101	Taxidermists	010201
25,0702	Secretaries	140702
25.0102	Bookkeepers	140102
25.0805	Office Managers	140801
25.0805	Managers	140802
•	Marine Taxidermists	
22.1901	Work Drivers	Ö41901
21 0200		' y 53 Swall 3
21,0200	Agriculture Supplies/Services	160200
	(Pest Control Technology)	
25.0805	OSS: W	
25.0102	Office Managers	140802
	Bookkeepers	140102
25.0702	Sacretaries	140702
22.2102	Telephone Solicitors	142205
22,2101	Sales Managers	042203
21.0213	Route Supervisors	160213
22.2103	Saleamen (Monthly service)	042204
21.0212	Termite Supervisors	160212
21.0214	Termite Control Salesmen	160214
,21.0211	Tent Crew	160211
21.0207	Subterranean Termite Termicians	160211
21.0210	Funigators	160210
21.0215	Lawn Control Salesmer	160215
21.0206	Lawn Technicians	160215
21.0205	Pest Control Technicians	
	=	160205



<u>c.c. con</u>	DESCRIPTIVE TITLE	USOE CODE
21.0300	Golf Courses/Country Clubs	010300
25.0805	Hanagers	140802
21.0507	- · · · · · · · · · · · · · · · · · · ·	010507
21.0506	1	010506
25.0102	l · · · · · · · · · · · · · · · · · · ·	140102
25.0102		140103
25.0702		110702
26.2907		173308
26.2904	Waitresses/Waiters	17230⁵
26.2906	· ·	<b>1723</b> 07
26.2905	Bartenders	172306
26.2901	Bakers	090406
26.2902	Cooks/Chefis	090405
22.1801	Health/Recreation Room Attendents	041804
21.0308	Golf Course Mechanics	010306
21.0504	Landscape Technicians	010504
26.1102	General Building Maintenance	171005
26.1100	Cust.cdial Services	171001
22.0300	Auto Dealerships	040300
25 <b>.</b> 08 <b>0</b> 5	Office Managers	140801
22.2004	Department Managers	042208
22.0412	Loan Managers	140816
22.2101	Sales Managers	042203
22.1901	Sales People	042204
22.2001	Purchasing Agents	042207
22.0100	Public Relations/Advertising Personnel	040101
25.0102	Bookkeepers . ·	140102
25.0103	Cashiers	140104
25.0201	Computer Operators	140203
25.0104	Offi <b>c</b> e Machine Operat <b>o</b> rs	140103
25.0702	Secretaries	140702
22.0408	Loan Secretaries	140509
22.9901	Telephone Operators	140403
25.0506	Title Clerks	140316
25.0302	File Clerks	140301
25.0902	Typists	140303
26.0309 26.0302	Automobile Parts Supervisors	040307
26.0308	Automobile Mechanics Service Advisors	170301
25.0504	Stock Clerks	170304
26.0101	Air Conditioning Mechanics	140307 170301
26.0305	Automobile Painters	170402
26.0307	Automobile Parts Sales	040305
26.0306	Automobile Trimmers and Installers	170403
26.1101	Housekeeping Personnel	171001
27.0202	Security Personnel	172205 -
26.0310	Porters/Get Ready	170404
26.0301	Body Shop Workers	170401
22.1901	Courtesy Driver/Truck	041901
		5

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<u> </u>	DESCRIPTIVE TITLE	USOE CODE
22.0300	outo Leasing	040300
25.080	Office Managers	140802
22.0100		040101
25.010	·	140102
25.020	•	140203
25.0104		140103
25.0702	· ·	140702
25.07d2 25.0103	1	140104
22.9901	· · · · · · · · · · · · · · · · · ·	140403
22.1802		041913
22.2001	•	042207
26.1702		171303
26.0302	i	170301
26 1101		171001
20.1101		041901
26.0408		170506
20,0400	LILE ACTIVIT	1.70500
22.0400	Bulks - Savings and Loan	040400
25.0805	Managers	140802
22.0413	Mortgage Officers	140514
22.0415	Loan Servicing Officers	140514
22,0414	Operations Officers	140515
25.0600	Personnel Managers	140600
22.0405	Head Tellers	140405
22.0416	Appraisers	140517
25.0107	Auditors	140105
25.0102	Bookkeepers	140103
25.0104	Office Machine Operators	140102
25.0105	Tellers	140103
25.0103	Cashiers	140104
25.0205	E.D.P. Managers	140206
25.0204	Systems Analysts	140201
25.0203	Programmers	140201
25.0806	Comptrollers	140106
25.0201	Computer Operators	140203
25.0306	Key Punch Operators	140313
25.0702	Secretaries	140702
22.0407	Collection Credit Clerks	140501
22.0408	Loan Processing Clerks	140501
22.0409	Loan Servicing Clerks	140510
25.0302	File Clerks	140310
25.0406	Receptionists	140402
25.0405	Couriers	140402
26.1101	Housekeeping Personnel	171001
27.0202	Security	172205
22.0418	Savings Counselors	140519
22.0419	Safe Deposit Clerks	140520
22.0420	In-House Clerks	140521
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C.C. CODE	DESCRIPTIVE TITLE	LICON CODE
	Ps - Connercial	040400
22.0400		140807
25.0807	Me '5	140807
22.0413	Hon Officers	140514
22.0410	Correspondent Bank Officers	140511
22.0412	Loan Officers	140513
22.0414	Operations Officers	140515
22.0411	Trust Officers	140512
25.0601	Personnel Managers	040101
22.0100	Advertising Personnel/Tublic Relations	1 140501
22.0405	Head Tellers	140206
25.0205	Electronic Data Processing Managers	140201
25.0204	Systems Analysts	140201
25.0203	Programmers	140202
25.0806	Comptrollers	140207
25.0206	Tape Librarians	140207
25.0201	Computer Operators	140203
25.0306	Key Punch Operators	14031 4
25.0305	Proof Machine Operators	1403 2
25.0904	Teletype Operators	140311 146404
25.0402	Correspondents	140502
25.0105	Tellers	140502
25.0102	Bookkeepers	140102
25.0103	Cashiers	140104
25.0702	Secretaries	140702
25.0903	Dictaphone Typists	140310
25.0902	Typists	140303
22.9901	Switchboard PBX	140403
22.0401	Payroll Clerks	140503
22.0402	Transit Clerks	140506
22.0403	Exchange Clerks	140506
22.0408	Loan Processing Clerks	140509
22.0406	Interest Clerks	140507
22.0404	Mortgage Clerks	140307
25.0302	File Clerks	140402
25.0406	Receptionists	140402
25.0405	Couriers	171001
26.1101	Housekeeping Personnel	平1 エハヘエ
1	Customer Service Representatives Miscellaneous Officers (Manager)	
	New Accounts Clerks	<b> </b>
	New Accounts Cierva	
<u>ስስ ለ</u> /ፎለ	Stock Brokers	040600
22.0450		
25.0702	Sales Assistant Secretary	140702
25.0102	Bookkeepers	140102
25.0102	Margin Bookkeeper	140102
25.0103	Cashiers	140104
25.0406	Receptionists	140402
_	Wire Operator	340004
25.0301	Duplicating Clerk	140304
25.0805	Managers	140801

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C.C. CODE	DESCRIPTIVE TITLE	USOE CODE
22,0600	Retail Grocers, Wholesalers	040600
25.0805 25.0807 22.0605 22.0601 25.0805 25.0702 25.0104 25.0302 12.0100 22.2001	Managers Branch Nanagers Stock Managers Weat Managers Produce Managers Office Managers Secretaries Office Machine Operators File Clerks Public Relations/Advertising Personnel Purchasing Agents	140802 140807 040608 040606 040605 140801 140702 140103 140301 040101 042207 140203
25.0201 25.0203 25.0601 26.0706 26.1102 26.0302 22.1901 22.1904 22.1903 26.1026 26.1703 26.1703 26.1101 26.2903 22.0606 25.0103 25.0504 22.0607 25.0102 26.1015 22.0608 22.1901 25.0503 26.2905	Computer Operators Programmers Personnel Workers Commercial Artists General Building Maintenance Mechanics Truck Drivers Warchouse Superintendents Warchouse Superintendents Warchousmen Forklift Operators Grounds Superintendents Housekeeping Personnel Meatcutters Meat Wrappers Cashiers Stock Clerks Produce Wrappers Bookkeppers General Production Packing Boys Sales People Shipping and Receiving Clerks Bar Personnel Koute People	140203 140202 140601 170701 171005 170301 041901 041915 041905 171109 173104 171001 172304 040610 140104 140307 040611 140162 170915 040612 042204 140306 172306
22.0700	Food Services	040700
25.0805 25.0102 25.0702 25.0104 25.0103 22.2001 22.1116 26.2905 26.2906 26.2902 26.2909 22.1121 26.2904 27.0202 26.1101 26.2902 26.2902 26.2902	Bookkeepers Secretaries Office Machine Operators Cashiers Purchasing Agents Parking Attendants Bartenders Bus Boys Cooks and Chefs Dishwasher Operators Food Checkers Waiters and Waitresses Security Personnel General/Building Maintenance Housekeeping Personnel Food Preparation Personnel Food and Equipment Handlers 100	140802 140102 140702 140103 140104 042207 041116 172306 172307 090405 172310 041121 172305 172205 171005 171001
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C.C. CODE	DESCRIPTIVE TITLE	USOE CODE
22.1100	Hotels	041100
22.1101	Hotel Managers and Assistants	041101
22.1104	Convention Manager	041104
22.1108	Reservations Manager	041108
22.1120	Storeroom Managers	041120
22.1105	Banquet Manager	0411.05
22.1117	Dining Room Manager	041117
26.1603	Laundry Managers	172507
20.2708	Ear Managers	172309
22.1115	Entertainment Director	041715
25.0102	Bookkeepers	140102
25.0702	Secretarios	1407/2
25.0104	Office Machane Operators	140103
22.1102	Hotel Front Office Clerks	041102
25.0307	Accounts Payable Clerks	140319
25.0308	Accounts Receivable Clerks	140320
25.0806	Comptroller	140106
25.0103	Cashiers	140104
	Auditors	140105
25.0107 22.9901	Telephone Operators	140403
·	Purchasing Agents	042207
22.2001		041109
22.1109	Reservations Clerk	042204
22.1901	Sales Representatives	17090.l
26.1001	Carpenters	170901
26.1007	Plunkers	170910
26.1005	Painters	171307
26.1002	Electricians	
26.0101	Air Conditioning Mechanics	170102
26.1102	General Maintenance	171105
21.0504	Landscapers	01 504
21.0508	Yard Maintenance	010508
26.1101	Housekeeping Personnel	171001
22.1111	Housemen	041111
• 22,1118	Heuse Steward	041110
22.1123	Stewar <b>d</b> Helpers	041122
22.1113	Porters	041113
22.1110	Maids	041110
22,1103	Bell Captains & Bellmen	041103
22.1106	Fool Attendents	041106
22.1107	Life Guards	041107
22,1116	Parking Attendents	041116
26.1604	Mangle Operators	172508
26.1602	Washer Operators	172503
22.1119	Banquet Steward	041119
26.2906	Bar Boys	172307
26.2905	Bar Tenders	172306
26.2902	Cooks and Chefs	090405
26,2909	Dishwasher Operator	1.72310
22.1121	Food Checkers	041121
26,2904	Waiters & Waitresses	172305
27.2002	Security Personnel	172205
22,1114	Doormen	041114
22.1112	<b>♥</b> Valets	041112
<b>⊚</b> ⁻7,0304	Gas Attendents 10 r	041601
FRÍC	Gas Attendents 101	
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	C.C. CODE	DESCRIPTIVE TITLE	USOE CODE
	22.1100	Restaurants/Nightelubs	041100
ı	25,0805	Managers	140802
	25.0102	Ucokkeepers	140102
	25.0702	Secretaries	140.02
	25.0104	Office Actine Operators	1.401.03
	25.0103	Cashiers	140104
	22.2001	Purchasing Agents	042207
	22.1116	Parking Attendants	041116
	26.2905	Bartenders	172306
	26.2906	Bus Loys	172307
	26.2902	Cooks and Chet	090405
	26.2909	Dishwasher Operators	172310
	22.1121	Food Checkers	041121
	26.2904	Waiters and Waitresses	172305
	27.0202	Security Personnel	172205
	26.1102	Ceneral/Building Maintenance	1.71.005
	26.1101	Housekeeping Personnel	171001
	26.2907	Hostesses	172308
	22.1901	Sales People	042204
		Entertainers	
*	26.2902	Grillmen	172302
,		Closers	
	26.2910	Counter help	
	26.2901	Bakegs	172301
	25.0504	Stock Room Help	140307
	23.1300	Insurance Companies/Property Management	041300
	25.0807	Agency Managers	140807
	22.2002		042203
	25.0805		140801
	25.0102	Bookkeepers	140102
	25.0702	Secretaries	140702
	25.0302	File Clerks	140301
	25.0902	'lypists	140303
	25.0406	Receptionists	140402
	22.2102	Telephone Solicitors	042205
	22.1306	Agency Trainers	041309
	22.1305	Field Trainers	041308
	22.1303	/ Underwriters	041306
	22.1307	Group Specialists	041310
	22.1308	Pension Specialists	041311
	22.1309	Pension Actuaries	041312
	22,1301	Claims Adjusters	041304
	22.1302	Claims Examiners	041305
	22.1304	Insurance Agents or Brokers	041307
	26.1101	Housekeeping Personnel	171001
	26.1102	General Maintenance	171005
	25.0101	Accountants/Comptrollers	140101
	22 1001	Tour Guides	0.40004
	22,1901	Sales People	042204
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c.c. 000	DESCRIPTIVE TITLE	USOE CODE
22,1600	Petroleum Services	041600
22,1000		140000
25,0805	Managers	140802
22.1901	Truck Drivers	041901
25,0702	Secretaries	140702
	Sales People	042204
22.1901	Clerk Typists	140303
25.0902	<u>u</u> -	171303
26,1702	Supervisors	
	Terminal Operators	041601
26 <b>.0304</b>	Station Attendants	041905
22.1903	Warchousemen	140804
25.0803	Office Assistant	170301
26.0302	Mechanics	140102
25.0102	Bookkeeper	140101
25.0101	Accountants	140202
25.0203	Frogrammer	
25,0601	Training Coordinators	140601
22,9901	Switchboard	140403
27.0103	Firemen	172201
26.2203	Tankermen	171806
26.2306	Welders	171909
27.0875	Painters	173275
26.1014	Laborers	170914
20.1014	Service Technician	
	Shift Leaders	
		ŧ
22.1700	Real Estate/Land Development	041700
05 0505	Managara	140801
25.0805	Managers Secretaries	140702
25.0702		140102
25.0102	Bookkeepers	140402
25.0406	Receptionists	14010]
25.0101	Accountants	T . 422
	Attorneys	170508
26.0404	Pilots	171005
(26.1102	Maintenance	140406
\25.0405	Nessengers	140203
25.0201	Computer Operators	140105
25.0107	Internal Auditors	140102
	Land Planners	042204
22.1901	Sales Personnel	042204
	Travel Personnel	140601
25.0601	Personnel Workers	T4000T
	Accounts Clerks	
	Assistant Chief Land Turveyor	160100
26.2500	Engineers	160100
	Engineering Technology	160116
26,1300	Draftsmen	160116
27.1133	Survey Party Chief	173333
26.1013	Survey Instrumentmen	170916
25.0104	Office Machine Operators	140103
	Project Representatives	
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e.e. codi	DESCRIPTIVE TITLE	USOE CODE
22.1800	Race Tracks/Amusements	041800
26 8305	General Superintendent	140802
26.1703	Landscape Superintendent Barn Area Supervisor	173104
21.0506	Turf Course Supervisor Building Maintenance Superintendent	010506
	Track Superintendent Cleaning Superintendent	
21.0309	Equipment Operators	010399
26.1101	Cleaning Personnel	1.71.001
26.0302	Mechanics (Auto)	170301
26.1001	Carpenter	170901
26.1007	Plumber	170910
26.1002	Electrician	171301
26.1102	Maintenance Personnel	171005
26.1014	Landscape Laborers	170914
	Barn Area Laborers	1
22.1900	Trucking/Moving/Delivery Services	041900
25.0805	Managers	140802
22.1907	Storage Hanagers	041910
25.0808	Operations Supervisors	140808
25.0102	Bookkeepers	140102
25.0702	Secretaries	140702
25.0302	File Clerks	140301
25.0904	Teletype Operators	040311
25.0201	Computer Operators	140203
22.1904	I.C.C. Compliance Officers	041907
22.1909	Dispatchers	041912
25.0507	Inventory Control Clerks	140317
22.1906	Moving Consultants	041909
22.1901	Truck Drivers	041901
22.1301	Claims Adjusters	041304
27.0202	Security	172205
25.0503	Shipping and Receiving Clerks	140306
22.2102	Telephone Solicitors	042205
22, 1903	Warehousemen	041905
25.0405	Couriers	140406
26.1014	Truck Driver Helpers	170914
26.0302	. Mechanics	170301
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C.C. CODE	DESCRIPTIVE TITLE	USOE CODE
22.2000	Department Stores, Retail Businesses	042201
22.2002	Retail Business Managers	042203
25,0601	Personnel Managers	140601
22.2004	Department Managers	042208
22.0417	Credit Officials	140518
22.0407	Credit Clerks	140501
25.0805	Office Managers	140801
25.0102	Box keepers	1.40102
25.0702	Secretaries	140702
25.0104	Office Machine Operators	140103
25.0201	Computer Operators	140203
25.0203	Programmers	140202
22.2005	Buyers	042209
26.0704	Advertising Artists	170705
26.0702	Window Display	170703
22.0100	Public Relations/Advertising Personnel	040101
22,2003	Retail Sales Clerk	042206
25.0103	Cashiers	140104
25.0503	Shipping and Receiving Clerks	140306
25.0504	Stock Clerks	140307
25.0703	Stenographers	140703
27.0202	Security Personnel	172205
22,1901	Truck Drivers	041901
26,3305	Alterations Personnel	177806
26.3500	Installers/Upholsterers	172700
26.0701	Decorators	170702
26,0302	Warehousemen	170301
1	Furniture Finisher	<b>@</b>
26,2102	Jewelry/Watch Repairman	171703
26.0302	Mechanics	170301
26.2909	Cooks	090405
26.2909	Dishwashers	172310
26.2910	Cafeteria Workers	
26.0304	Gas Attendants	041601
25.0601	Personnel Workers	1406 1
26.0201	Appliance Service Technicians	170203
	Auto Laborers	
	Catalogue/Customer Service	
26.1102	General Building Maintenance	171005



