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ABSTRACT

The purpose of this document is to provide educational researchers and administrators with the material needed to replicate the study, Assessment of School-Supervised Work Education Programs, within a sphere of interest limited geographically, vocationally, or in other functional ways. The procedures used to carry out this study and produce its products are briefly described. Included are sections on establishing the advisory committee, conducting a literature search, obtaining program nominations from individuals, designing and distributing a preliminary questionnaire, developing a typology and selecting programs for intensive study, designing interview schedules, collecting data, processing data, and planning and conducting the data analysis activities. The complete set of products developed for the project is described and included. (MS)



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REPLICATION HANDBOOK AN ASSESSMENT OF SCHOOL-SUPERVISED WORK EDUCATION PROGRAMS

STEVEN M. FRANKEL, Ed.D CLEONE L. GEDDES EMILY H. ALLISON

14 SEPTEMBER 1973

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14 SEPTEMBER 1973

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We were fortunate to have the service of an Advisory Committee that helped define the study and carry out specific tasks for us. The members of the Advisory Committee were Dr. Wanda Kay Baker, Dr. Trudy Banta, Mr. John Burnell, Mr. Samuel Burt, Dr. Larry Davenport, Dr. George Ebey, Mr. Arthur Humphrey, Jr., Dr. Jacob Kaufman, Dr. William Morris, Dr. Harry Silberman, Dr. Douglas Towne, and Mr. Francis Parker Wilber.

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LIST OF PROJECT PUBLICATIONS .

- Banta, Trudy, Steven Frankel, Sylva Bowlby, and Cleone Geddes. A Topical Bibliography of Work Education Programs, Projects and Procedures. System Development Corporation, Santa Monica, Ca., 1973, 124 p. (Technical Memorandum-5086/000/00)
- Cohen, Alan, and Steven Frankel. <u>Jata Analysis Report, An Assessment of School-Supervised Work Education Programs</u>. System Development Corporation, Santa Monica, Ca., 1973, 270 p. (Technical Memorandum-5195/001/00)
- Frankel, Steven. Executive Summary, An Assessment of School-Supervised Work
 Education Programs. System Development Corporation, Santa Monica, Ca.,
 1973, 19 p. (Technical Memorandum-5195/003/00)
- Frankel, Steven, and Alan Cohen. <u>Selection Procedures Report</u>. System Development Corporation, Santa Monica, Ca., 1973, 27 p. (Technical Memorandum-5061/000/00)
- Frankel, Steven, Emily Allison, and Cleone Geddes. <u>Case Studies of Fifty</u>
 Representative Work Education Programs. System Development Corporation,
 Santa Monica, Ca., 1973, 338 p. (Technical Memorandum-5195/000/00)
- Frankel, Steven, Alan Cohen, and Mar, Ann Millsap. A Directory of Representative Work Education Programs. To be published by the Government Printing Office for the U.S. Office of Education in Fall 1973, 327 p.
- Frankel, Steven, Cleone Geddes, and Emily Allison. Replication Handbook,
 An Assessment of School-Supervised Work Education Programs. System
 Development Corporation, Santa Monica, Ca., 1973, 140 p.
 (Technical Memorandum-5195/002/00)

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I. INTRODUCTION

The study, An Assessment of School-Supervised Work Educatio Programs, was conducted for the Office of Planning, Budgeting and Evaluation (OPBE) of the U.S. Office of Education (USOE) by System Development Corporation (SDC) to examine the different configurations of work education programs which current exist in the United States; to determine to what degree the different types of programs are meeting their intended objectives; and to suggest ways in which different types of programs might be modified or expanded. For the purposes of this study, work education refers to a variety of the rangements in which students work at paying jobs at the same time that the are attending school, with the school responsible for the students work experiences.

In 13 months, the project team produced the following products:

- A set of 50 case studies of work education programs which the project team studied in depth.
- A statistical analysis report based on more than 2,300 detailed interviews conducted at the 50 program sites.
- A bibliography of work education references with approximately 1,000 citations.
- A directory describing the basic characteristics of approximately
 550 work education programs with which this project made contact.
- Seven interview schedules.
- Numerous working papers including a selection procedures report, two
 OMB clearance packages, a data analysis plan and a sampling plan.
- An executive summary report.
- A replication handbook.

The purpose of this document is to provide educational researchers and administrators with the material needed to replicate this study, in part or in whole, within a rore limited sphere of interest. These spheres of interest



might be limited geographically (e.g. replicate the entire study for a single city or State), vocationally (e.g. replicate the study looking only at automotive mechanics programs), or in several other functional ways (e.g. examine only career education programs or only programs operating at the postsecondary level).

In addition to providing researchers with the material needed to replicate the study, the information contained in this document can facilitate totally diverse uses. Thus, the typology might be used in a study with entirely different objectives or it might be used to organize a bibliography. Similarly, some of the questions on the student interview schedules might be used by a high school guidance counselor for determining what certain youngsters do with their time when they are not attending school.

In the Methodology section, the procedures used to carry out this study and produce its products are briefly described. Included are sections on establishing the advisory committee, conducting a literature search, obtaining program nominations from individuals, designing and distributing a preliminary questionnaire, developing a typology and selecting programs for intensive study, designing interview schedules, collecting data, processing data and planning and conducting the data analysis activities. The complete set of products developed by the project staff is described in Section III.

The attached appendixes contain excerpts from the actual project documents. Copies of complete documents are available through the Office of Planning, Budgeting and Evaluation of the U.S. Office of Education.



II. METHODOLOGY

The researchers approached the required information collection and interpretation with the following steps:

- Establishing working relations with officials, organizations, and other information sources and an advisory committee.
- Collecting and analyzing existing information on the identity and characteristics of successful or noteworthy programs.
- Developing a preliminary typology plus a list of key features of programs to be studied.
- Developing and distributing a brief mail questionnaire to collect additional data on key program features.
- Refining the typology and the list of features and classifying all identified programs.
- Establishing a sample of 50 programs for intensive data collection.
- Designing and pretesting interview schedules to be used for gathering information on 50 programs.
- Collecting detailed information on the features and conduct of the
 50 work education programs.
- Processing the data to prepare it for entry into a machine-readable data base.
- · Analyzing the data.

Each of these operations is described in the following pages.

A. Advisory Committee

The project advisory committee was instrumental in providing advice, suggesting plans Icr the project and soliciting support. It consisted of national authorities in the field of vocational education. The members were:

Dr. Wanda Kay Baker

Dr. Baker is an educational sociologist specializing in minority group relations.



Dr. Trudy Banta

Dr. Banta is a faculty member at the University of Tennessee and is the co-author, with Dr. Douglas Towne, of <u>Job Oriented Work Education Programs</u> for the Disadvantaged.

Mr. John Burnell

Mr. Burnell is the Director of the New York City Contral Labor Council (AFL-CIO). In this capacity he has had a great deal of input into work aducation programs operating in New York City. He is particularly knowledgeable regarding work education programs for the disadvantaged.

Mr. Samuel Burt

Mr. Burt is the author of numerous publications and has an extensive background in the theory and practice of work education. He is special assistant to the Dean of the College of Continuing Education at American University.

Dr. Larry Davenport

Dr. Davenport is Chairman of the National Advisory Council for Vocational Education and Vice President of Tuskegee Institute.

Dr. George Ebey

Dr. Ebey was the director of an evaluation of work education programs funded by the State of Caifornia for the 1970-1971 school year. He is the director of a research and consulting organization, George Ebey Associates, and has evaluated and operated many different types of vocational education programs.

Mr. Arthur Numphray, Jr.

Mr. Humphrey is presently a staff member of the National Institute of



Education's Employer Based Career Education project. Formerly he was responsible for administering several work education programs for the Chase Manhattan Bank.

Dr. Jacob Kaufman

Dr. Kaufman is a Professor of Economics and Director of the Institute on Human Resources at the Pennsylvania State University.

Dr. William Morris

Dr. Morris is a consultant in evaluation in vocational education and is under contract to the Office of the Chancellor of the California Community Colleges. His area of specialization is postsecondary work education programs.

Dr. Harry Silberman

Dr. Silberman is a Professor in the School of Education at the University of California at Los Angeles. He was formerly Associate Commissioner in the U.S. Office of Education.

Dr. Douglas Towne

Dr. Towne is Director of Vocational, Technical, and Instructional Products for the Northwest Regional Laboratory for Education. He has done extensive research and instructional development in both the areas of work education and career education.