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C.C. CODE	DESCRIPTIVE TITLE	USOE COD
23.0000	Medical/Nospital	070000
23.9910	Hospital Administrators	070810
25.0805	Office Managers	140801
25.0102	Bookkeepers	140102
25.0201	Computer Operators	140203
25.0201	Programmers	140202
25.0702	Secretaries	140702
25.0104	Office Machine Operators	140103
25.0406	Receptionists	140402
25.0902	Typists	140303
25,0302	File Clerks	140303
25.0103	Cashiers	140104
22,1312	Insurance Clerks	041313
22.9901	Teléphone Operators	140403
23.9905	/Nedical Records Clerks	070705
23.9906	Medical Records Technicians	070704
9904. دَ2	Ward Clerk-Admitting Personnel	070309
25.0601	Personnel Workers	140601
22.0100	Public Relations/Advertising Personnel	040101
22,2001	Purchasing Agents	042207
23.0908	Dieticians	090403
25.0908	Cooks and Chefs	090405
26.2302	Executive Housekeepers	090601
23,9903	Housekeeping Personnel	070819
23.0703	Sanitarians	070812
27.0202	Security Personnel	17 22 05
	Bio-medical Technicians	070818
23.9916		070818
23,9914	Cardio-Pulmonary Technologists LrG Technicians	070210
23.0901 23.0902	EKG Technicians	070210
23.0907	Emergency Medical Technicians	070801
23.0907	Epidemiologists	070816
23.0302	Licensed Practical Nurses	070302
23.0904	Medical Assistants	070805
23.0203	Medical Lab Assistants	160303
23.0205	Medical Lab Technicians	070203
23.0503	Nuclear Medicine Technologists	070208
23.0303	Nurse Clinicians	0703 <b>1</b> 1
23.0303	Nurses Aides, Orderlies, Attendents	070303
23.0310	Nursing Administrators	076310
23.0312	Jursing In-Service Educators	070312
23.0401	Occupational Therapists	070401
23.0401	Occupational Therapists Assistants	070402
23.0305	Operating Room Technicians	070304
23.0601	Opthalmic Dispersing Technicians (Opticians)	070601
23.0603	Optometric Assistants	070602
23.9912	Paramedics	070813
23.9911	Pharmacists	070811
23.0402	Physical Therapists	070403
23.0402	Physical Therapists Assistants	070403
23.9908	Physicians	070808
23.9907	Pulmonary Function Technicians	070817
23.0502	Radiologic Therapists	070207
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c.c. con	DESCRIPTIVE TITLE	USOE CODE
23.0000	Mexical/Hospital	070000
23.030.	Registered Nurses	070301
23.9909	Speech Pathologists	070809
23.9913	Ultra Sound Technologists	070814
25.2909	Dishwashers/Food Service	1 2310
23.0200	Lab Technologists	070203
2-3,-2,-3	Dietary Utility Aides	
23.0307	Homemakers/Home Health Aides	070307
26.1102	Building Naintenance	171005
23.0909	Mortuary Services	160519
	General Personnel Intern Embalmers Intern Funeral Directors Funeral Directors	
25,0702	Lead Directors Secretaries	140702
•		
24.0205	Maid/Cleaning Services	090699
22.1110	laids	041110
25.0702	Secretaries	140702
25.0803	Drivers-Managers	140804
25.0807	General Managers	140807
22.1901	Sales People	042204



C.C. CODE	DESCRIPTIVE TITLE	USOE CODE
25.0100	Accounting/Computer/Communications/Companies	140100
25,0805	Office Hanagers	140802
25.0101	Accountants	1.401.01
25.0102	Bookkeepers	140102
25.0102	Tax Preparers	140107
25.0204	Systems Analysts	140201
25.0204	Programmers	140202
25.0208	Junior Programmers	1.40209
25.0207	Program Trainees	1.40208
25.0206	Tare Librarians	140207
25.0502	Control Clerks	1,40315
25.0201	Computer Operators	140203
25.0104	Office Machine Operators	140103
25,0702	Secretaries	140702
25,0905	Statistical Clerks	140314
25.0406	Receptionists	140402
22.9901	Telephone Operators	140403
25,0902	Typists	140303
25.0302	File Clerks	140301
25,0403	Postal Clerks	140405
25.0601	Personnel Workers	140601
22.1901	Salespeople	042204
26.1101	Housekeeping Personnel	171001
27.0202	Security Personnel	172205 140804
25.0803	Statistical Supervisor	140102
25,0102	General Bookkeeping Clerks	THOTOR
	Repairman	
	Service Representatives	
06 1504	Bill Adjusters	171402
26.1504	Computer Technician Engineers	160100
26.2500 25.0201	Console Operators	140203
25.0201	Inserting Machine Operators	
*	CRI Operators	
25.0101	Junior Accountants	140101
23.0101	Key Tape Operators	
22,0417	Credit Analysts	140518
22.0407	Collectors	140501
,	Encoding Machine Operators	•
1		lang. w
25.0600	Employment Services	14060 <b>0</b>
25 0005	Managara	1.40000
25.0805	Managers	140802 140804
25.0803	Supervisors	140402
25.0406 22.1901	Receptionists Sales Representatives	042204
25.0102	Bookkeepers	140102
25.0703	Stenographers	140703
25.0306	Key Punch Operators	140313
25.0902	Typists	140303
25.0901	General Office Clerks	1.40301



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C.C. CODE	DESCRIPTIVE TITLE	USOE CODE
25.0707	Law Firms	160516
25.0707		12
25.0805	Management	140802
25.0708	Attorneys	160522
27.0863	Legal Secretaries	173263
25.0907	Word Processing Typists	140321
25.0102	Accounting Clerks	140102
25.0102	Bookkeepers	140102
25.0302	Records Clerks (File)	140301
27.0403	Librarians	090264
22.9901	Telephone Operators	140403
25.0405	Couriers	140406
25.0709	Para-legals	160523
25.0406	Receptionists	1404 <b>0</b> 2
25.0403	Mail Clerks	140405
	rai dui 1 /Air Conditioning Popairs	170102
26.0101	Electrical/Air Conditioning Repairs	170202
25.0805	Management	140802
26.1002	Electrical Construction Servicemen	171301
26.0101	Air Conditioning In-Shop Installers	
25.0901	Clerical Personnel	1403 <b>0</b> 1
23.0301		4
T ***		
		170504
26.0400	Airlines	T10304
25.0805	Managers	1408 <b>0</b> 2
25.0102	Bookkeepers	140102
25.0702	Secretaries	140702
25.0702	File Clerks	140301
25.0104	Office Machine Operators	140103
22.0100	Public Relations/Advertising Personnel	040101
25.0601	Personnel Workers	140601
22.1802	Reservationists	041913
22.9901	Telephone Operators	140403
25.0201	Computer Operators	140203
25.0203	Programmers	140202
25.0904	Teletypists	140311
26.0408	Airline Dispatchers	170506
26.0411	Traffic Agents and Clerks	70510
26.0412	Baggage Handlers	170511
26.0415	Freight Agents	170514
26.0404	Pilots	1705 <b>0</b> 8
26.0410	Co-Pilots	170509
22.1803	Flight Attendents	041914
26.0406	Flight Engineers	160101
26.0407	Aircraft Mechanics	170503
26.0409	Ground Radio Operators	170507
26.0413	Refuelers	170512
26.0414	Ramp Agents	170513
27.0202	Security Personnel	172205
26.1101	Housekeeping Personnel	171001
22.1901	Sales	042204
	Accountants	140101
25.0101	Parts Clerks/Inventroy Control	140317
25.0507	rates crained invention contains	
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ERIC CANTAGE PROMISE FOR EIGHT