Mr. Francia Parker Wilber

Mr. Wilber is President Emeritus of Los Angeles Trade-Technical College, one of the largest and most advanced postsecondary technical training institutions in the United States.



The committee was responsible for developing a series of operational definitions defining the types of programs to be examined, defining operational units within program sites to be subjected to intense scrutiny, assisting in the development of the classification typology (Appendix A) and approving the project sampling plan.

Individual members of the advisory committee were used as consultants in other phases of the project. Thus, Dr. Jacob Kaufman, Dr. George Ebey, and Dr. Harry Silberman developed some of the interview schedules; and Dr. Trudy Banta was the principal author of the work education bibliography.

B. Literature Search

In order to establish a background on work education programs, to gather pertinent information on the characteristics of desirable work education programs and to identify noteworthy programs of possible interest to the study a search of the professional literature was conducted to identify citations and abstracts pertaining to work education.

The primary tool used was SDC's automated retrieval system SDC/ERIC. This is an educational information search service which interactively retrieves document citations and abstracts from the ERIC data base and from other current educational materials stored in SDC's large-scale, time-shared computer in Santa Monica. Several searches were made using appropriate descriptors and terms related to work education. The resulting collections of abstracts were then checked by a researcher, and a list of potential programs was compiled. Also, literature pertinent to the background of the study was secured and examined. In addition to the ERIC search, a comprehensive search was made at the UCLA Library of the Education Index, Dissertations Abstracts, Readers Guide to Periodical Literature and the Business Periodical Index. With the resulting information and that provided by the USOE Project Officer, a card file was constructed, summarizing all citations of potential



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use in the project. The listing in this file provided the foundation of the publication, SDC-TM-5086/000/00, A Topical Bibliography of Work Education Programs, Projects and Procedures, a product of the study described in Section III.

C. Program Nominations

To supplement the list of programs revealed by the literature search, Chief State School Officers, Directors of Secondary Vocational Education, Directors of Community Colleges, Education Directors of the State Chambers of Commerce, the Presidents and Executive Secretaries of the Advisory Committees for Vocational Education, Superintendents of Education in the Great Cities, and consultants of national repute were sent letters (Appendix B) asking them to recommend programs which they felt were representative of a diversity of work education programs with which they were acquainted. In response to these letters, names of more than 1,000 programs were submitted to the project staff.

Once these program names were received, the director of each program was sent a letter (Appendix C) describing the study and was asked to complete the questionnaire described below to provide information which could be used as a basis for determining the 50 programs around which case studies would be developed.

D. Design and Distribution of the Questionnaire "Characteristics of Work Education Programs", for Preliminary Site Selection

Guided by the constraints of the study, the project staff designed the questionnaire, "Characteristics of Work Education Programs" (Figure 1) to be sent to nominated programs in order to obtain sufficient information to determine whether or not the program met the requirements of the study and to enable the program to be placed in the appropriate cell of the program typology from which the sample of programs would be drawn for more intensive



	_	Figure 1. Characteristics of Work Educa	ation Programs Questionnai	re (1 of 2)
		Please return this Questionnaire to: Ms. Cleone Geddes System Development Corporation 2500 Colorado Avenue Santa Monica, California 90406 (For a Study Sponsored by the Bealth, Education and Welfare,	DUCATION PROGRAMS U.S. Department of	- 51-S 72051 AL EXPTRES: June 1973
		1. Program identification information: a. Program name b. Program Director's name, address, phone number c. Name of school(s) where program is in operation		
d. District name/ address, and phone number e. Name of district superintendent or college president				
	2.	Are most of the students in your program paid for the work they do at the job sites? a. Yes b. No If answer to this question is no aid program is not in health occupations, return form to above address without completing questionnaire. 3. Was this program in operation during the 1971-72 school year and will it continue to be in operation during the 1972-73 school year? a. Yes b. No C. Not Sure if answer to this question is no, return form to above address without completing questionnaire.	8. In which occupational areas are so working? (Check all answers that a. Agriculture (food production forestry, otc.) b. Distributive education (adversary, etc.)	apply) n, agricultural mechanics, extising; sales, retail
	4:	This study is especially concerned with programs in which the school, as opposed to the employer, is the agency primarily responsible for determining the specific objectives of the program, evaluating the degree to which the objectives are being met, and having the final may as to the type of work experiences to which the students are exposed at the job site. Does your program meet these constraints?	c. Health occupations (nursing, rehabilitation, etc.) d. Occupational home economics decorating, etc. e. Office occupations (bookkeepetc.)	(food management, home
		a. Yes b. No (please explain) At which education level does this program operate? a. Secondary level b. Post secondary, probaccaluateate level c. Other (please explain)	f Technical occupations (engir pilot training, etc.) q.[]Trade and industrial occupat aircraft maintenance, construction of the categorie occupations should be placed of those occupations below.	ions (appliance repair, uction, etc.)
	6.	The primary purpose of the program is to: (please eneck only one answer) a. Train students to walk in a specific occupational area. b. Familiarize students with the world of work and/or different occupational areas (e.g., career exploration). c. Frevent the student from dropping out of school through income supplements, removal of student from the traditional classicom for part of the day, etc.	9. Approximately what percentage of the students in your program represent minority ethnic or racial groups (e.g. Blacks, chicanos, Oriental, American Indian, etc.)?	10. Approximately what percentage of the students in your program are physically handicapped?
}-	1.	check the statements below which accurately describe your program. (Check all answers that apply) a. Job related instruction is not a component of this program. b. The school provides job-related instruction at the job site. c. The school provides job-related instruction in the school	in your program are female? 1. 13. Which of the following best describes (25 mile radius) in which your school	the age of 16 in your program and working for pay? a. Yes b. No
		building. d. The employer provides job-related instruction at the job site. e. Other arrangement for job-related instruction (please explain).	a. Farming region b. Bedroom community with only c. Community whose economy is to single industry (other than d. Major industrial/business co	neavily dependent upon a farming)
Full Text Pr	ovided by ERIC			

Figure 1. Characteristics of work Education	Programs Questionnaire (2 of 2)		
14. Job sites to which students are assigned are located: a. On school property b. On businesses off school property	18. In addition to support made available to your program from the usual sources (parent institution, school district, state government, federal government, local taxes), please indicate the types of support made available to your program from other sources by checking the appropriate boxes.		
c.[Other (please explain)			
15. Which statement best approximates the relationship between time spent in the classroom and time spent at the job site by students in your program? a. More than 80% of time spent in the classroom b. 75% of time spent in the classroom and 25% of time spent at job site c. 50% of time spent in the classroom and 50% of	Industry Labor unions Poundations Student tuition of fees Other		
time spent at job site d	19. Are employers participating in your program reimbursed for a portion of their training and student salary sxpenses? a. No b. Yes (please list the reimbursable expenses) 20. Do students in your program receive school credit for the time spent at the job site? a. No b. Yes (please list the reimbursable expenses) 21. What is the 1972-73 enrollment in your school? district?		
time to independent work c. 50% of time at job site devoted to OJT and 50% of time to independent work	22. What was the approximate number of students in the program during the 1972-72 school year? 23. What is the program enrollment for the 1972-73 school year?		
d. 25% of time at job site devoted to OJT and 75% of time to independent work e. More than 80% of time at job site devoted to independent work 17. Please indicate the types of personnel included in your program staff by checking the appropriate boxes.	24. Approximately what percentage of the students completing your program during the 1971-72 school year found jobs in the occupational field in which they worked while in your program? a		
Non-teaching program administrator/coordinator Program administrator/coordinator with teaching responsibilities Guidance/career counselor Job placement specialist Probation/corrections specialist Psychologiat/psychiatrist Program recruiter Instructor or teacher paid by school Instructor or teacher paid by employer Other (please explain) Other (please explain)	 25. What is the extent of union participation in the work portion of the program? a. No union within occupational work site. b. Unionized work site but no active union participation in program. c. Unionized work site with active union participation in program. d. Unionized work site with union taking primary responsibility for program. 26. Using the space allocated below, please provide us with a brief summary of the most important features of your program. Re sure to include information pertaining to particularly innovative or interesting facets which set your program apart from others. 		
Much of the information supplied on this form will be included in a Directory of Self-Described Work Education Programs to be published in Pebruary, 1973. If there is any information which you do not wish to have included in this Directory, or if you do not want your program included in this Directory, please list your requirements below.			

study. The questionnaire was pretested at a Job Corps site and a local school and revised. It was then submitted for OMB clearance which is required for all data collection instruments used on this type of government sponsored project.

Upon receipt of program nominations, personalized letters were prepared on an IBM magnetic tape selectric typewriter (MTST) and sent to each program director notifying him that his program had been nominated as being of possible interest to the educational community at large (see Appendix C). Copies of the question-naire along with the letters of explanation were sent to the approximately 1,000 nominated programs. After a 2-week period, telephone calls were made to follow up and request the cooperation of sites which had not replied. Over 600 questionnaires were returned from the 50 States and several territories. Of these, 550 were determined to meet the requirements of the study (e.g., being in existence for at least 1 year and, with the exception of clinical programs, having a work-for-pay component). Data from the question-naires were transcribed to forms, keypunched and inserted into a computer data base.

E. Development of Typology and Program Selection

While a preliminary typology was developed early in the project with the assistance of the Advisory Committee (see Appendix A), it was deemed advisable to delay final structuring of the typology until it was possible to examine the descriptive program information secured from the preliminary questionniare. Using both existing computer programs and new ones developed for this purpose, the data were sorted and several different selection matrix configurations were examined. In addition to totals for the different matrix configurations, the system described the key characteristics and identified each program within each cell of the matrix.



After extensive manipulations, six factors were isolated for incorporation into the program selection process:

Factor A - Educational level

Secondary
Postsecondary
Other (junior high, combined secondary-postsecondary,
Job Corps)

• Factor B - Primary purpose

Training in specific occupational area Career exploration
Dropout prevention
Other

Factor C - Industrial setting of community in which program operates

Farming region

Bedroom community

Single industry (except farming)

Major industrial/business center

• Factor D - Active labor union participation in program

Yes No

- Factor E Especially significant for some particular reason (mandatory inclusion)
- Factor F Geographic location of program

10 USOE regions

Each of the responding programs was fitted into a matrix whose dimensions were factors A, B and C. This matrix served as the basic sampling frame for selection of the 50 sites to be subject to intensive study.

There were 33 cells in the matrix into which the universe of programs fell. To insure the widest possible range of sites in terms of the basic factors, one program was chosen from each cell. Then an additional program was selected from each of the 14 cells that contained at least 11 cases, one program was selected from the largest cell, one mandatory program was included and the 50th selection was used to correct geographic inbalance. A more complete description of the selection process was published in SDC TM-5061/000/00,

A useful byproduct was produced as a result of the program selection process. The data which had been assembled in a computer data base was reformatted and produced as a directory. The document, A Directory of Representative Work Education Programs, will be published by the Government Printing Office for USOE in the Fall of 1973. It contains a listing of over 550 work education programs currently underway in the United States. It was felt that the directory when used in conjunction with its indexes and its table of contents, would prove a valuable source of identifying programs with particular features, and in developing a better understanding of the wide breadth of program configurations operating in the work education field.

F. Design of the Interview Schedules

Three members of the Advisory Committee, Dr. George Ebey, Dr. Jacob Kaufman, and Dr. Harry Silberman, participated with the project staff in the initial design of the interview instruments. As models, the group used questionnaires which they and other members of the Advisory Committee supplied from studies with which they were familiar or had conducted. Separate schedules were designed for structured interviews with students, employers, union representatives, and school personnel participating in work education programs and for nonparticipating students, employers and union representatives. All of the interview guides except for the student forms (participating and nonparticipating) were designed to be used in one-to-one interview situations. The student forms were designed to be used in group interview situations. A total of seven schedules were designed:

Schedules I - Program Information - Parts A & B

II - Participating Students

III - Nonparticipating Students

IV - Participating Employer

V - Nonparticipating Employer

VI - Participating Union

VII - Nonparticipating Union



The interview schedules were pretested at three California program sites: A high school in Los Angeles County, a regional occupational center in Orange County, and a junior college in Orange County. One administrator, three students, and one employer were interviewed at each site. Any questions which appeared ambiguous or were too difficult during the pretests were revised or replaced with different questions. Several additional questions were added after "holes" in the flow of inquiries were discovered, and redundant questions were eliminated.

After pretesting and making revisions, the interview schedules were submitted to the Office of Management and Budget (OMB) for clearance. The OMB Package as it is referred to, contained the required OMB form, copies of each interview schedule and supporting statements to justify their utilization and contents. Copies of the final type version of the interview schedules as approved may be found in Appendix D.

G. Data Collection

After the 50 programs had been selected for the study and all interview forms had been cleared through OMB, preparation for data collection activities began.

1. Regional Coordination Meetings

The program director of each of the 50 programs was sent a letter (Appendix E) notifying him that his program had been selected for the study and inviting him or a designated site coordinator to a regional meeting in which the study would be described more fully and the coordinator's role would be explained. A short time later, each program director was contacted by telephone to confirm his participation in the study, to answer any questions and to make the necessary arrangements for his travel to the nearest one of three regional meetings. In attendance at each regional meeting were one or more project staff members and a member of the interview team for that region. A site



coordinator's package was distributed to each person attending. This package (refer to Appendix F) contained: A list of Work Education Programs chosen for the study; a short description of the study, Background of Work Education Study, An Assessment of School-Supervised Work Education Programs; Student, Employer and Union Sampling Procedures; the Site Coordinator's Check List; a Tentative Student Interview List; an Interview Team Assistance Form; a Work Education Project Travel Plan; a copy of the Selection Procedures Report (SDC TM-5061/000/00); and a copy of Schedule I, Program Information, Parts A & B (see Appendix D).

The program directors were requested to complete Schedule I, Part A, and return it to SDC at least 10 days before the site visit was scheduled to occur. They were given Part B in preparation for the interview team's visit at which time it would be completed. Finally, the site coordinators were asked to schedule appointments for the 2-day visit by the two-member interview team. Both members of the team were to be present at the interview with the program administrator and/or coordinator; the junior member of the team was to conduct both participating and nonparticipating student group interviews at different times, while the senior member of the team was conducting employer and union interviews at their places of business.

2. Training of Interviewers

All interview team members were assembled for a 2-day workshop to familiarize them with the project, to provide them with background information, and to review all interview forms and procedures for conducting the site interviews.

Each interviewer was subjected to a series of role playing activities in which each assumed the role of a coordinator, a participating and nonparticipating student or employer, and/or a union representative. These sessions were videotaped and each team member was critiqued as to his effectiveness as an interviewer as he watched himself perform on the playback monitor. Students from the local area also participated as interviewees.



Interview forms were assembled and shipped to program directors 2 weeks before a team's scheduled arrival, but as a precautionary measure, each team carried a supplemental set.

3. Site Visits

Interviews were conducted over a 2-month period by four interview teams consisting of two members each. Each team spent 2 days at their assigned sites to interview project personnel, participating and nonparticipating students, participating and nonparticipating employers and union personnel where they were involved in the running of programs.

The project personnel (program directors of coordinators, and school administrators) were interviewed by both team members on the first day at the site, followed by student interviews (conducted by one team member in classrooms or general assembly areas), and the employer and union interviews (conducted in most cases at the employer's place of business or the union local).

Interviews for the 50 sites selected for study were conducted in 32 states. In scheduling the extensive travel for the four interview teams, the Official Airline Guide was found to be very helpful. Also the information provided by each coordinator on the Interview Team Assistance Form (see Appendix F), was invaluable in facilitating reservations and orienting the interview teams to the different sites.

H. Data Processing

Upon completion of site visits, interviewers assembled to transcribe their notes and all information collected on the field survey instruments. The data fields were defined, and categories were established for classification of open-ended responses. Team members then transcribed the information for the sites they visited onto coding sheets in preparation for keypunching. At



this time, they also telephoned sites as necessary in order to fill in missing data or to resolve apparent inconsistencies. After insertion into the computer data base, the data were edited and processed using special programs. These editing programs examined the information within individual data fields and printed out any data values which were missing or inconsistent with standards which had been established for each field. While this procedure cannot account for all input errors it can catch the most damaging types of errors.

During the course of the interviews, much anecdotal and marginal material was obtained which could not be translated for computer analysis. To place the data in perspective, and present a picture of the setting for each work education program, case studies of each were developed. A format was established and each interview team was responsible for the writeup of all the sites it visited. This included 10-13 sites for each team. The case studies were reviewed for accuracy and completeness and where necessary, program personnel were again contacted by telephone to verify certain details or supply missing information. In one case, a second visit was made to a site where a great deal more information was required. The compilation of case studies was published as a separate document, Case Studies of Fifty

Representative Work Education Programs, SDC TM-5195/000/00, September 14, 1973.