C.C. COD	DESCRIPTIVE TITLE	USOE CODE
26.1000	Construction Occupations	170900
26.1704	Project Managers	173105
26.1705	Field Superintendents	173106
26.1702	Foremen	173103
26.1706	Coordinators	173107
26.1300	Draftsmen	160116
26.1021	Brick Layers	170905
26.1001	Carpenters	170901
26.1004	Cement and Stone Masons	170902
26.1010	Roofers	170912
26.1022	Asbestos and Insulation Workers	170918
26.1008	Dry Wall Installers	170904
26.1006	Plasterers	170903
26.1007	Plumbers/Pipefitters/Welders	170910
26.1002	Electricians	171301
26.1005	Painters/Paper Hangers	170909
26.1018	Floor Covering Installers	170913
26.1019	Terrazzo Workers	170907
26,1020	Tile Setters	170908
26.1009	Glaziers	170911
26.2305	Sheet Metal Workers	171907
26.2310	Structural-Ornamental Ironworkers (Rigger)	171913
26.1014	Construction Laborers	170914
25.0102	Bookkeepers	140102
25.0 <b>702</b>	Secretaries	140702
27.0202	Security	172205
26.1003	Construction Machinery Operators	171103
22.1901	Drivers	041901
22,1901	Sales Personnel	042204
26.1102	General Maintenance	171005
26.1010	Shingle Layers	170912
	Pre-Cast Installers	3.40505
22.0401	Payroll Clerks	140505
26.0408	Dispatchers	170506
22.1903	Warehousemen .	0419 <b>0</b> 5
	Real Estate Sales	140000
25,0805	Executive Management	140802
25.0101	Accountants	140101
26.030 <b>2</b>	Mechanics	170301
26.2500	Engineers	160100



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c.c. code	DESCRIPTIVE TITLE	USOE CODE
26.1011	Architectural Occupations	160103
26.1300	Architectural Drafters	171201
26.0500	Blue Print Readers	170915
26.1708	Construction Managers	173109 170920
26.1023	Construction Specifications Writers	173108
26.1707	Construction Superintendents	170921
26.1024	Interior Designers Structural Steel Detail Drafters	160132
26.1301		160133
26.1302	Truss Designers	173105
26.1704	Project Managers Office Managers	140802
25.0805 25.0102	Bookkeepers	140102
25.0102	Secretaries	140702
26.9902	Technical Writers	160599
26.1303	Mechanical Designers	160134
26.1304	Printed Circuit Board Designers	160135
26.2500	Manufacturing Engineers	160100
26.2307	Tool Makers	171905
26.1305	Machine Designers	160136
•	Configuration Analysts	:
_	Packaging Engineers	160776
26.1300	Civil Draftsman	160116
26.1907	Technical Illustrators	170809
26.1306	Tetra - Chemical Piping Designers	160137
	Equipment Operators Loss Control Coordinator	
	Loss Control Coordinator	
_ <u>aquangang</u> .as		
26.1106	Pool Maintenance	171006
25.0702	Secretaries/Receptionists	140702
26.1702	Supervisors	171303
26.1107	Repairmen, Pool	171009
26.1108	Service Technicians, Pool	171008
26.1600		•
,	Laundries, Dry Cleaning	172500
25.0805	Plant Managers	140802
25.0805	Nanagers	140802
25.0102	Bookkeepers	140102
25.0702 25.0103	Secretaries	140702
25.0201	Cashiers/Counter Sales	140104
22.1901	Computer Operators Local Truck Drivers (Delivery)	140203
26.3304	Color Specialists (Delivery)	171104
26.3303	Dyers	173505
26.3305	Seamstresses	172504 177806
23.0703	Soil Room Operators	070812
26.1604	Flatwork Personnel	172508
26.1602	Laundry Production Personnel	172503
26.1604	Linen Products Personnel	172508
	Pressers	
	Spotters	
3 1101	Housekeeping Personnel 111	171001
ERIC 2500	Engineers -103-	160100
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C.C. CODE	DESCRIPTIVE TITLE	USOE CODE
	MARY ALL AND A	USUE CODE
26.1900	F_inters/Newspapers/Photographers	170800
-		
25 0005	Editors	
25.0805 25.0102	Managers	140801
	Bookkeepers	140102
25.0302	File Clerks	140301
25.0406 25.0702	Receptionists	140402
	Secretaries	140702
25.0905	Statistical Clerks	140314
25.0104 25.0902	Office Machine Operators	140103
25.0203	Typists	140303
25.0203	Programmers	140202
22.9901	Computer Operators	140203
22.9901	Telephone Operators	140403
25.0601	Public Relations/Advertising Personnel	040101
22.2001	Personnel Workers	140601
26.0707	Purchasing Agents	042207
26.0706	Air Brush Artists Commercial Artists	170707
26.0708	Mechanical Artists	170701
26.1911		170708
26.1912	Graphic Tlustrators	170814
26.1912	Graphic Technicians	170815
26.1903	Composing Roam Personnel	170802
26.9902	Lithographic Occupations Technical Writers	170804
26.1902		160599
26.1908	Printing Pressmen and Assistants	170803
26.1915	Photographers Lab Technicians	170808
26.1904		170818
26.1914	Photo Engravers Offset Technicians	170805
25.0301		170817
25.0906	Duplicating Equipment Operators Electrotypers and Stereotypers	140304
26.1906	Book Binders	140318
26.1909	<b>)</b>	170807
26.1916	Bindery Specialists/Technicians Newspaper Reporters	170812
26.1913	Press Workers	170819
26.1702	Working Foremen	170816
26.1101	11 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	173103
22.1901	Sales People	171001
22.1701	Editorial Production Workers	042204
26.1014	Laborers/Paper Handlers	170014
26.1016	Inspectors	170914
20.1010	Circulation Personnel	173110
22.1901	Drivers	041003
26.1102	General Building Maintenance	041901
	concern partially reflices	171005



C.C. CÓDE	DESCRIPTIVE TITLE	USOE CODE
26.2202	Ship Builders	171805
25 0805	Managers	140802
		140101
		140102
	*	140702
	·	140103
	=	170901
		171301
		170917
	· · · · · · · · · · · · · · · · · · ·	173102
		170916
1		170909
· ·		170910
,		170915
		170915
		171909
- '		171803
		26.2202 Ship Builders  25.0805 Managers 25.0101 Accountants 25.0101 Bookkeepers 25.0702 Secretaries 25.0104 Office Machine Operators 26.1001 Carpenters 26.1002 Electricians 26.1017 Fiberglass Laminators 26.1702 Foreman 26.1702 Foreman 26.1016 Inspectors 26.1005 Painters 26.1007 Plumbers 26.1015 Semi-skilled Assemblers 26.1015 Skilled Assemblers 26.2306 Welders

C.C. CODE	DESCRIPTIVE TITLE	USOE CODE
26.2300	Manufacturing/Machine Shops	171900
25.0805	Managers	140802
25.0101	Accountants	140101
25.0102	Bookkeepers	140102
25.0702	Secretaries	140702
25.0406	Receptionists	140402
25.0905	Statistical Clerks	140314
25.0302	File Clerks	140301
25.090 <b>2</b>	Typists	140303
25.0104	Office Machine Operators	140103
22.9901	Telephone Operators	140403
25.0201	Computer Operators	140203
25.0203	Programmers	140202
22.3101	Manufacturers Salesworkers	042211
22.0100	Public Relations/Advertising Personnel	040101
22.1201	Marketing Research Workers	041203
22,2001	Purchasing Agents	042207
26.1101	Housekeeping Personnel	171001
26.1102	General Building Maintenance	171005
27.0202	Security Personnel	172205
26.1702	Foremen/Supervisors	171303
26.2500	Engineers	160100
26.1300	Draftsmen	160116
26.1915	Lab Technicians	170818
26.1002	Electricians	171301
26.2408	Electroplaters	171917
26.2307	Tool and Die Makers	171905
26.2309	Pattern Makers	171901
26.2404	Set-Up Men	171916
23.2302	All Around Machinists	171904
26.2303	Machine Tool Operators	171903
26.1015	Assemblers/Production Workers	170915
26.2409	Press Operators	171921
26.2402	Coremakers	171914
26.2406	Millwrights	171918
26.2401	Molders	171913
26.2411	Grinders	171923
26.2410	Trimmers/Finishers	171922
26.2306	Welders and Flame Cutters	171909
26.1016	Inspectors	173110
	Industrial Machine Operators	
25.0507	Control Clerks	140317
25.0504	Stock Clerks	140307.
25.0503	Shipping and Receiving Clerks	140306
26.1025	Power Truck Operators	171108
1	Installers	
22.1901	Truck Drivers	041901
·	Painters, Grinders, Sanders, Fillers	
	Production/Material Control	170014
26.1014	Laborers	170914



DESCRIPTIVE TITLE	USOF CODE
Manufacturing/Machine Shops	171900
Diesel Mechanics	171101
N.C. Drill Operators Profile Operators Steel Erectors Mechanics	170301
Art Work Preparers  Real Time Programmers  Upholstery Workers  Licensed Crewmen  Pipefitters	170910
	11002
Energy Sources/Utilities	171503
Managers Clerks Foreman Sales People Delivery Men	140801 140301 171303 142204
Installers Servicemen Welders Laborers Mechanics - Truck	171909 170914 170301
Radio Stations	160600
Station Managers Office Managers Bookkeepers Secretaries Receptionists/Clerical Telephone Operators Personnel Workers Public Relations/Advertising Personnel Computer Operators Technical Writers Interpreters Broadcast Technicians Radio Announcers Radio Service Technicians	140802 140801 140102 140702 140702 140702 140601 040101 140203 160599 160603 160601 160604
	Manufacturing/Machine Shops  Diesel Mechanics Photo-Printers N.C. Drill Operators Profile Operators Steel Erectors Mechanics Contracts Administrators Art Work Preparers Real Time Programmers Upholstery Workers Licensed Crewmen Pipefitters  Energy Sources/Utilities  Managers Clerks Foreman Sales People Delivery Men Installers Servicemen Welders Laborers Mechanics - Truck  Radio Stations  Station Managers Office Managers Bookkeepers Secretaries Receptionists/Clerical Telephone Operators Personnel Workers Public Relations/Movertising Personnel Computer Operators Technical Writers Interpreters Broadcast Technicians Radio Announcers



C.C. CODE	DESCRIPTIVE TITLE	USOE CODE
27.0202	Security	172205
25.0805 25.0102	Office Managers Bookkeepers	140802 140102
25.0201 25.0104	Computer Operators Office Machine Operators	140203 140103
25.0702 27.0202	Secretaries Security Officers	140702 172205
27.0202 27.0202	Watchmen Patrolmen	172205 172205
26.1702 27.0202	Investigators/Inspectors Supervisors Stadium Personnel	171303 172205

	C.C. CODE	DESCRIPTIVE TITLE	USOE COD
	27.0300	Schools/Universities	090207
	27.0301	Accounting Administrative Specialist	090211
	25.0102	Accounting Clerk	140102
	27.0302	Acquisitions Coordinator	090212
	27.0303	Administrative Specialist	090213
	27.0304	Admissions and Registration Clerk	090214
	27.0305	Admissions and Registration Coordinator	090215
	22.2006	Assistant Buyer	047710
,	25.0702	Assistant Executive Secretary	140702
	27.0306	Assistant Supervisor, Custodial Services	090216
	27.0307	Audio-Visual Coordinator	090217
	27.0308	Audio-Visual Engineer	090218
	27.0300	Audio-Visual Technician	090219
	27.0310	Bookstore Clerk	090220
	27.0310	Bookstore Customer Service Clerk	090221
	27.0311	Bookstore Manager	090222
	27.0312	Bursar Office Manager	090223
	27.0313	Business Clerk	090224
	22.2005	Buyer	042209
	25.0103	Cashier	140104
`	27.0315	Class and Space Scheduling Specialist	090225
	27.0315	. Clark Senior	090226
	25.0902	Clerk, Typist	140303
	25.0201	Computer Operator	140203
	26.1101	Custodian	171001
	27.0317	Data Control Clerk	090227
	25.0104	Duplicating Equipment Operator	140103
	26.1504	Electronic Technician	<b>1</b> 71402
	27.0318	Equipment Manager	090228
	27.0319	Equipment Operator/Nechanic	090229
	25.0302	File Clerk	140301
	27.0320	Financial Aid Specialist	090230
	21.0508	Gardener	01050 <b></b>
	27.0321	Graphics Illustrator	090231
	27.0322	Graphics Technician	090232
	21.0508	Groundskeeper	010508
	27.0323	Instructors	090233
	25.0306	Keypunch Operator	140313
	27.0324	Keypunch/Registration Clerk	090234
	27.0325	Laboratory Supervisor	09,0235
	27.0326	Language Laboratory Clerk	090236
	27.0401	Library Administrative Specialist	090262
	27.0402	Library Clerk	090263
	25.0405	Mail Carrier	140406
	25.0403	Mail Clerk	140405
	27.0327	Mail Service Coordinator	090237
*	27.0328	Material Services Supervisor	090238
	26.0302	Nechanic	17030 <b>1</b>
	27.0329	Media Specialist	090239
	27.0330	Minority Recruiter	090240
	27.0331	Office Machine Repair Worker	090241
	27.0332	PBX Information Specialist	090242
	25.0601	Personnel Specialist	140601
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C.C. CODE	DESCRIPTIVE TITLE	USOE CODE
	Quit-1-At-in-mail-i	090207
27.0300	Schools/Universities	090207
27.0333	Placement Specialist	090243
27.0334	Posting Clerk	090244
27.0355	Press Worker	090245
25.0203		140202
27.0336	Programmer Property Clerk Specialist	090246
25.0406	Receptionist	140402
27.0337	Records Specialist	090247
27.0337	Science Technician	090248
25.0702	Secretary	140702
27.0339	Secretary Security Chief	090249
27.0202	Security Guard	172205
27.0340	Student Advisor	090250
27.0341	Student Advisor Student Activities Specialist	09025
27.0341	Student Activities specialist Student Affairs Clerk	090252
27.0343	Supervisor, Bulding Maintenance	090253
27.0344	Supervisor, Custodial Services	090254
27.0344	Supervisor, Grounds Maintenance	090255
27.0346	Textbook Buyer	090256
	Timekeeper Clerk	090257
27.0341	Transcript Clerk	090258
27.0348	Television Engineer	090259
27.0349	Vehicle Maintenance Supervisor	090260
27.0350	Vehicle Maintenance Supervisor  Veteran and Administrative Clerk	090261
27.0351	Warehouse Worker	041905
22.19031	Marenouse Morver	しきエンしつ



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C.C. COL	DESCRIPTIVE TITLE	USQL CODE
27.0800	City Government	173200
	'	
25.0101	Accountant I	140101
25.0102	Bookkeeper	140102 °-
25.0801	Administrative Assistant I	140303
27.0801	Administrative Services Coordinator	173201
26.0101	Air Conditioning Maintenanceman	170102
27.0802	Airport Maintenance Foreman	173202
27.0803	Airport Manager	173203
27.0803	Airport Operations Supervisor	173204
		173204
27.0805	Airport Police Officer	
27.0806	Airport Police Supervisor	173206
27.0807	Aquatic Leader	173207
27.0808	Architect	173208
27,0809	Associate Planner	173209
27.0810	Athletic Supervisor	173210
27.0811	Auditorium Clerk	173211
27.0812	Auditorium Manager	173212
25.0205	Auto. Data Processing Operations Supervisor	140206
26.0302	Automotive Mechanic I	170301
26.0305	Automotive Paint and Body Man I	1.70402
27.0813	Battalion Chief	173213
	Beach Patrol Captain	173214 / 3
27.0814		173215
27.0815	Bridgentender	
27.0616	Building Inspector I	173216
27.0317	Building Maintenance Foreman	173247
22.2005	Buyer	042209
26.1001	Carpenter (Maintenance)	170901
27.0818	Cemetary Manager /	173218 .
27.0519	Central Services Administrator	173219
27.0820	Chief Code Compliance Inspector	173220
27.0621	. Chief Product Control Inspector	1.73221
27.0822	City Clerk	• 173222
27.0823	City Engineer	173223
27.0824	City Planner	173224
27.0825	City Treasurer and Collector	173_25 (
27.0326	Civil Engineer I	173226
25.0303	Clerk I	140302
25.0703	Stenographer I	140703
	Clerk Typist I	140301
25.0902 27.0827	Communications Service Officer	173227
		173228
27.0828	Communications Technician	173226
27.0829	Community Affairs Representative I	
. 25.0201	Computer Operator T	140203
27.0830	Custodial Foreman	173230
27.0831	Customer Serviceman I	173231
27.0832	Data Control Clerk	173232
26.1200	Diesel Technician	171101
27.0833	Director of Building and Zoning	173233
27.0834	Director of Community Affairs and Housing	173234
27.0835	Director of Dept. of Solid Waste Management	173235
27.0836	Director of Finance	173236
27.0037	Docks and Waterways Foreman	173237
27.0038	Documentation Clerk	173::38
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C.C. CODE	DESCRIPTIVE TITLE	USOE CODE
27 0000	City Corporate	7.72.70.0
27.0800	City Government	173200
27,0839	Driver-Engineer	173239
25.0301	Duplicating Equipment Operator	140304
27.0840	Electrical Inspector I	173240
27.0341	Electrician I (Maintenance)	173241
27.0842	Electro-Technician I	173242
27.0843	Engineering Aide	173243
27.0844	Engineering Draftsman I	173244
27.0845	Engineering Inspector I	173245
27.0846	Ingineering Services Supervisor	173246
27.0847	Environmental Biologist	173247
27.0848	Environmental Chemist	173248
27.0849	Invironmental Laboratory Technician	173249
27.0850	Environmental Service Coordinator	173250
27.0851	l'abricator-Welder	173251
27.0352	Financial Analyst	173252
27.0101	Fire Captain	172206
27.0102 27.0103	Fire Chief	172207
27.0103	Firefighter Fire Lieutenant	172201
27.0104	Fire Unit Dispatcher	172208 172209
27.0853	Fleet Superintendent	173253
27.0854	Garage Supervisor	173254
26.1103	Heavy Equipment Operator	171103
27.0855	Incinerator Maintenance Mechanic I	173255
27.0856	Incinerator Operator I	173256
27.0857	Incinerator Plant Supervisor	173257
27.0858	Industrial Airpark Coordinator	173258
23.0301	Industrial Nurse	070301
27.0859	Instrument Technician I	173259
25.0107	Internal Auditor	140105
25.0306	Key Punch Operator	140313
27.0860	Labor Relations Officer	173260
21.0504	Landscape Architect	010504
27.0861	Landscape Inspector I	173261
27.0862	Legal Administrative Assistant	173262
27.0863 27.0864	Legal Secretary I	173263
27.0865	License Inspector Lifeguard	173264
27.0866	Maintenance Machinist	173265 173266
27.0867	Maintenance Mechanic	173267
27.0868	Maintenance Supervisor	173268
26.1004	Mason/Plasterer	170902
27.0869	Mechanical Inspector I	173269
27.0870	Neter Reader	173270
27.0871	Mobile Equipment Supervisor	173271
27.0872	Mobile Parts Expediter	173272
27.0873	Municipal Maintenanceman I	173273
21.0505	Nursery Foreman	010505
27.0874	Organized Crime Analyst	173274
27.0875	Painter (Maintenance)	173275
27.0876	Park Ranger	173276
27.0877	Parking Lot Attendant	173277
27.0878	Parking Manager	173278
	120	1

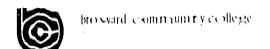
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C.C. CODE	DESCRIPTIVE TITLE	USOE CODE
27.0800	City Government	173200 ·
27.0879	Parking Meter Checker	173279
27.0880	Parking Meter Serviceman I	173280
27.0881	Parking System Supervisor	173281
27.0882 27.0883	Parks Foreman Parks Superintendent	173282 173283
27.0883 27.0884	Parks Supervisor	173284
27.0885	Party Chief	173285
27.0886	Paymaster	173286
25.0601	Personnel Director	140601
25.0603 25.0602	Personnel Records Clerk	140602
27.0887	Personnel Technician Pest Control Foreman	140603 173287
27.0888	Pest Control Supervisor	170288
27.0889	Pest Controlman	173289
27.0890 27.0891	Planning Assistant	173290
27.0891	Planning Technician Plumber (Maintenance)	173291 173292
27.0893	Plumbing Inspector I	173292
27.0894	Police Aiue	173294
27.0895	Police Cadet	173295
27.0896 27.0897	Police Captain Police Chief	173296
27.0898	Police Lieutenant	173297 173298
27.0899	Police Major	173299
27.1101	Police Officer	173301
27.1102 27.1103	Police Sergeant Pool Maintenanceman	173302
27.1104	Print Shop Supervisor	173303 173304
27.1105	Programmer I	173305
27.1106	Property Control Clerk	173306
27.1107 27.1108	Property Control Supervisor Public Works Director	173307
22.2001	Purchasing Agent	173308 042207
25,0406	Receptionist	140402
27.1109	Recreation Director	173309
27.1110 27.1111	Recreation Leader I	173310
27.1112	Recreation Superintendent Refrigerant Mechanic	173311 173312
27.1113	Refuse Collector I	173313
27.1114	Refuse Foreman	173314
27.1115 27.1116	Relocation Aide	173315
27.1117	Researdi Engineer Right-of-Way Agent	173316 173317
27.1118	Right-of-Way Aide	173317
27.1119	Risk Manager	173319
27.1120 27.1121	Safety Supervisor Sanitation Field Supervisor	173320
27.1122	Sanitation Operator I	173321 173322
25.0702	Secretary I	140702
27.1123	Service Clerk	173323
27.1124 27.1125	Sewage Transmission Supervisor Sign Painter	173324
27.1126	Software Specialist	173325 173326
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27.0800  27.1127 27.1128 27.1129 27.1130 27.1131 27.1132 27.1133 22.9901 27.1135 27.1135 27.1136 27.1137 27.1138 27.1139 27.1141 27.1142 27.1142 27.1143 27.1144 27.1145 27.1145 27.1146 27.1147 27.1148 27.1148 27.1149 27.1150 27.1151 27.1152 27.1153 27.1155 27.1156	Stadium Maintenance Foreman  Storekeeper I Streets Foreman Streets Supervisor Streets Superintendent Supervisor of Marine Facilities Surveyor Switchboard Operator I Systems Administrator Systems Analyst Technical Clerk Tennis Supervisor Training Officer Unit Dispatcher Utilities Aide Utilities Maintenance Superintendent Utilities Maintenance Supervisor Utilities Maintenance Supervisor Utilities Mechanic I Utilities Mechanic I Utilities Wastewater Treatment Supervisor Utilities Water Treatment Supervisor Victim Onbudsman Wastewater Treatment Plant Operator I Watchman Water Distribution Supervisor Water Operations Superintendent Water Treatment Plant Operator I Weighmaster Welder Wend Processing Operator	173200 173327 173328 173329 173330 173331 173332 173333 140403 173334 140201 173335 173336 173337 173341 173342 173341 173342 173343 173344 173345 173346 173347 173348 ;73349 173351 173351 173352 173353 173355 173356
27.1157 27.1158 27.1159 27.0402 26.1014	Word Processing Supervisor Youth Guidance Advisor Zoning Inspector I Library Personnel Laborers	173357 173358 173359 090263 70914
25.0102 26.1102 21.0308 23.0907	City Administrators/Managers Accounting Clerks General Maintenance Golf Personnel Rescue Squadmen	140102 17 005 010306 070801





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April 6, 1978

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Recently you participated in the Broward County Training Needs Assessment Survey being conducted by Broward Community College. The survey is now near completion. We have found the major employers in Broward County to be very cooperative and informative in this effort to determine the educational and training needs of business and industry in our community.

In order to complete the survey and evaluate the findings, it is necessary to have all sections of the questionnaire in our office by April 28th. If you still have the section of the questionnaire describing positions, education levels and experience, please try to complete it and return it to our office by the end of April.

We would like to take this opportunity to thank you for your time and cooperation. If you have any questions regarding the project, please do not hesitate to call us at (467-6700, Ext. 235).

Sincerely,

Dr. Man the VI ahos

Director of Institutional Research

and Systems Planning

MV: jat

cc: K. K. Mann

P. Hersom

J. Johnson

J. Skudlarek

- 715 -





administrative offices 225 east las olas houlevard fort lauderdale, florida 33301

July 11, 1978

Dear

Broward Community College's Training Needs Assessment is in the final stages. We have gathered many valuable facts and ideas to aid us in planning to meet the educational and training needs of Broward County's major employers.

As one of the County's major employers your input on our final results is very valuable. The evaluation of the findings will be incomplete without your list of current and future employment needs. We have already included the data from our interview with you in the computer analysis of responses to the questionnaire. We appreciate that you have taken the time and effort to talk to our interviewers to discuss your needs. We sincerely hope that your interest in our project is still active, and that you will take the time to complete the second phase of our interview. We hope to have the most complete and accurate data possible.

Once again, thank you for your time and cooperation. Please complete the enclosed forms and return them to our office as soon as possible in order to help us complete our evaluation.

Sincerely,

Dr. Mantha V. Mehallis

Director of Institutional

Research and Systems Planning

Kathleen K. Mann

Project Coordinator

KKM/ne





administrative offices
225 east las olas boulevard
fort lauderdale, florida 33301

October 2, 1978

Dear Training Needs Assessment Participants:

Broward Community College has completed the study undertaken last year to assess the educational training needs of Broward County business, industry and government. The project was funded by BETA and conducted in conjunction with the Broward Industrial Board and the Fort Lauderdale Area Chamber of Commerce. As a participant in the personal interviews, we would like to thank you for your pertinent and valuable information.