I. Data Analysis

The document, An Assessment of School-Supervised Work Education Programs: Data Analysis Plan, as developed for this project, is included in its entirety in Appendix G. The complete plan presents the dependent, independent and intervening variable groups for the program, student, and employer data bases, their expected structural interrelationships, and the modes of analysis used.

A single set of statistical analysis programs, the Statistical Package for the Social Sciences (SPSS), developed by Norman Nie, Dale H. Bent, and C. Hadlai Hull proved equal to the task of doing nearly all of the analysis



called for by the data. The package provides very clear and readable output in all of its procedures. The statistical procedure was equally useful because of its powerful data editing manipulation capabilities. SPSS was supplemented by custom programs developed by the project's statistical programmer on an as-needed basis.



III. PRODUCTS

This study was structured around the production of a set of documents. A brief description of the contents and purpose of these products other than this document is listed below.

Frankel, Steven, Emily Allison, and Cleone Geddes. <u>Case Studies of Fifty</u> Representative Work Education Programs. System Development Corporation, Santa Monica, Ca., 1973, 388 p. (Technical Memorandum-5195/000/00)

This publication provides readers with a summary for each site pertaining to each program's history, organization, goals, student and faculty composition, work environment and mode of operation. Also included are discussions of the success which has been enjoyed by each program; unusual features inherent in the program or its operation, problems faced by the program with the methods by which staff members are attempting to alleviate these difficulties and miscellaneous impressions formed by the SDC interview team.

Cohen, Alan, and Steven Frankel. <u>Data Analysis Report</u>, An Assessment of School-Supervised Work Education Programs. System Development Corporation, Santa Monica, Ca., 1973, 270 p. (Technical Memorandum-5195/001/00)

This report contains the empirical findings based on results from the student, program, employer and union data. Also this report contains recommendations for further study and a summary of the key findings.

Frankel, Steven, Alan Cohen, and Mary Ann Millsap. A Directory of Representative Work Education Programs. To be published by the Government Printing Office for the U.S. Office of Education in fall of 1973, 327 p.

This document contains information describing 550 work education programs currently underway in the United States. The contents of the directory were supplied by program directors and the respondents to the initial questionnaires Characteristics of Work Education Programs (referred to earlier), after their programs were nominated for inclusion in the study.



Frankel, Steven. Executive Summary, An Assessment of School-Supervised Work Education Programs. System Development Corporation, Santa Monica, Ca., 1973, 19 p. (Technical Memorandum-5195/003/00)

The executive summary contains highlights of the final report and is designed for use by persons primarily interested in principal findings and the overall methodology of the study.

Frankel, Steven, and Alan Cohen. <u>Selection Procedures Report</u>. System Development Corporation, Santa Monica, Ca., 1973, 27 p. (Technical Memorandum-5061/000/00)

This report describes the selection procedures which were used to identify the 50 program sites which were visited by interview teams. It also contains a listing of site data which was used in the selection process.

Banta, Trudy, Steven Frankel, Sylva Bowlby, and Cleone Geddes. A Topical Bibliography of Work Education Programs, Projects and Procedures. System Development Corporation, Santa Monica, Ca., 1973, 124 p. (Technical Memorandum-5086/000/00)

This document contains a collection of approximately 900 different bibliographic citations of work education programs which is the end result of the literature search for the project. This collection of references is extremely useful to other researchers and school personnel concerned with work education and vocational education.



A-1 (page A-2 blank)

APPENDIX A

OPERATIONAL DEFINITIONS AND PRELIMINARY

CLASSIFICATION TYPOLOGY



OPERATIONAL DEFINITIONS

Work Education Programs: This umbrella term describes a variety of arrangements whereby students are involved in the real work environment. It includes the cooperative student who is being paid for his services, the work study student who is receiving financial support to continue his studies, and the clinical student who is learning skills in an on-the-job environment. For the purposes of this study, only programs in which students are being paid (with the single exception of clinical programs in the health occupations field in which students may or may not be paid) will be included in this study.

School Supervised Work Education Program: A work education program where:

- a. The school determines the specific objectives of the program and is responsible for determining the degree to which these objectives are being met.
- b. The school directs the learning or real work experiences (workstudy programs which do not meet this constraint will still be included).
- c. All participants are currently enrolled students in the educational institution which is operating the program.

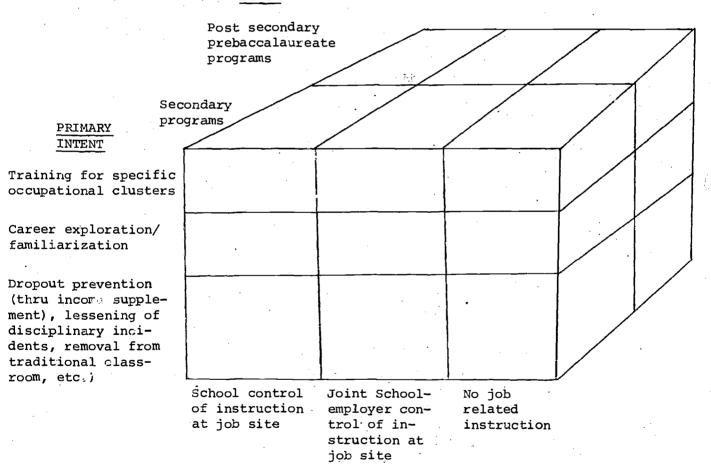
Program Site: An entity within a single school which is structured to meet a single type of program intent (either training for a specific career cluster, career exploration/familiarization, or dropout prevention) and which, in most cases, operates within a single occupational cluster. In the case of career exploration/familiarization programs and programs aimed at dropout prevention, a group of diversified work experiences may be substituted for the single occupational cluster requirement.



PRELIMINARY CLASSIFICATION TYPOLOGY

The Project Advisory Committee and the SDC project staff members developed the following preliminary classification typology:

EDUCATIONAL LEVEL



INSTRUCTIONAL ENVIRONMENT



Other factors which might have been included in the typology (ratio of work experience/formal instruction, occupational cluster, secondary programs allowing under 16 enrollees, geographic location, etc.) will instead be listed as program features and will be used to a limited degree in the process by which individual program sites will be selected from different cells of the matrix in order to arrive at the final total of 50 program sites.



B-1 (page B-2 blank)

APPENDIX F

SAMPLE OF FORM LETTER SENT TO CHIEF STATE SCHOOL OFFICERS

AND

LETTER TO OTHER KEY PEOPLE REQUESTING PROGRAM NOMINATIONS





DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE OFFICE OF EDUCATION WASHINGTON D.C. 20202 August 14, 1972

Dear Superintendent

In June of this year, the Office of Program Planning and Evaluation initiated the study, An Assessment of School-Supervised Work Education Programs, under contract with System Development Corporation (OEC-0-72-5024). The study is part of the FY 1972 Evaluation plan and the scheduled USOE data collection activities for FY 1973, as approved by the Committee on Coordinating Education Information of The Chief State School Officers.

Work education programs cover a variety of arrangements whereby students are involved in real work environments. The primary objectives of the programs include training for specific occupational areas, familiarization with the world of work and/or different occupational areas, and dropout prevention through income maintenance or other means.

The purpose of this study is to systematically examine a variety of promising secondary and postsecondary (prebaccalaureate) programs to determine successful program components, to delimit constraints on program expansion, and to determine the feasibility to expand work education programs and the necessary conditions under which expansion of various program types is possible.

To accomplish this purpose, State officials and local program personnel as well as representatives of industry and unions will be asked to recommend work education programs for consideration for inclusion in the study. After recommendations have been compiled and programs contacted, a directory of programs classified by type will be assembled for distribution. Fifty programs will be selected for in-depth case study consisting of interviews with program staff and students as well as interviews with participating and non-participating employers and unions. At the conclusion of the 15 month contract, a handbook and final report containing the case



studies and assessment of program characteristics, operating constraints and conditions for program expansion will be distributed widely.

Within the next few days, System Development Corporation will be sending you a letter outlining in more detail the scope of this study and the types of programs we would like to consider as well as the procedures for nominating programs. Other State officials, local program personnel and representatives of industry and labor are also being queried to assure the greatest breadth in nominations.

We are looking forward to including programs from your State in this study. If you have any questions about the study or wish additional information, please do not hesitate to contact me on 202-963-7568.