We have compiled and analyzed the data collected during the interviews and are sending highlights of the results to you in the enclosed brochure and Fact Sheet. The brochure includes a description of the project, major findings, charts of positive survey responses, and survey conclusions. The Fact Sheets compare general responses to responses for all businesses similar to your  $\alpha$  . A detailed report is also on file in our Office of Institutional Research. Additional information specific to your concerns may be received from the office upon request (contact Dr. Mehallis, 467-6700, ext. 232).

During the next year, we will begin developing programs to meet some of the highest demand occupational areas. You may be asked to assist us with the design of the curricula, so that the educational institutions can begin training persons qualified to meet your specific needs. Again, we thank you for your participation in this very worthwhile endeavor. We hope to further the excellent relationship which is developing between the college and business, industry, and government of our community.

Sincerely,

Mantha Vlahos Mchallis

Dr. Mantha Vlahos Mehallis Director of Institutional Research and Systems Planning

Kathleen Koontz Project Coordinator



# BROWARD COUNTY TRAINING NEEDS ASSESSMENT SURVEY

BROWARD COMMUNITY COLLEGE

OFFICE OF INSTITUTIONAL RESEARCH AND SYSTEMS PLANNING 1977 - 1978



# Broward County Training Needs Assessment Survey

1	. W	hat is your position in the company? (Please c	incle	
	1	. President or Vice-President		
	2	. Personnel Manager		
	3	. Public Relations		
	4	. Training Director		
	5.	Other (Specify):	·	
2	. Wh	nat is the <u>most imp</u> ortant quality you look for indidates? (Please circle <u>Only</u> one)	n employee	
	Ή.	Basic skills (Reading, spelling, mathematics)		
	2.	Prior qualifications (Skill training, experie	nce)	
	3.	Interest		
	4.	Personality		
	5.	Ambition		
	6.	Personal appearance		
	7.	Work attitude		
	8.	Responsibility		
	9.	Other (Specify):		
3.	Ple Are	ease answer Yes or No to the following questions your present employees adequately prepared for	: your needs Yes	in <u>No</u>
	1.	Basic skills (Reading, spelling, mathematics)	1	2
	2.	Technical skills	1	2
	3.	Management skills	. 1	2
	li.	Work attitude .	1	2
-	5.	Sense of personal responsibility	1	2
	6.	Ability to get along with co-workers	1	2



4.	Do you anticipate any new products or services within the next <u>5</u> years that will create a need for new job positions? (Please circle)
	1. Yes
	2. No (Skip to Item #6)
5.	What position(s) will be needed?
6.	Do you anticipate any cut backs in products or services that will modify or eliminate positions within the next 5 years? (Please circle)
	1. Yes
	2. No (Skip to Item #8)
7.	What position(s) will be changed?
8.	Are there any positions that you have had difficulty in filling? (Please circle)
	1. Yes
	2. No (Skip to I tem #10)



١	Wha the	at are the positions and what is ( e difficulty in filling <u>each</u> posi	the most prevalent reason for tion?
		Positions	Reasons
-			
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		at recruitment sources do you use rcle as many as apply)	to fill positions? (Please
1	١.	Private employment agencies	
2	2.	Florida State Employment Service	?
3	3.	Newspaper ads	
L	4.	Employee referrals	
ģ	ō.	College, high school, or technic	al school placement offices
é		Professional publications	
.7	7.	Other public agencies	
8	3.	Other (Specify):	
W (	/ho (P1e	o currently orients your new perso lease circle)	nnel before they begin the job
1		Personnel Manager	•
2	2.	Training Director	
3	3.	Department Head or Supervisor	
4	١,	Co-workers	
. 5		Other (Specify):	



12.	Do you conduct supplemental training to upgrade employees? (Please circle)
	1. Yes
	2. No (Skip to Item #14)
13.	Who currently conducts supplemental training? (Please circle as many as apply)
	1. Personnel Manager
	2. Training Director
	3. Department Head or Supervisor
	4. Co-workers
	5. Company School within Broward County
	6. Company School outside of Broward County
	7. Outside Agency (Specify):
	8. Other (Specify):
14.	Do you have any specific training needs that are not being met? (Please circle)
	1. Yes
	2. No (Skip to Item #16)
5.	What are the positions and what skills are needed for each?
	Positions Skills: (1) Personal, Behavioral (2) Technical (3) Managerial
*.	
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16.	Do you have any position(s) with a high turn-over of employees? (Please circle)
	l. Yes
	2. No (Skip to Item #18)
17.	What are the positions and what is the most prevalent reason fo the turn-over in <u>each</u> position?
	<u>Positions</u> <u>Reasons</u>
18.	How do employees advance within the company? (Please circle as many as apply)  1. Seniority
	2. Additional on the job training
	3. Further outside schooling
	4. Promotion on merit
	5. Performance evaluation
	6. Testing
	7. Other (Specify):
19.	If you have a management level position open, do you try to fill it (Please circle)
	1. From within

2. Or from outside your company?

20.	Would you be interested in having any of the educational agencies in Broward County, such as, universities, community colleges, technical schools or public schools, establish training programs to meet your needs? (Please circle)
	1. Yes
	2. No (Skip to Item #22)
21.	Where would you prefer that this training take place? (Please circle)
	1. On site
	2. At one of the colleges or schools
	3. Other (Specify):
22.	What incentives do you currently offer for employees taking further training? (Please circle as many as apply)
	1. Release time from work
	2. Company payment
	3. Possible subsequent promotion
	4. None
	5. Other (Specify):
23.	Would vou be willing to offer incentives for new training programs developed by the educational agencies in Broward County? (Please circle)



1. Yes

2. No (Skip to Item #25)

. 24.		at types of incentives would you offer? (Please circle as many apply)
1	1.	Release time from work
r/	2.	Company payment
	3.	Possible subsequent promotion
	4.	None
	5.	Other (Specify):
25.	Hav	ve you ever hired any handicapped persons? (Please circle)
	١.	Yes
	(Na	ture of handicap <u>if</u> volunteered):
	2.	No .
26.	to	ld you be willing to participate in special training programs train handicapped persons for jobs in your company? (Please cle one)
	1.	Definitely would participate
	2.	Might participate but with reservations
	3.	Undecided
	4.	Would prefer not to participate
	5.	Definitely do not want to participate
27.	Doe:	s your company have an Affirmative Action Plan? (Please circle)
	1.	Yes
	2.	No

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Universities/Colleges	-	•	1	<del>,</del>	-			<del></del> ,		·	<del></del> -	<del></del> -,	J	نميست		<del>*</del> -	<del>-</del>		
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#### AUTO REPAIR

National Auto Tune-up Center

#### AVIATION

Bradley Aviation, Inc. Sky-Tell Aviation Sunstream Aviation, Inc.

#### BARTENDING

Advanced School of Bartending and Mixology Master School of Bartending

## BROADCASTING

Brown Institute

#### BUSINESS

Adelphi Business School
Broward Business School
Broward School of Machine Shorthand
Charron Williams College
Court Reporting Institute of Florida
H & B Schools, Inc.
Health Careers Academy
Le Bridge Legal Secretarial School, Inc.

# CASHIERING

Cashier Training of Broward, Inc.

#### COMPUTER

Institute of Computer Technology

#### COOKING

Varketta's, Ralph Cooking School

# CONSTRUCTION

Allstate Construction College Broward County Carpenters



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#### COSMETOLOGY

Frederich Hair Styling Academy
Hollywood College of Beauty Culture
Kree Institute of Electrolysis
Luella & Porters School of Beauty
Ray Mar Beauty College
Robinson Beauty School

#### FASHION

Fashion Institute of America in Fort Lauderdale Fashion Merchandising Institute of Florida

#### FLORAL\_DESIGN

Wilton Manors Florist

#### INDUSTRIAL

Arma Training Center, Inc.
RETS - Electronic School
South Florida Technical Institute

#### INTERIOR DESIGN

School for Interior Decoration and Design

# MARINE ARTS

Jack Blakes School of Diving Ocean Learning Institute

#### MODELING

Barbizon School of Modeling Carsons Gayle Careers School John Robert Powers

#### MOTIVATION

Leadership Training Institute of South Florida Nova Development Institute

#### PERFORMING ARTS

Atlantic Foundation for the Performing Arts



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# PET GROOMING

Merryfield Kennels

# REAL ESTATE

Century 21 Academy of Real Estate Gold Coast School of Real Estate Jordan Rudi Real Estate School

## TRAVEL

Hollywood School of Travel



# Program Areas Where One or No Programs Are Currently Being Offered in Southeast Florida

### Distributive

Fashion Modeling - MDCC

#### Health

Electronencephalograph... - chnology - MDCC Respiratory Technology - MDCC

# Home Economics

Draping & Pattern Making - MDCC
Tailoring - MDCC

#### Office

Health Administration - FAU
Public Administration - Biscayne College
Training Personnel - Sheridan Vocational Center

### Trades & Industrial

Aviation Mechanics - None
Diesel Engine Mechanics - None
Truck Driving - None
Truck Mechanics - None
Watch Repair - None

#### Technical

Aviation Engineering -- MDCC
Aviation Simulator Instructor -- MDCC
Cinema -- None
Electromechanical -- None
Instrumentation -- MDCC
Journalism -- None
Meterologist Analysis -- MDCC

#### Public Service

Funeral Service - MDCC
Occupational Safety - MDCC
Pumping Plants - Broward County High Schools



Projected Job Demand, Educational & Experience Requirements

By Occupational Category Based Upon 2-Year Projections

# Key To Education Levels

- 1. No minimum education required
- 2. High School
- 2 Year College Degree (Associate of Arts, Associate of Science) or Trade School
- 4. 1 Year College Certificate
- 5. 4 Year College Bachelor's Degree
- 6. Graduate work or Professional Degree

Occupational Category						
21.0000 010000	Proje	cted Number		:		
Nurseries/Florists/Landscapers	Current # of Employees	1 Year from Now	2 Years from Now	5 Years	Minimum Education Required	Experience Required
Laborers	16	26	26	26	None	No
Local Truck Drivers	12	14	14	16	None	Yes
Floral Designers	12	12	12	20	None	Yes
Managers	8	9	9	11	None	Yes
Floral Consultants	8	88	8	12	None	Yes
Secretaries	66	7	7	8	None	Yes
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Occupational Category 21.0101 010101	Pro	ected Numbe	r of Employe	85 · · · · ·		
Taxidermist	Current # of Employees	1 Year from Now	2 Years from Now		Minimum Education Required	Experience Required
Marine Taxidermists	50	55	55	60	None	No
Managers	5	5	5	5	High Sch.	Yes
Secretaries	2	2	2	3	None	No
Bookkeepers	2	2	2	3	High Sch.	No
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21.0200 160200	Projec	ted Number				
Pest Control Services	Current # of Employees	1 Year from Now	2 Years from Now		Minimum Education Required	Experienc Required
Monthly Sales People	6	6	7	8	None	No
Pest Control Technicians	7	7	7	8	None	No
Termite Control Sales People	3	3	3	4	None	No
Lawn Control Sales People	3	3	3	4	None	No
Bookkeepers	2	2	2	3	None	No
Route Supervisors	1	1	. 2	2	lone	Yes
Managers	Ż	2	2	2	None	Yes
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Occupational Category	;					
21.0300 010300	Proj	ected Number				
Country Clubs/Golf Courses	Current # of Employees	1 Year from Now	2 Years from Now		Minimum Education Required	Experience Required
Waiters/Waitresses	89	90	92	96	None	Yes
Cooks/Chefs	44	44	45	46	None	Yes
Landscape Technicians	41	41	41	41	None	No
Bus Boys	29	30	31	31	None	No
General Building Maintenance	26	27	27	27	None	Yes
Managers	22	22	22	22.	None - 2 Yr. Deg.	Yes
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Accupational Category					]	
Occupational Category 22,0300 040300	Dro	lacted Numbe	er of Employe	Δ¢		
22,0300 040300	Current #				Minimum	
Auto Dealerships	of Employees	1 Year	2 Years	5 Years	Education	Experience
Nato Scarciships	2 mp 10/003	from Now	from Now	Trom Now	Required None -	Required
Sales People	473	502	516	537	1 Yr.Cert,	Yes
Automotive Mechanics	420	471	496	513	None - 2 Yr. Deg	
Department Managers	137	142	146	148	None - 4 Yr.Deg,	Yes
Bookkeepers	78	76	80	81	None - 4 Yr. Deg,	Yes
Service Advisors	69	74	75	78	None = 2 Yr. Deg	Yes
Automobile Parts Sales People	65	67	73	77	None - 2 Yr. Deg	Yes
Porters - Get Ready Men	58	. 61	63	63	None – High Sch.	No
Body Shop Workers	56	61	63	66	None – 2 Yr. Deg	Yes
Sales Managers	- 59	60	61	61	None - 4 Yr. Deg	Yes
Housekeeping Personnel	59	59	60	60	None	No
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Occupational Category						
22.0300 040300	Proje	cted Number	of Employees	1		
22.0300 040300	Current #	1 Year	2 Years	-	Minimum Education	Experience
Auto Leasing	Employees	from Now	from Now	-	Required	Required
Orivers *	111	120	150		High Sch.	No
Automobile Mechanics	40	42	50		None ~ High Sch.	No
Dispatchers	12	12	16	16	High Sch.	No
Bookkeepers	14	14	15	18	High Sch.	No
Reservationists	5	5	6	7	High Sch.	No
Automobile Parts Supervisor <b>s</b>	6	6	6	6	High Sch.	No
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Accupational Category						
Occupational Category			<b>3</b>			
22-0400 040400	1	cted Number	of Employees			
Banks/Savings & Loans	Current # of Employees	1 Year from Now	2 Years from Now	5 Years from Now	Minimum Education Required	Experience Required
Tellers	255	275	302	347	None – High Sch.	No
Managers	86	90	102	123	High Sch. 2 Yr. Deg.	Yes
File Clerks	63	65	70		None – High Sch,	No
Savings Counselors	35	40	43		High Sch, None -	Yes
Loan Processing Clerks	35	37	40		High Sch.	Yes
Secretaries	33	35	38	45	High Sch.	Yes
Head Tellers	25	27	32	42	ligh Sch.	Yes
Mortgage Officers	21	24	31	<b>3</b> 9	digh Sch. 4 Yr. Deg.	Yes
Appraisers	24	26	30		High Sch. 4 Yr. Deg,	Yes
Loan Servicing Clerks	2.5	27	29	3.5	None <u>High Sch.</u>	No
						<u> </u>
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Occupational Category						
22.0400 040400	Proj	ected Number	of Employee	5		
Commercial Banks	Current # of Employees	l Year from Now	2 Years from Now		Minimum Education Required	Experience Required
Tellers	343	365	385	407	High Sch.	No.
Bookkeeners	159	16.7	176	188	High Sch.	No
Managers	79	85	92	102	High Sch. 2 Yr. Deg.	Yes
Loan Officers	69	76	82	91	High Sch. 1 Yr Cert	Yes
Secretaries	63	69	30	88	High Sch. High Sch.	Yes
Loan Processing Clerks	64	67	72	78	2 Yr. Deq	ļ
Typists	46	55	62	70	<u>ligh Sch.</u> None –	
Operations Officers	37	41	47	56	4 Yr. Deg	Yes
Proof Machine Operators	35	41	44	47	High Sch. High Sch.	
Head Tellers	?6	30	34	39	1 Yr Cert	1 6 8
Customer Service Representatives	28	32	34	34	High Sch.	No
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Proje	ected Number	of Employee	5		
Current # of Employees	1 Year from Now	2 Year from Now	5 Years	Educat lon	Experience Required
22	27	37	48	None	Yes
5	66	7	12	None	No
2	3	3	4	None	No
2	3	3	4	2 Yr. Deg.	Yes
	Current # of Employees 22 5	Current # of 1 Year Employees from Now 22 27 5 6 2 3	Current #     of    1 Year    2 Year	of Employees         1 Year from Now         2 Year from Now         5 Years from Now           22         27         37         48           5         6         7         12           2         3         3         4	Current # 2 Year 5 Years Education From Now From Now Required 22 27 37 48 None 2 3 3 4 None

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Occupational Category						
22.0600 040600	Proj	ected Number	r of Employe	25		
Retall Grocers/Wholesalers	Current # of Employees	1 Year	2 Years	5 Years	Minimum Education Required	Experience Required
Managers	209	239	268	30,1	None - High Sch.	Yes
Cashlers	172	185	198	281	None – High Sch.	Yes
Truck Drivers	74	79	83	89	None – High Sch.	No
General Production	80	80	<b>8</b> 0	80	None	Мо
Stock Clerks	46	46	46	51.	None - High Sch.	No
Bar Personnel	40 *	5 40	45	50	None	Yes
Bookkeepers	42 ,	42	43	44	None - ligh Sch.	Yes
Packing Personnel	30	30	35	40	None	No
Warehouse Men	28	31	34	37	None - High Sch.	No
Route People	34	34	34	49	None	No
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22.0700 040700	Proje	ected Number	r of Employee	5 .		
Food Services	Current # of Employees	1 Year from Now	2 Years from Now	5 Year	Minimum Education Required	Experience Required:
Food & Equipment Handlers	45	47	48	52	High Sch.	Yes
Food Preparation Personnel	40	43	45	50	None	Yes
Managers	34	<b>3</b> 9	44	50°	High Sch. 2'Yr. Deg	Yes
Dishwasher Operators	24	28	31	<b>3</b> 5	None .	No
Cashiers	18	22	26	30	High Sch.	No
Cooks & Chefs	16	19	<b>2</b> 2	27	High Sch.	Yes
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Occupational Category				į			
22.1100 041100	Proje	Projected Number of Employees					
Hotels & Restaurants	Current # of Employees	1 Year from Now	2 Years from Now	5 Years from Now	Minimum Education Required	Experience Required	
Waiters/Waitresses	. 438	504	519	566	None – High Sch.	No.	
Maids	319	355	359	365	None	No	
Housekeeping Personnel	240	265	276	288	None - High Sch.	No -	
Cooks & Chefs	192	191	200	216	None - 2 Yr. Deg.	Yes	
Desk Clerks	141	156	162	169	None - 2 Yr. Deg.	No	
Bartenders	134	151	156	163	None High Sch.	Yes	
Bell Captains & Bellmen	125	139	141	145	None - High Sch.	No	
Bus Boys	117	131	138	145	None	No	
Dishwasher Operators	134	155	132	168	None - High Sch.	No	
Housemen	85	96	101	107	None	No	
Hotel Managers & Assistants	83	93	95	101	None 4 Yr. Deg	Yes	
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Occupational Category 22.1100 041100	Proje	Projected Number of Employees					
Restaurants/Nightclubs	Current # of Employees	1 Year from Now	2 Years from Now		Minimum Education Required	Experienc Required	
Waiters/Waitresses	1529	2222	2775	4928	None – High Sch	Yes	
Cooks & Chefs	622	688	794	l .	None - 2 Yr. Deg	Yes	
Managers	235	324	428	1 -	None - 4 Yr. Deg.	Yes	
Cashiers	229	332	369		None – High Sch.	Yes	
Food Checkers	123	157	. 361	i .	None – High Sch.	No	
Bus Boys	295	336	346		None – 'ligh Sch.	No	
Dishwasher Operators	270	285	301	317	lone – ligh Sch.	No .	
Bartenders	129	147	149	151	None = 2 Yr. Deg	Yes	
Counter Help	78	90	90		None – High Sch.	No	
Parking Attendants	69	84	84	85	None	No	
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Occupational Category		4	ě		ł ·	
22.1300 041700	Proje	cted Number	of Employee:	5		
Insurance Companies/Property Mgmt.	Current # of Employees	1 Year from Now	2 Years from Now	5 Years from Now	Minimum Education Required	Experience Required
Insurance Agents/Brokers	402	488	563	661	None - 1 Yr Cert	No
Claims Adjustors	263	263	263	263	None - 4 Yr. Deg	Yes
Secretaries	99	105	113	125	None = High Sch.	Yes
Managers	97	97	98	101	None - 4 Yr. Deg	Yes
Housekeeping Personnel	86	86	86	86	None	No
General Maintenance	45	47	49	52	None - High Sch.	No
Sales Managers/Supervisors	34	38	40	51	None - 4 Yr. Deg	Yes
Bookkeepers	36	37	37	48	None - 2 Yr. Deg	Yes
Typists	36	37	37	38	None - 1 Yr Cert	, No
File Clerks	33	34	34	37	None – High Sch.	No
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Occupational Category									
22.1600 041600	Proje	cted Number	of Employee	)5	·				
Petroleum Services	Current # of Employees	l Year from Now	2 Years from Now	5 Years from Now	Minimum Education Required	Experience Required			
Station Attendants	165	173	191	214	None	No			
Truck Drivers	66	66	68	70	None 1	Yes			
Managers	38	40	42	47	None	Yes			
Terminal Operators	18	19	21 4	24	None – High Sch.	No			
Supervisors	18	18	18	19	None - High Sch.	Yes			
Mechani cs	15	15	15	15	None	Yes <sup>.</sup>			
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Occupational Category		4 ° '	,	:		
22.1700 041700	_ Proje	cted Number	of Employees	5		nensina 1985
Real Estate/Land Development	Current # of Employees	l Year from Now	2 Years from Now	5 lears from Now	Minimum Education Required	Experience Required
Managers	40	40	41	The second second second second	2 Yr. Deg. 4 Yr. Deg.	Yes
Secretaries	. 24	25	25		None – High Sch.	Yes
Bookkeepers	17	19	19		None – High Sch.	Yes
Survey Instrument Men	8	8	11	11	High Sch.	Yes
Draftsmen	. 8	9	10	11	High Sch.	Yes
Project Representatives	6	6	7	. 8	ligh Sch.	Yes
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Occupational Category				<b>5</b>		•
22,1800 041800	Pro	ected Numbe	r of Employe	es		
Amusements/Race Tracks	Current # of Employees	1 Year from Now	2 Years from Now	5 Years	Minimum Education Required	Experience Required
Cleaning Personnel	100	100	100	100	None	No
Equipment Operators	20	20	20	20	None	No
Landscape Laborers	15	15	15	15	None	No
Maintenance Personnel	10	10	10	10	None	No
Barn Area Laborers	8	8	8	8	None	No
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Occupa tional Category				*******	1	
	Proje	-tad Numbar	of Employees			
Z2. 190 v 041900  Trusking/Hoving/Delivery	Current # of Employees	1 Year from Now	2 Years from Now	5 Years	HInimum Education Required	Experience Required
Trusk Drivers	115	129	133	143	llone - lligh \$ch.	Yes
Courie 15	60	63	66	70	None	No
Truck Orivers Helpers	23	27	31	41	None	No
Operations Supervisors	25	27	30	34	None -	
Man Age rs	22	22	24	27	2Yr. Deg. 4Yr. Deg.	Yes
Mechan Ics	20	21	23	25	None - Nigh Sch.	Yes
Secretaries	17	17	20	21	High Sch. ∥Yr. Deg.	No
War eho use People	12	14	16	19	High Sch.	Yes
Boo kke epers	10	10	14	84	High Sch. 2Yr. Deg	Yes
Moving Consultants		13	14	16	llgh Sch.	Yes
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· · · · · · · · · · · · · · · · · · ·	cted Number	oi rubioxee	5 1					
of	1 Year from Now	2 Years from Now	5 Years from Now		Experience Required			
क्षा स्थान स्थान स्थान स्थान स्थान स्थान स्थान स्थान स्थान स्थान स्थान स्थान स्थान स्थान स्थान स्थान स्थान स्थ स्थान								
2837	3140	3334	3573	2 Yr. Deg	No			
137	586	599	627	1	Yes			
295	320	334	364	Nore - High S. h.	No			
137	2.53	275	31/3	None - High Sch.	No			
195	202	207	273	None - High Sch.	Mry			
166	188	193	200	None – 'High Sch.				
205	181	185	194	None – Migh Sch.	No			
153	162	170	183	None - 4 Yr. Deg	Yes			
126	136	*48	157	None - 1 Yr Gant	No			
130	13/	140	146	None High Sch	No.			
					ing ing the passing in a great section in a			
		The state of the s						
	Current # of Employees 2830 137 195 166 205 153 126	Current # of 1 Year Employees from Now 2830 3140  137 586  295 320  137 253  195 202  166 188  205 181  153 162  126 136	Current # of	of Employees         1 Year from Now         2 Years from Now         5 Years from Now           2830         3140         3334         3573           137         586         599         627           295         320         334         364           137         253         275         318           195         202         207         2°3           166         188         193         200           205         181         185         194           153         162         170         183           126         136         '48         15°	Current # of			

				1	
Proje	cted Number	of Employees	: ) 		Charles - Annie Charles State Control of the Contro
Current # of Employees	l Year from Now	2 Years from Now	5 Years from New	Minimum Education Required	Experience Required
2036	2 <b>:66</b>	2281	2587	2 Yr. Deg Grad. Wk.	Yes
1865	1885	1910	2008	None - 2 Yr. Deg	Yes
1079	1165	1210	1294	Grad. Wk.	Yes
594	596	621	628	High Sch.	Yes
429	454	4.,	492	2 Yr. Deg	Yes
197	201	206	215	1 Yr Cert	Yes
172	1/9	189	203	4 Yr. Deg	Yes
157	158	165	168	1 Yr Cert	Yes
149		A STREET OF THE STREET OF THE	170	2 Yr. Deg	MO
110	טכֿו יי	160	190 .	None	No
	10.44				
	<u>ئىرى دىدى چىرى ئىرى ئىرى دى دى يىرى ئىرى دى دى يىرى دى</u> دى يىرى ئىرى دى يىرى ئىرى ئىرى ئىرى ئىرى ئىرى ئىرى ئىر				:
	Current #     of Employees  2036 1865 1079 594 429 197 172 157 149	Current # of   1 Year   Employees   from Now   2036   2:66   1865   1885   1079   1165   594   596   429   454   197   201   172   1/9   157   158   149   145	Current #       of of 1 Year from Now from Now       2 Years from Now         2036       2:66       2291         1865       1885       1910         1079       1165       1210         594       596       622         429       454       4         197       201       206         172       1/9       189         157       158       165         149       151       55	of Employees       1 Year from Now       2 Years from Now       5 Years from Now         2036       2:66       2:281       2587         1865       1885       1910       2008         1079       1165       1210       1294         594       596       624       628         429       454       44       492         197       201       206       215         172       1/9       189       203         157       158       165       168         149       145       15       170	Current # of 1 Year from Now from Now From Now Education Required 2 Yr. Deg. 2036 2:66 2:281 2:587 Grad. Wk.  1865 1885 1910 2008 2 Yr. Deg. High Sch. Grad. Wk.  1079 1165 1210 1294 Grad. Wk.  1079 454 4. 492 2 Yr. Deg. None - High Sch. None - 2 Yr. Deg. None - 2 Yr. Deg. None - 2 Yr. Deg. None - 1 Yr Cert. 2 Yr. Deg. None - 1 Yr Cert. 2 Yr. Deg. None - 1 Yr Cert. 149 145 165 168 1 Yr Cert. None - 2 Yr. Deg.