Sincerely yours,

Mary Ann Millsap

Office of Program Planning

and Evaluation



MAM:lje

SDC SYSTEM DEVELOPMENT CORPORATION

2500 Colorado Avenue, Santa Monica, California 90406

September 11, 1972

Dear

In June of this year, the U. S. Office of Education, Office of Program Planning and Evaluation initiated the study, An Assessment of School-Supervised Work Education Programs, under contract with System Development Corporation (SDC). The study is part of the FY 1972 evaluation plan and the scheduled USOF data collection activities for FY 1973. SDC is currently in the process or identifying a large sample of school-supervised work education programs throughout the nation. All of the identified programs will be listed in a Directory of Self-Described Work Education Programs to be published by USOE. Fifty of the programs will also be selected for intensive examination for the purpose of (1) identifying program components that are worthy of replication, (2) recommending incentives and policy changes that will serve to increase union and employer participation, and (3) determining the feasibility of expanding work education programs of various types through new congressional appropriations.

The USOE Project Officer for this effort, Ms. Mary Ann Millsap, has provided SDC with your name as one of the persons to be contacted to recommend noteworthy work education programs to be included in the Directory. She feels that, because of your key position, you would be an ideal contact person to make us aware of interesting and innovative work education programs of different types currently underway in your state at the educational level (secondary, post secondary, etc.) for which you are responsible. We are asking you to suggest up to ten work education programs that represent a broad range of the types operating within your area of responsibility. For this project, the term "work education program" refers to a variety of arrangements which involve students in the real work environment. It includes cooperative programs in which students are paid for work directly related to their vocational training, work-study programs designed to provide students with financial support to continue their studies, clinical training programs, and exploratory programs with a work-for-pay component. We can consider only programs that are primarily schoolsupervised, that operate at the secondary or post secondary (but prebaccalaureate) level, that compensate scudents for their work (with the exception of clinical programs in the medical field), and that have been in operation for at least one year.



Among the types of programs we are looking for are those:

- aimed at training students for specific occupational clusters, those providing career exploration/familiarization opportunities, or those aimed at dropout prevention (through income supplement or other means)
- offering single or multiple occupational choices
- ° differing in size (number of employers and students)
- * serving urban, suburban or rural schools
- characterized as traditional in organization and concept or those that might be considered innovative
- * with unusually high placement rates

We are especially interested in programs which incorporate features that would interest vocational educators planning new programs. To a lesser degree, we are interisted in obtaining a list of programs encompassing a broad spectrum of career fields. In short, we hope the programs you recommend will be representative of the diverse types with which you are acquainted.

For each program you nominate as a suitable subject for the Directory please indicate:

- the school district
- the name and address of the school in which the program operates
- the name of the school principal or program director
- * a brief (one or two sentence) description of why this particular program is of interest

Upon receipt of the program nominations we will send a brief questionnaire to the local administrator of each program seeking additional information to aid in its classification and in the final selection of 50 programs for intensive study. The Directory of Self-Described Work Education Programs will be compiled from returned questionnaires and should be available by February, 1973.

As the quality of the Lirectory will be directly proportional to the amount of thought and effort which persons like yourself devote to the nomination process, we will greatly appreciate whatever assistance you will be able to give us. Should you have any questions regarding the project or your requested role, please call the Assistant Project Director, Ms. Cleane Geddes, or myself, at (213) 193-9411, Ext. 7141. Thank you for your cooperation.

Very trily yours.

A. A. Sarles

Steven Francel, Ed.D Director, Work Education Project



C-1 (page C-2 blank)

APPENDIX C

FORM LETTER SENT TO DIRECTORS OF

NOMINATED PROGRAMS



SDC SYSTEM DEVELOPMENT CORPORATION

2500 Colorado Avenue, Santa Monica, California 90406

Date

Name Address City, State, Zip

Dear

In June of this year, the Office of Program Planning and Evaluation of the U.S. Office of Education initiated a study entitled An Assessment of School-Supervised Work Education Programs, under contract with System Development Corporation (SDC). As part of this study, SDC is compiling a Directory of Self-Described Work Education Programs to be published by USOE in February, 1973 and distributed nationally. Fifty of the programs will also be selected for intensive examination for the purpose of (1) identifying program components that are worthy of replication, (2) recommending incentives and policy changes that will serve to increase union and employer participation, and (3) determining the feasibility of expanding work education programs of various types through new congressional appropriations.

The project staff at SDC is collecting data for the Directory. We have examined the literature, consulted national directories, and requested nominations from State and local school officials and representatives of industry and labor. Your program has been identified as one that should be included in the Directory, since it incorporates features of interest to vocational educators and to representatives of industry and labor concerned with promoting work education.

We would greatly appreciate it if you would provide the information requested in the enclosed questionnaire in order that we may include your program in the Directory. This information will also be used to select programs that we may visit in order to develop detailed case studies to aid USOE in planning for new ways of supporting work education programs.

Would you please complete the questionnaire and return it to us in the postage-paid envelope by November 20. If your program covers more than one school of district, one specific segment of the program operating at one school should be selected for description. If you do not wish your program to receive the publicity that inclusion in the Directory might generate, make a note to that effect on the questionnaire as part of your answer to question 27. Should you have any questions regarding the project or your requested role, please of 1 the Assistant Project Director, Ms. Cleone Geddes, or myself, at 213/393-9411, extension 7143. Thank you for your cooperation.

Very truly yours,

Steven Frankel, Ed.D. Director, Work Education Project



D-1 (page D-2 blank)

APPENDIX D

INTERVIEW SCHEDULES



		51-s-72055		Group Code
App:	rova	l Expires: September 1973		Program
				Institution
				Date
				Interviewer
		SCH PROGRAM INFO	EDULE I	- PART A
for: 250	ms a O Co	Respondent: As explained in ound return them to Cleone Geddes, lorado Avenue, Santa Monica, Cal	System 1	
- -		·		
1.	Nam	e of Respondent		
2.		le of Respondent		
3.		ephone Number		
4.	Wha	t is your responsibility for wor	k educat	ion programs in the school or district?
				· · · · · · · · · · · · · · · · · · ·
5.	Ple	ase give the following informati	on for v	our school and district:
		sсноо́ь	4	· DISTRICT
	a.	Name	g.	Name
	b.	Address	-	Address
	c.	School Telephone	 i.	District Office Telephone
	đ.	Chief Administrator		Chief Administrator
	e.	Program Administrator		
RĬC	f.	Approx. No. of Students in entire school	· .	in entire district

	vocational education majors, assigned to pregular part of the automotive technology p		inancial need,
·			
	ease list the general occupational fields in occupation of students		your school's
	OCCUPATIONAL FIELD	NUMBER OF STUDENTS	
a.	Agriculture (food production, agricultural mechanics, forestry, etc.)		
b.	Distributive education (advertising, sales, retail buying, etc.)	· .	•
c.	Health occupations (nursing, medical technician, rehabilitation, etc.)		
ď.	Occupational home economics (food management, home decorating, etc.)		•
e.	Office occupations (bookkeeping, typing, programming, etc.)		
f.	Technical occupations (engineering related technology, pilot training, etc.)		
g.	Trade and industrial occupations (appliance repair, aircraft maintenance, construction, etc.)	· ·	(use separate she if more room is
	IF NOT SURE OF THE CATEGORIES INTO WHICH CERTAIN OCCUPATIONS SHOULD BE PLACED, PLEASE LIST THE NAMES OF THOSE OCCUPATIONS BELOW AND THE NUMBER OF STUDENTS IN EACH.		needed)

		JOB		NUME	ER OF STUDEN	its	
	·					- .	
		·		-			
							use separate shif more room is needed)
Plea	se list t	the other scho	ools or dist	tricts in w	hich this pr	ogram is	operating.
		SCHOOL			DISTRICT		
			 				
							
							
. —			·				
				· ·	· · · · · · · · · · · · · · · · · · ·		(use separate sheet if more room is needs
What prov	is the o	organizaticn a cmation on the	and staffing titems belo	for your	school's pro	ogram? (Please
		your school,				o whom y	ou report?
•		······································					 f
		at are the jok your schocl's		umber and r	esponsibilit	ies of s	chool personnel
	Joh	o Title		Number	Resi	onsibili	ties