23. 0909 160519	Proje	Projected Number of Employees				
Mortuary Services	Current # of Employees	1 Year from Now	2 Years from Now	5 Years from Now	Minimum Educati Required	Experience Required
Funeral Directors	25	25	25	25	4 Yr. Dog	Yes
General Personnel	11	11	13	13	  High Sch.	<u>No</u>
Secretaries	8	8	9	9	High Sch.	No
Intern Embalmers	6	8	Ú	10	High Sch.	Yes
Lead Directors	3	9	3	4	4 Yr. Deg.	Yes
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Occupational Cite ory						
<u> 24.0205 090699</u>	Proj	ected Number	r of Employee	35 17	*	and the second second
	Current #				Minimum	
	of	1 Year	2 Years	5 Years	Education	
Maid/Cleaning Services	Employees	from Now	from Now	from Now	Required	Required
Maids	165	175	200	230	None	No
Drivers, Managers	11	12	15,	18	None	No
Secretaries	2	3	5	5	None - High Sch.	Yes
General Managers	2	2	2	2	None – Hlah Sch.	Yes
Sales People	1	1	2	2	High Sch.	Yes
- 14			· · · · · · · · · · · · · · · · · · ·			
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	Occupational Category 25.0100 140100	Proje	ected Number		<i>λ.</i> ?3		
	25,0100 140100	Current #	offa Hamaa	entered to the second s	**************************************	Minimum	
		of:	i Year	2 Years	5 Years	Education	Experience
	Accounting/Computer/Communications	Employees	From Now	from Now	from Now	Required None -	Kegüired
	Telephone Operators	968	974	7081	1091	High Sch.	Yes
	Service Representatives	613	643	690	838	None - 2 Yr. Deg	Yes
	General Bookkeeping Clarks	305	306	320	336	None	\'es
ı	Sales People	181	183	188	191	None - 4 Yr, Deg	Yes
÷	Office Managers	172		181	194	None - 4 Yr. Deg	Yes
- 1	Bookkeepers	154	154	156	159	None - <u>ź Yr. D</u> eg	<u>No</u>
-158-	Secretaries	145	148	152	157	None - 2 Yr. Deg	Yes
	Statistical Clerks	144	147	152	158	None – High Sch.	Yes
	Tax Preparers	115	130	145	175	None	Yes
ý	Bill Adjustors	136	136	141	147	None – High Sch.	No
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		***************************************	***************************************	**************************************	Andrew Comments		
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Full Text Provided by E	no.			:			

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₽≈∧	iected Numbe	er of Employe	<u>)</u> ρξ		
Current # of Employees	1 Year from Now	2 Years from Now	5 Years		Experience Required .
125	125	125	125	None	Yes
75	75	75	75	None	No
	30	<b>3</b> 0	30	High Sch.	Yes
30	30	30	30	Hìgh Sch.	Yes
7	14	30	50	2 Yr. Deg	No
3	3	3	3	None	Yes
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		1 1,12		2	
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				a a transport ( per ana 18 atr a	
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	Current # of Employees 125 75 23 30 7	Current # of 1 Year Employees from Now 125 125 75 75 30 30 7 14	Current # of 1 Year       2 Years         Employees from Now       from Now         125       125         75       75         30       30         30       30         7       14         30       30	of         1 Year         2 Years         5 Years           Employees         from Now         from Now         from Now           125         125         125           75         75         75           20         30         30           30         30         30           7         14         30         50	Current # of 1 Year of Employees from Now Employees from Now from Now from Now Required         2 Years from Now From Now Required         Minimum Education Required           125         125         125         None           75         75         75         None           30         30         30         High Sch.           7         14         30         50         2 Yr. Deg



Occupational Category						
25.0707 160516	Proje	cted Number	of Employee	5		:
Law Firms	Current # of Employees	1 Year from Now	2 Years from Now	5 Years from Now	Minimum Education Required	Experience Required
Legal Secretaries	75	81	86	96	High Sch.	Yes
Attorneys	48	52	56	66	erad. Wk.	
Word Processing Typists	14	17	20	25	+ gr. Sch. Yr. Deg	Yes
Managers	11	12	13	15	Yr. Dec	Yes
Records Clerks	9	9	10	12	High Sch. High Sch.	
Bookkeepers	7	7	7	9	Yr. Dec	
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Occupational Category	Dua!	antad Number	r of Employee			
26.0101 170102  Electrical/Air Conditioning Services	Current #	1 Year	2 Years	5 Years		Experience Required
Electrical Construction Servicemen	<u>55</u>	55	55	55	None	Yes
Air Conditioning Installers	16	16	16	16	None	Yes
Clerical	10	10	10	10	None	Yes
Management	7	1		7	None	Yēs

Occupational Category						
26.0400 170504	1	cted Number	of Employee			
Alallass	Current # of Employees	1 /ear from Now	2 Years from Now	5 Years from Now	Minimum Education Regulred	Experienc Required
Aircraft Mechanics	84	90	93	100	None - 2 Yr. Deg	Yes
Managers	49	51	51	52	High Sch.	Yes
Traffic Agents & Clerks	31	31	31	31	High Sch.	
Flight Engineers	22	24	24	24	High Sch. 2 Yr. Deg	Yes_
Pilots	17	20	20	21	High Sch. 2 Yr. Deg	Yes
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Occupational Category						
26,1000 170900	Projec	ted Number	of Employees			
Construction	Current # of Employees	1 Year from Now	2 Years from Now			Experience Required
Construction Laborers	704	832	845	887	None – High Sch. None –	No
Construction Machine Operators	585	587	587	587	High Sch.	Yes
Carpenters	400	428	433	443	None – High Sch.	Yes
Drivers	174	186	191	217	None	Yes
Painters/Paper Hangers	126	160	167	210	None	No
Foremen	140	149	150	160	K )ne – <u>Figh Sch.</u>	Yes
Plumbers/Pipefitters	134	138	138	150	N )ne - High Sch.	Yes
Sales People	123	124	126	139	None - 4 Yr. Deg.	Yes
Secretaries	110	117	118	123	None - 2 Yr	Yes
Bookkeepers	110	114	114	121	None - 4 Yr. Deg	Yes
Roofers	78	100	112	148	None	Yes
Field Superintendents	93	100	101	102	None - 4 Yr. Dea	Yes
Managers	96	98	99	104	None - 2 Yr. Deg	Yes
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Occupational Category	/	gg*				
26.1011 160103		ected Number I	of Employee	5	W. 1	
Architectural Occupations	Current # Of Employees	1 Year from Now	2 Years from Now	5 Years from Now	Minimum Education Required	Experience Required
Equipment Operators	100	100	100	100	Noje	<u>Yes</u>
Construction Managers		1	74	1	High Sch.	Yes
Manufacturing Engineers	**	7	7		2 Yr. Deg	Yes
Printed Circuit Board Designers	6	6	<u></u>	6	<u> 2 Yr. Deg</u>	Yes
Machine Designers	5	5	5	5	High Sch.	Yes
Mechanical Designers	5	5	5	5	: Yr. Deg	Yes
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Occupational Category			· //			
26.1106 171006	Pro Pro	ected Numbe	r of Employe	:es		
Pool Maintenance	Current # of Employees	l Year from Now	2 Years from Now	5 Years from Now	Minimum Education Required	Experience Required
Service Technicians	25	<u>′</u> 25	25	25	None	No
Secretaries/Receptionists	6	7	7	7	High Sch.	No
Supervisors	4	4	44	4	None	No
Repairmen	4	4	4	4	None	No
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		mbor of Empl	1V885		160 a Million a Million 
Current # of Employees	rojected Nu 1 Year from Now	2 Years	5 Years	Education	Experience Required
53	54	54	55	None	No
40	41	42	44	None – High Sch.	Yes
30	33	35	36	None	No
22	23	23	23	None - 2 Yr. Deg.	Yes
21	22	23	24	High Sch.	Yes
19	20	20	21	None	No
13	15	17	17	None	Yes
13	14	16	16	None	No
13	13	13	14	Grad. Wk.	Yes
12	13	13	14	None	No
9.	11	13	13	None	No
			,		F. 10
					لوير ويؤة من وليوادة الا
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	Current #     of Employees  53 40 30 22 21 19 13 13 13	Current # of 1 Year Employees from Now  53 54 40 41 30 33 22 23 21 22 19 20 13 15 13 14 13 13 12 13	Current # of Employees       1 Year from Now from Now       2 Years from Now         53       54       54         40       41       42         30       33       35         22       23       23         21       22       23         19       20       20         13       15       17         13       14       16         13       13       13         12       13       13	of Employees         1 Year from Now         2 Years from Now         5 Years from Now           53         54         54         55           40         41         42         44           30         33         35         36           22         23         23         23           21         22         23         24           19         20         20         21           13         15         17         17           13         14         16         16           13         13         14         14           12         13         13         14	Current # of Employees         1 Year from Now from Now         2 Years from Now from Now         5 Years from Now From Now From Now Required           53         54         54         55         None           40         41         42         44         None - High Sch.           30         33         35         36         None           22         23         23         24         High Sch.           19         20         20         21         None           13         15         17         17         None           13         14         16         16         None           13         13         13         14         Grad. Wk.           12         13         13         14         None



Occupational Category 26.1900 170800	Proje	ected Number	of Employee	25		
Printers/Newspapers/Photographers	Current # of Employees	1 Year from Now	2 Years from Now	5 Years from Now	L .	Experience Required
Composing Room Personnel	190	194	295	197	None - High Sch.	Yes
Managers	165	168	171	176	None - 4 Yr. Deg	Yes
Printing Pressmen & Assistants	136	141	145	149	None - High Sch.	Yes
Sales People	140	141	143	143	None - 2 Yr. Deg	Yes
Circulation Personnel	100	100	100	100	None High Sch.	No
Editors	78	79	80	81	4 Yr. Deg None -	5
Bookkeepers	66.	69	71	74	High Sch.	Yes
Newspaper Reporters	71	71	71	71	4 Yr. Deg None =	Yes
Laborers/Paper Handlers	50	, <b>52</b> ,	55	60	High Sch	No
Drivers	49	49	49	49	None	No
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Froject # Of Employees	1 Year from Now	of Employees  2 Years from Now	5 Years	Minimum Education	
of Employees	i i	1	1 -		,
106		1	from Now	I .	Experience Required
,	110	111	118	None	Yes
60	65	66	75	None	Yes
38	38	38	39	None None	Yes
20	22	22	25	2 Yr. Deg.	Yes
15	15	16	17	High Sch.	Yes
14	14	14	15	None -	Yes
13	14	14	15	4 Yr. Deg	Yes
10	10	10	11	I .	No
6	8	8	1()	None -	Yes
7	8	8	8	1	Yes
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	i,				
	20 15 14 13 10 6	20 22 15 15 14 14 13 14 10 10 6 8 7 8	20     22     22       15     15     16       14     14     14       13     14     14       10     10     10       6     8     8       7     8     8	20     22     22     25       15     15     16     17       14     14     14     15       13     14     14     15       10     10     10     11       6     8     8     10       7     8     8     8	20 22 22 25 2 Yr. Deg.  15 15 16 17 High Sch.  14 14 14 15 None  None -  Yr. Deg.  None -  Yr. Deg.  None -  Yr. Deg.