Average Average Minimum Minimum Years Year	C.	Academic	preparation	and experience	of program	staff in your	school.
a. Does your district have a written policy on work education that affects your school's program? Yes No			Average	Average	Minimum	Minimum	
(use separate sheet if more room is needed a. Does your district have a written policy on work education that affects your school's program?		Job	Years	Years	Years		
sheet if more room is needed a. Does your district have a written policy on work education that affects your school's program?	£.54	Title	<u>College</u>	Voc. Exp.	<u>College</u>	Voc. Exp.	
sheet if more room is needed a. Does your district have a written policy on work education that affects your school's program?	· ·		•				
sheet if more room is needed a. Does your district have a written policy on work education that affects your school's program?		-					<u>.</u>
sheet if more room is needed a. Does your district have a written policy on work education that affects your school's program?							
sheet if more room is needed a. Does your district have a written policy on work education that affects your school's program?				 			•
sheet if more room is needed a. Does your district have a written policy on work education that affects your school's program?	•						_
sheet if more room is needed a. Does your district have a written policy on work education that affects your school's program?							•
sheet if more room is needed a. Does your district have a written policy on work education that affects your school's program?				·			
a. Does your district have a written policy on work education that affects your school's program?				•			-
 a. Does your district have a written policy on work education that affects your school's program? [] Yes							
school's program? Yes No No b. If yes, please attach a copy. Have you developed general goals of measurable program objectives for your school's program this year (e.g., number of enrollments, completions, placements in program, quality of job slots, full-time employment placements, etc.)? Yes No						•	
school's program? Yes No No b. If yes, please attach a copy. Have you developed general goals of measurable program objectives for your school's program this year (e.g., number of enrollments, completions, placements in program, quality of job slots, full-time employment placements, etc.)? Yes No							
quality of job slots, full-time employment placements, etc.)? [Yes [No]	b. If ye	Yeses, please	No No attach a cop	s of measurabl	e program ob s. completio	jectives for	your school's s in program.
	quality o	f job slo	ots, full-time	employment pl	acements, et	c.)?	-,,
If yes, please list below or provide a copy of any written statements.		Yes	No No		•		
	If yes, p	olease lis	st below or pr	ovide a copy o	f any writte	n statements.	
							
•		 			·	\	
•							
•						·	
•							
		 	•			· · · · · · · · · · · · · · · · · · ·	
				· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	
				·			



12.

13.

	a.	Is this program a line	item in your school's bu	udget?
		Yes [No	
		If yes, please give the	e amount budgeted for the	e following years:
	b.	1970-1971		
	c.	1971-1972	_	
	đ.	1972-1973	· 	
15.		ase indicate the sources gram. (please check all		inanced this school's
		Federal Covernment	Parent Institution	Foundations
		State Government	[]Industry	Student Tuition or Fees
		Local Taxes	Labor Unions	Other (specify)
17.		ase identify two employe		rticipate in this work education
	mat		question 19. If less the	se provide the following informan two employers refused to
	mat	ion and then proceed to	question 19. If less the	_
	mat par	ion and then proceed to ticipate, go to question	question 19. If less that 18.	han two employers refused to
	mat par a.	ion and then proceed to ticipate, go to question EMPLOYER #1 Address and telephone r	question 19. If less that 18.	_
	mat par a. b.	ion and then proceed to ticipate, go to question EMPLOYER #1 Address and telephone r	question 19. If less the 18. number	han two employers refused to
17.		ase identify two employe		· ·



	a.	EMPLOYER #2
	b.	Address and telephone number
	c.	Name and position of person approached (if known)
	d.	Employer's occupational field
	e.	Titles of positions in which students might have been placed
18.	par	ase name two local employers who, to your knowledge, have never been asked to ticipate in your school's program but might be asked to do so in the future. not answer this question if two employers were named above.)
	a.	EMPLOYER #1
	b.	Address and telephone number
	c.	Name of General Manager (if known) Employer's occupational field
	e.	Titles of positions in which students might be placed
	a.	EMPLOYER #2
	b.	Address and telephone number
	c.	Name of General Manager (if known)
	d.	Employer's occupational field
	e.	Titles of positions in which students might be placed



19.	a.	Have you ever contacted a union about participating in this program?
		Yes No
	b.	If yes, did you ever receive a refusal?
		Yes No
٠	c.	If so, please list the name of the local, the approximate date of the refusal and the name and address of the person contacted.



Ç.-3

Please complete the following chart (as shown in the example) on the employers and unions affiliated with your school's program. If there are more than 4 employers, please list those employing the largest number of students.

		т-			
NUMBER OF STUDENTS AT THIS LOCATION	14		·		
COOPERATING UNION (Name, Address, and Telephone Number of of Shop Stewart)	ILGWU, Local 42 John James 1200 Blue Street Los Angeles, CA (213) 782-5311				
TITLES OF POSITIONS IN WHICH STUDENTS ARE PLACED	Sewing Machine Operator				
EMPLOYER CONTACT (Address & Phone)	J. Watson General Manager 1410 Green Street Los Angeles, CA (213) 692-1111		·	-	
EMPLOYER'S OCCUPATIONAL FIELD	dress manufacturing				
ENPLOYER	Example: ABC Corporation				



OMB No. 51-S-72055	Group Code
Approval Expires: September 1973	Program
	Institution
	Date
	Interviewer
	RVIEW SCHEDULE I INFORMATION - PART B
1. Name of Respondent	
2. Title of Respondent	
3. Telephone Number Area Code	
Area Code	Number Extension
the purpose of the project briefl that institution. The respondent	respondent has not already been briefed, describe by and identify the program you are studying at should understand that whenever the term program and, the term refers to the work education program
4. How long has your program bes	n in operation?years
5. How long have you been with t	the program?years
6. Are you a full-time employee	of the school or district?
a. 🔲 Yes	
b. No	
c. If no, how many hours	per week do you work part-time?
7. a. What part of your time is	allocated to this work education program?
b. If less than 100%, what a	are your other functions?
8. Who took the initiative in or	rganizing this program in your school? (Check only one)
School	Union
☐ Employer	Other (specify)
Please explain.	
	



	How many students are enrolled in the program in this school?
10.	Were you able to accept all students who applied?
	Yes No
11.	Was your planned enrollment
	a. Met?
	□ Not Met/
	Exceeded?
	b. By how much?+
12.	a. How many students were enrolled last year?
	b. The year before?
13.	What enrollment do you anticipate next year?
14.	
	student enrolled in your program?
15.	What is the teacher-student ratio in the second at school?
	What is the teacher-student ratio in the program at school?
15.	What is the teacher-student ratio in the program at school?
	a. Please describe how you advertise to recruit students for your school's
	a. Please describe how you advertise to recruit students for your school's
	a. Please describe how you advertise to recruit students for your school's
	a. Please describe how you advertise to recruit students for your school's program.
	a. Please describe how you advertise to recruit students for your school's program.
	a. Please describe how you advertise to recruit students for your school's program.
	a. Please describe how you advertise to recruit students for your school's program.
	a. Please describe how you advertise to recruit students for your school's program. b. What are the student eligibility requirements for your school's program?



17.	Have so	me students dropped out or been terminated this year?
	٥. [Yes [] No
	b.	II yes, how manyr
	¢.	What were the reasons for their leaving?
18.		sis for evaluating student performance, have you written measurable objectives for your program?
	a. []	Yes [] No
	b.	If yes, please discuss. (To interviewer, obtain copy if sveilable)
19.	Do you !	have a system and forms for recording student progress in your program?
		Yes []No
		If yes, please describe. (To interviewer: obtain printed metarisle)
20.		judgment, has your program influenced some students to remain in echool than drop out?
		[] Yes [] No [] Don't know
	(To int	erviewer: if yes, obtain evidence if possible)



	4,	student absenterium:
	₽.	学童生传递生命概念?
	¢.	Ç∳ क ₫€#?
	4.	Molivelion?
	ë,	Other student problems? (specify)
? , w !!		ocadutes do you has for tentement and additions your thinks.
		have arrangements for articulating your program with the same or sile na of other actions or districts in your area? [] ves
		17 yes, with which organizations?
	ę,	\$,0% 概以後(新产品。例如 数 6 4

. ~	udents receiving job-related instruction in school?
а. _[Yes No If yes, what instructional methods and procedures (e.g., lectures, programmed instructions, supervised shop or laboratory experience, etc.) are used to relate the instruction to the working experience?
(i.e.,	have special provisions in your school's program for the "disadvantaged" academic, socioeconomic?) Yes No
b.	If yes, what are the special provisions?
_	have special provisions in your school's program for handicapped student Yes No If yes, what are the special provisions?
What p	rovision is made for counseling the work education students in your progr
achiev	consider the organization and staffing of your program effective for the ement of your program goal and objectives? Yes No
b.	If no, how could the situation be improved?



29.	Do you	consider the following aspects	of your sch	ool's program	adequate?
	a.	Job slot development?	Yes	No	
	b.	Counseling?	Yes	No	
	c.	Recruitment of students?	Yes	No	
	đ.	Placement of students	Yes_	No	
	e.	If no, how could each area be	e improved?		
			· · · · · · · · · · · · · · · · · · ·		
					
30.		have an organized follow-up pr ts of your school's program?	rogram to eva	luate job succ	ess of former
	a. [Yes No			
	b.	If yes, please describe.			
				<u>, </u>	
				-	
31.		t ways do you promote and commu in the school and community?			
		radio, TV, personal appearance			
	. ——				<u> </u>
			·		
32.		have inservice education opporulum development funds for prof m?			
ſ	a.[Yes No			
	b.	If yes, what are they?			
3					
ERIC Full Text Provided by ERIC					

33.		s, courses) for work station su	ice program education (e.g. conferences, upervisors responsible for on-the-job					
	a. []Yes						
	b.	If yes, what are the provision	ns?					
34.		ur school, district or any gove ng this program?	ernment agency compensate employers for					
	a. [Yes No						
	b.	If yes, how?						
3 5.	Does your school, district or any government agency directly compensate or reimburse any enrollees in your program?							
	a. [Yes No						
	b.	If yes, what are the amount pecompensation?	er hour and the provisions for					
		·						
36.	Please	describe the facilities used by	y your school's program.					
		What ar	e their?					
		Good Features	Inadequacies					
	School	training facilitie;						
	a.		b .					
			•					
	Work fa	ncilities	_					
	C.		d.					
	•							



	a. [Yes No
	b.	If yes, what are your suggestions?
Do	you	have an advisory committee to your program?
	a. [Yes No
	b.	What groups, organizations or professions are represented?
	c.	How often does it meet?/year
	đ.	What is its role?
Ai		ere other work education programs in your school? Yes No Don't know
	b.	If yes, what are they and approximately how many students does each serve?
	c.	If don't know, from whom can I obtain this information? (To interviewer: obtain from other person. This list should provi an indication of emphasis on work education in general.)
		rocedures do you follow for making arrangements with employers for went of students?
_	-	

41.	Do you the pro	conduct any job placement activities for students who have completed gram?
	a. [Yes No
	b.	If yes, please describe and indicate what percentage of students who graduated from this program last year were placed through your placement program? *
42.	Do you	maintain placement records?
	a. [Yes No
	b.	If yes, what was the total percentage of students who graduated from this program last year who were placed in positions related to their training (with or without the assistance of your placement officer)?
		If no, what was the <u>estimated</u> percentage of students who graduated from this program last year who were placed in positions related to their training (with or without the assistance of your placement officer)?
43.		nds of support (financial, equipment, personnel) have employers made ble to the program?
44.	Have en	mployers raised obstacles that have hindered the program?
	a. [Yes No
	b.	If yes, explain.



45.	Do empl	oyers screen the students in any manner?
	a. [Yes No
	b.	If yes, please explain.
		<u> </u>
46.	Have un	ions raised obstacles that have hinder'd the program?
	a. [•
	b.	If yes, please explain.
47.		y students in your school's program been involved in serious ial accidents this year or last year?
	a. [Yes No
	b.	If yes, please indicate how many and what types.
,		
48.		list the main reasons for the degree of success that has been achieved school's program.



						 .
If asked program,	to name the	most intere	sting and	unusual f	eature of you	r school's
program,	what would	it be?	scing and	unusuar r	eature or you	r school



				<i>,</i>		/,			
		/1	/ 28 24	2	/3	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	4 / 9	Sycel's	\$\$\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\
a.	Enthusiasm of students		+						+
b.	Enthusiasm of teachers b.								<u> </u>
c.	Quality of on-the-job supervision C.	_	ŀ			ļ			-
d.	Adequacy of facilities d.					1			
e.	Relating of classroom work to on-the-job training								
f.	Relevance of training to real-world working conditions f.						Į.		
g.	Cooperation of employers								
h.	Cooperation of unions h.		٠, ٠						+
i.					: }	 			-
j.	Vocational skills of students at beginning of program	-	1		! !	† -		-	
k.	Vocational skills of students at end of program				• : ·	1			-+
1.	Quality of training materials 1.		- 4 -		1	†	-	-	
m.	Recruitment of students		🛊			 		+	-
n.	Job success of students in				ļ			1	-
	the program		;		ı	Ì		:	:
ο.	Counseling	-	-	•	!	+		+	k
p.	Placement of students completing program		+				+-		+
q.	Follow-up on former students q.		-+-		 	1	1	1	1
r.	Job success of students completing program				-		-	+	}-
s,	Coordination and direction		:	*****	†	† -		-+	
t.	Use of advisory committee		‡ :		- "-				-+
u.	Articulation with similar programs in other institutions and districts u.	-					+		-
v.	Overall quality of program	-			4	-			
	Administration's support of this					_			1
W.	program				,			1.	ļ



OMB No. 51-S-72055					Group Code				
App	oroval Expires:	September 19	973		Program				
					Institution				
					Date				
					Interviewer	- -			
		P <i>I</i>	SCHEDULE ARTICIPATING						
NOT	TE TO STUDENT:	NONE OF THIS	INFORMATION	WILL BE	SHARED WITH YOUR SCHOOL	OR EMPLOYER			
1.	Name					·			
2.	School Attend	ling							
3.	Grade		•						
4.	Expected Grad	luation Date							
5.	Are you: (Ch	eck only one	in each colu	mn)					
	a. 🗌 Ma	ale b	. Married		c. White				
	Fe	male	Single		Black				
			Divorced		Oriental				
			Separated Widowed, etc.		Spanish Descent (CP Puerto Rican, etc.)				
					Other (specify)				
6. 7.			year						
8.		•			ths before taxes? \$	total			
9.					ool standing by way of g				
୬•									
	□A (90 +	L) []((70-80)	F (bel	.Ow OU)				



☐B (80-90) ☐D (60-70)

10.	What was your main reason for joining this program? (Check only one)
	a. Needed work for pay
	b. Bored with school
	c. Wanted training for job
	d. Wanted to sample occupations
	e. School policy
	f. Other (specify)
11.	Who first told you about the program?
	a. Teacher or principal e. Employer
	b. Counselor f. Newspaper
	c. Parent or relative g. Poster
	d. Friend h. Other (specify)
12.	How many months have you been working in the program?months.
13.	Did you ever discuss your course and occupational choices with a guidance counselor?
	a. Yes No
	b. If yes, how helpful do you think these discussions were?
	☐ Very helpful
	Somewhat helpful
	Not at all helpful
14.	How often are you supposed to go to your work assignment?
	a. Every day d. On alternate weeks - alternate days
	b. On alternate days e. Other (specify)
	c. On alternate weeks - every day
15.	How many hours a week are you supposed to work at your job?hours.
16.	How many hours are you in regular school classes every week? hours.



17.	Are you paid for your work?
	a. Yes No
	b. What is your hourly pay? \$/hour.
	c. What was your beginning hourly pay? \$/hour.
18.	What is the main use you make of this money? (Check one)
	a. Contribute to support of parent's family
	b. Support myself (rent, food, etc.)
	c. Spending money (dates. car, clothes, etc.)
	d. Savings
	e. Other (specify)
19.	Do you have any other part time work?
	Yes No
20.	Do you work during the summer?
	Yes No
21.	Do you spend more than four hours each week participating in a single extra curricular school activity or in a community activity such as the football team drama group, service club, church group, etc?
	a. Yes No
	b. If yes, what activity?
	How many hours per week?
22.	Do you feel that your work interferes with any of the activities below? (Check all that apply)
	a. Schoolwork f. Other (please specify)
	b. Social life g. None of the above
	c. Chores at home
	d. Sports activities
	e. 🗌 Hobbies



23.	Has the work education program helped you to decide on an occupation?
	[] Yes [] No
24.	How closely is your work related to your classwork?
	a. [] Very closely
	b. Somewhat
	c. Not at all
25.	On the whole, does this job fit in we!! with your overall job and career interests?
	a. [Fits very well
	b. []Fits moderately well
	c. Dogan't fit at all
26.	Did you like school
	a. DBetter before you got into program?
	b. Digiter after you got into program?
	c. About the same after as before you got into the program?
27.	How old were you when you first started working regularly?
	a. Dunder 16 c. D18-19
	b. [] 16-17 d. [] 20 and over
28.	What is the name of the company you work for?
29.	What does the company you work for make or do?
30.	Do you have formal instruction (classes) at work?
	☐ Yes ☐ No
31.	What is your job title?
32.	What do you do (job description)?
33.	Where have you learned the most about the skills needed for your job?
	a. At school
	b. On the job
0	c. Elsewhere (specify)

*



34.	Do you expect to find a full time just working?	ob in the occupation in which you are now
	Yes No	
	With the same employer?	
	☐Yes ☐No	
35.	How soon do you expect to get a ful	il time job?months.
36.	What do you expect to be doing one	year from now?
	a. Working full time	d. Part-time work and part-time study
	b. In school	e. Other (specify)
	c. <pre>In armed services</pre>	f. Don't know
37.	Did you work for any other employer	rs in this program?
	Yes No	
	If yes, how many?	-
38.	Would you recommend that a friend e	enter this program?
	Yes No	
39.	What changes would you like to see	made in the program?
		