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Occupational Category						:
26, 2300 171900	Proje	cted Number	of Employees	}		
Manufacturing/Machine Shops	Current # of Employees	1 Year from Now	2 Years from Now	5 Years from Now	Minimum Education Required	Experience Required
Assemblers/Production Workers	3119	3740	4037	4335	None - 2 Yr. Deg. None -	No
Inspectors	799	846	879	911	2 Yr. Deg. None -	No
Managers	642	684	733	810	Grad. Wk.	Yes
Foremen/Supervisors	547	591	637	691	None - 4 Yr Cert	Yes
Engineers	472	561	636	719	None - Grad. Wk.	Yes
Electronic Technicians	344	405	451	536	None - 1 Yr Cert	No
All-around Machinists	313	357	384	429	None - 4 Yr. Deg.	Yes
Manufacturers Sales Reps.	333	356	380	432	None - 4 Yr. Deg.	Yes
Secretaries	290	323	361	426	None - 4 Yr Cert,	Yes
Electricians	226	268	321	334	None - 2 Yr Deg,	Yes
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;	Occupational Category						•
	26,3201 171503		cted Number	of Employees			
,	Utilities/Energy Sources	Current # of Employees	1 Year f <u>rom Now</u>	2 Years from Now	5 Years	Minimum Education Required	Experience Required
	Deliverymen	12	9	9	i T	None	No
	Clerks	10	. 6	6	6	None	Yes
:	Servicemen	6	6	6	6	None	No
	Welders	6	6	6	6	None	Yes
	Laborers	- 6	6	6	6	None	No
	Sales People	- 5	5	5	5	None	Yes
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Occupational Category						
26,9907 160600	1	ted Number	of Employees			
Radio Stations	Current # of Employees	1 Year from Now	2 Years from Now	5 Years	Minimum Èducation Required	Experience Required
Kadio stations						:
Radio Service Technicians	25	25	30		2 Yr. Deg, None -	No
Sales People	27	27	27	ľ	High Sch.	No !
Radio Announcers	17	17	17	17	1 Yr Cert	Yes
Telephone Operators	8	10	12	12	High Sch.	No
Secretaries	7	8	8	8	2 Yr, Deg, 1 Yr Cert	Yes
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27.022 172205	Pro					
Security	Current # of Employees	1 Year From Now	2 Years from Now	H	Minimum Education Required	Experienc Required
Security Officers	452	497	547	815	None	Yes
Watchman	200	210	215	230	None ·	No
Stadium Personnel	15	15	15	15	None	No No
Supervisors	8	8	10	15	2 Yī; Deg,	No
Patrolmen	0	0	10	25	None	No
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Occupational. Category	,					
27.0300 090297	Projected Humber of Employees					
Schools/Universities	Current # of Employees	1 Year from Now	2 Y ears from Now	5 Years from Now	Minimum Education Required	Experience Required
			1		None -	
Instructors	205	226	233	252	4 Yr. Deg	Yes
Se cre taries	57	61	65	66	None - 2 Yr. Deg	Yes
Cu stodi ans	55	59	61	63	None – High Sch.	Yes
Grounds keepers	39	41	43	43	None	Yes
Ac counting Clerks	17	19	19	21	None – 2 Yr. Deg	Yes
Admissions/Registration Coordinators	17	17	19	19	''one - Yr. Deg	Yes
Clark Typists	16	17	19	19	High Sch.	Yes
Student Advisors	15	16	17	17	None - Grad. Wk.	Yes
Admissions/Registration Clerks	14	1 4	16	16	High Sch. 2 Yr. Dec	1 65
Records Specialists	12	1 👫	16	16	High Sch. Grad. Wk.	
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	Occupational Category 27.0800 173200	Oro	lected Numbe	r of Employe	es		
	27.0800 173200 City Government	Current # of Employees	1 Year from Now	2 Years from Now	5 Years from Now	1	Experience Required
	Police Officers	733	748	773	856	None - High Sch.	No.
	Firefighters	319	334	355	335	Kone – High Sch.	Yes
	Municipal Maintenancem <b>e</b> n	191	197	203	208	None – High Sch.	Yes
	Maintenance Mechanics	186	186	188	188	None – High Sch.	Yes
	Clerk Typists	139	140	142	149	None – High Sch.	No
	Police Sergeants	127	130	134	142	None = 2 (r. Deg.	Yes
	Driver/Engineers	124	127	130	136	None = High Sch.	Yes
	Fire Lieutenants	105	107	111	115	None - 2 Yr. Deg,	Yes
	Police Aides	111	111	111	111	None – High Sch.	No
	General Maintenance	101	101	101	101	None – High Sch.	No
	Secretaries	78	78	79	84	None -   Yr Cert	Y es
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Provided	C.		<del> </del>	<del></del>			

### HIGHEST PROJECTED DEMAND OCCUPATIONS

(based upon 2-year projections)

OCCUPATIONAL TITLE	TWO-YEAR PROJECTIONS
Sales	4724
Assemblers/Production	4037
Managers	3586
Waiters/Waitresses	3386
Registered Nurses	2281
Nurses Aides	1910
Housekeeping Personnel	1844
Secretaries	1451
Bookkeepers	1234
Cooks & Chefs	1226

Occupational Category	
Nurseries/Florists/Landscapers	Projected 5-Year Growth
21.0000 010000	(Percentage)
Irrigation Specialists Sales Representatives Floral Designers Laborers Floral Consultants Agricultural Foremen	100 100 67 63 50 50
Taxidermist 21.0101 010101	Projected 5-Year Growth (Percentage)
Secretaries	50
Bookkeepers	50
Pest Control Services	Projected 5-Year Growth
21.0200 160200	(Percentage)
Route Supervisors	100
Bookkeepers	50
Monthly Salespeople	33
Termite Control Salespeople	33
Lawn Control Salespeople	33



Occupational Category	
Golf Courses/Country Clubs	Projected 5-Year Growth
21.0300 010300	(Percentage)
Office Machine Operators	50
Auto Dealerships	Projected 5-Year Growth
22.0300 040300	(Percentage)
Courtesy Drivers	44
Automobile Trimmers/Installers	36
Air Conditioning Mechanics	33
Auto Leasing	Projected 5-Year Growth
22.0300 040300	(Percentage)
Drivers Automobile Mechanics Reservationists Dispatchers	58 53 40 33



Projected 5-Year Growth
(Percentage)
140
92
89
86
86
75
75
67
67
64
Projected 5-Year Growth
(Percentage)
75
67
60
57
56
56
52
51
50
50
50



Occupational Category	
	·
Stock Brokers 22.0450 040406	Projected 5-Year Growth (Percentage)
Margin Bookkeepers	200
Sales Assistant Secretary	140
Stock Brokers	118
Retail Grocers/Wholesalers	Projected 5-Year Growth
22.0600 040600	(Percentage)
Branch Managers Cashiers Meat Cutters Produce Wrappers Managers Route People Office Machine Operators Parking Personnel	100 63 50 50 44 44 43 33
Food Services	Projected 5-Year Growth
22.0700 040700	(Percentage)
Secretaries	83
Cooks & Chefs	69
Cashiers	67
General Building Maintenance	50
Bookkeepers	50

Occupational Category	
Hotels/Restaurants 22.1100 041100	Projected 5-Year Growth (Percentage)
Valets Banquet Stewards Parking Attendants Life Guards Laundry Managers Accounts Payable Clerks Reservation Clerks Air Conditioning Mechanics Food Checkers House Stewards	79 58 51 50 43 38 38 38 38 36
Restaurants/Nightclubs 22.1100 041100	Projected 5-Year Growth (Percentage)
Waiters & Waitresses Grillmen Closers Food Checkers Managers Cashiers Cooks & Chefs Secretaries Stock Room Help Purchasing Agents	222 200 200 193 189 79 72 64 57 53



Occupational Category	
Insurance Cos./Property Mgmt.	Projected 5-Year Growth
22.1300 041700	(Percentage)
Salespeople Pension Specialists Insurance Agents/Brokers Sales Managers/Supervisors Telephone Solicitors Bookkeepers	154 100 64 50 40 33
Petroleum Services	Projected 5-Year Growth
22.1600 041600	(Percentage)
Tankermen	100
Shift Leaders	67
Painters	50
Service Technicians	50
Terminal Operators	33
Real Estate/Land Development	Projected 5-Year Growth
22.1700 041700	(Percentage)
Engineering Technicians	100
Draftsmen	38
Survey Instrument Men	38
Survey Party Chiefs	33

Amusements/Race Tracks	Projected 5~Year Growth
22.1800 041800	(Percentage)
	No growth projected
Trucking/Moving/Delivery	Projected 5-Year Growth
22.1900 041900	(Percentage)
Claims Adjustors Telephone Solicitors Telephone Operators Shipping & Receiving Clerks Truck Driver's Helpers Storage Managers Warehouse People Bookkeepers Moving Consultants Operations Supervisors File Clerks	300 100 80 80 78 60 58 50 45 36



occupational category	
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Department Stores/Retail Bus.	Projected 5-Year Growth
22.2000 042201	(Percentage)
Jewelry/Watch Repair Cashiers Public Relations/Adv. Pers. Credit Officials Computer Operators Department Managers Advertising Artists Security Personnel Office Machine Operators Programmers	133 61 60 50 49 43 43 43 40
Hospitals/Medical Services 23.0000 070000	Projected 5-Year Growth (Percentage)
Programmers Bio-Medical Technicians Medical Assistants Homemaker/Home Health Aides Ultra-Sound Technologists Medical Records Technicians Nurse Clinicians Cardio-Pulmonary Tech. Radiation Therapy Tech. Lab Technologists	400 300 100 73 64 39 38 37 35



Occupational Category		
Mortuary Services	Projected 5-Year Growth	
23.0909 160519	(Percentage)	
intern Funeral Directors Intern Embalmers Lead Directors	100 67 33	
Maid/Cleaning Services 24.0205 090699	Projected 5-Year Growth (Percentage)	
Secretaries Sales People Driver/Managers Maids	150 100 64 39	
Accounting/Computer/Comm. 25.0100 140100	Projected 5-Year Growth (Percentage)	
Receptionists Repairmen Tax Preparers Computer Technologists Service Representatives Housekeeping Personnel	96 86 52 50 37 33	
Employment Services 25.0600 140600	Projected 5-Year Growth (Percentage)	
Key Punch Operators	614	

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Occupational Category	
Construction 26.1000 170900	Projected 5-Year Growth (Percentage)
Tile Setters Roofers Painters/Paper Hangers Shingle Layers Pre-cast Installers Payroll Clerks Security Personnel Sheet Metal Workers	200 90 84 78 75 67 67
Architectural Occupations 26.1011 160103	Projected 5-Year Growth (Percentage)
Architectural Drafters Technical Writers Interior Designers	200 100 50
Pool Maintenance Services 26.1106 171006	Projected 5-Year Growth (Percentage)
	No growth projected

Occupational Category	
Laundries/Dry Cleaning	Projected 5-Year Growth
26.1600 172500	(Percentage)
Cashiers/Counter Sales People Spotters Checkers Bookkeepers	86 50 44 40
Printers/Newspapers/Photog. 26.1900 170800	Projected 5-Year Growth (Percentage)
Book Binders Inspectors Typists Purchasing Agents Mechanical Artists Statistical Clerks Bindery Specialists/Tech. Duplicating Equip. Operators	63 50 50 50 50 38 38 38
Ship Builders 26.2202 171805	Projected 5-Year Growth (Percentage)
Fiberglass Laminators	67
/	

Occupational Category	
Manufacturing/Machine Shops 26.2300 171900	Projected 5-Year Growth (Percentage)
Contract Administrators Profile Operators Product & Material Control File Clerks Pipefitters Tool & Die Makers Pnt. Grinders/Shaders/Fillers Real Time Programmers Programmers Electronic Technicians	213 91 88 82 79 76 70 67 56 56
Energy Sources/Utilities 26.3201 171503	Projected 5-Year Grow: (Percentage)
Installers Clerks	50 40
Radio Stations	Projected 5~Year Growth
26.9907 160600	(Percentage)
Telephone Operators Radio Service Technicians	50 40

Securi ty	Projected 5-Year Growth
27.0202 172205	(Percentage)
Bookkeepers Supervisors	200 88
Security Officers	80
Office Managers	50
Investigators/Inspectors	50
Schools/Universities	Projected 5-Year Growth
27.0300 090207	(Percentage)
Student Activities Specialists	300
Textbook Buyers	200
Graphics Technicians	200
Computer Operators	133 100
Asst. Executive Secretaries	100
Buyers Gardeners	100
Graphics Illustrators	100
Mail Clerks	100
Personnel Specialists	100
Programmers	100
Television Engineers	100
Vehicle Maint. Supervisors	100
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City Government	Projected 5-Year Growth
27.0800 173200	(Percentage)
Plumbing Inspectors 1 Property Control Clerks Mobile Parts Expeditors Landscape Inspectors 1 Planning Technicians Computer Operators 1 Mechanical Inspectors Plumbers (Maintenance) Victim Ombudsmen Battalion Chiefs Buyers	157 150 100 100 67 50 50 50 40

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