	Please give your reasons	
		



40. Please check the boxes which best describe your job.

	<u>¥</u>	es	N	<u>o</u>	Don't	Know
Are there adults who do the same work as you do?	()	()	()
Do you sometimes take over a job for an adult who isn't there?	()	()	()
Do you usually work alone?	()	()	()
Do you decide how things are done on your job?	()	()	()
Are you doing a tougher job now than when you were first hired?	()	()	()
Was your job difficult to learn?	()	()	()
Do you have to assume new responsibilities before you are ready?	()	()	()
Does your boss often ask your opinion?	()	()	()
Can you do your job without thinking?	()	()	()
Are the regular employees you work with just like you?	()	()	()
Do you learn something new most days on your job?	()	()	()
Does your job get you interested enough in things to try to learn about them after work?	()	()	()
Do you mostly work with adults?	()	()	()
Do a lot of students work with the same adult?	٠()	()	().
Does your boss know his job?	()	()	()
Do people get very angry at you when you make a mistake?	()	()	. ()
Does your boss tell you when you do a good job?	()	()	()
Are the adults bossy where you work?	()	()	()
Do you get clear instructions when you need them?	()	()	()
Do you do things off the job with the people you work with?	()	(j	(, .



	Y	<u>es</u>	N	<u>o</u>	Don't	Know	, -
Do you ever talk with the people at work about whether your job helps anybody?	()	()	())	
Do you ever talk to anyone on the job about your beliefs?	()	()	(>	
Would you do this job as a volunteer?	()	()	()	
Are you working with people you don't like?	()	()	()	
Do you get paid less than adults who do the same job?	()	()	()	
Are you free to talk and joke around with the people at work?	()	()	()	
Do they have to find a replacement for you when you are absent?	()	()	()	
Do you have any say in what hours you work?	()	()	()	
Could you handle a harder job?	()	()	()	
Would you like to quit your job?	()	()	()	
Do you often wish you didn't have to go to work?	()	()	()	
Do you think your boss would promote you if he could?	()	()	()	
Is it easier for you to talk to adults because you had this job?	()	()	()	
Have you had many different assignments on this job?	()	()	()	



That's the end of our questions for today.

We may need your help again, about a year from now, to complete our survey. At that time we hope you will be willing to complete another questionnaire which will be used to learn what changes have occurred in your life after one year.

We will write you a letter in about a year, with a return postcard in it, to set up a time and place for a new interview. Please give us your name and address, so that we can write to you next year.

ame		Social Sec	curity #
Last	First		•
resent mailing addr	ess		
	Street address		Apt. no
	City	State	Zip
resent telephone nu	mber		
reserve deleptione ma	Area Code	Number	
ack-up #1 Name			
Str	eet address		Apt. no
Cit	у	State	Zip
resent telephone nu			
	Area code	Number	
ack-up #2 Name		·	
Str	eet address		Apt. no
			
Cit	У.	Stale	Zip
resent telephone nu	mber	·	
	Area code	Number	•
Father's full name		<u>*'</u>	
		own	
other's full name			
Mother's address if	different from your	own .	

OMB No. 51-S-72055		Group Code
Approval Expires: September	1973	Program
		Institution
		Date
		Interviewer
2	SCHEDULE III NONPARTICIPATING STUD	DENT
NOTE TO STUDENT: NONE OF THE	IS INFORMATION WILL E	BE SHARED WITH YOUR SCHOOL OR EMPLOYER.
PART I		
All students answer this sect	tion.	
1. Name		
2. School Attending		
3. Grade		•
4. Expected Graduation Date		
5. Are you: (Check only one	e in each column)	
a. \square Male	b. Married	c. White
	☐ Single	Black
	Divorced,	Oriental
,	Separated, Widowed, ets.	Spanish Descent (Chicano, Puerto Rican, etc.)
6. Date of Birth		
month 7. What is your school major	da y year r?	
8. What category best class	ifies your overall so	chool standing by way of grades?
□A (90 +) □C	(76-80) [F (be	elow 60)
☐B (80-90) ☐D	(60-70)	•



9.	Did you ever hear about this work education program before today?
	☐ Yes ☐ No
	If yes, who first told you about the program? (Check one)
	a. Teacher or Principal e. Employer
	b. Counselor f. Newspaper
	c. Parent or relative g. Poster
	d. Friend h. Other (specify)
10.	Did you ever discuss your course and occupational choices with a guidance counselor?
	☐ Yes ☐ No
	If yes, how helpful do you think these discussions were?
	a. Very helpful
	b. Somewhat helpful
	c. Not at all helpful
11.	How many hours are you in school classes every week?hours
12.	Do you spend more than four hours each week participating in a single extra curricular school activity or in a community activity such as the football team, drama group, service club, church group, etc.?
	a. Yes No
	b. If yes, what activity?
	How many hours per week? hours
13.	About how much money did you earn in the past 12 months before taxes?\$tota
14.	Are you working now?
	Yes No
15.	If you are not working, have you been looking for a job?
	a. Yes No
	b. If yes, for how many months have you been looking?months.



What do you expect to	be doing	one year	from now?	• •	•		
a. 🗌 Working fu	ll time		d. Par	ct-time work	and part	-time stu	dy
b. In school		,	e. Otl	ner			
. c. 🔲 In armed s	ervices		f. Dor	n't know			
Now that you know of joining it?	this work	education	program,	are you int	erested :	ln	
Yes	No	☐ Ma	ybe	,			
Why?							
	a. Working fu b. In school c. In armed s Now that you know of joining it? Yes	a. Working full time b. In school c. In armed services Now that you know of this work joining it? Yes No	a. Working full time b. In school c. In armed services Now that you know of this work education joining it? Yes No Ma	b. In school c. In armed services f. Don Now that you know of this work education program, joining it? Yes No Maybe	a. Working full time d. Part-time work b. In school e. Other c. In armed services f. Don't know Now that you know of this work education program, are you intipoining it? Yes No Maybe	a. Working full time d. Part-time work and part b. In school e. Other c. In armed services f. Don't know Now that you know of this work education program, are you interested in joining it? Yes No Maybe	a. Working full time d. Part-time work and part-time stude b. In school e. Other c. In armed services f. Don't know Now that you know of this work education program, are you interested in joining it? Yes No Maybe



We may need your help again, about a year from now, to complete our survey. At that time we hope you will be willing to complete another questionnaire which will be used to learn what changes have occurred in your life after one year.
We will write you a letter in about a year, with a return postcard in it, to set up a time and place for a new interview. Please give us your name and address, so that we can write to you next year.
NameSocial Security #

First	Last		
Present mailing addres	S		
•	Street Address		Apt. No.
	City	State	Zip
Present telephone numb		/sr 3 - 1	_
	(Area Code)	(Number)	
you next year, in case	you have moved? I	e numbers of people that Please list relatives. Bugh church, school, wo	friends, or other
Back-up #1 Name			
Stree	t Address		Apt. No.
City		State	Zip
Present telephone numb			
	(Area Code)	(Number)	
Back-up #2 Name			
Stree	t Address		Apt. No
City		State	Zip
Present telephone numb			
	(Area Code)	(Number)	
Father's full name			
		own	
Mother's full name			
		wn	

PART II

Answ	ver the following questions only if you are now working.
19.	For how many months have you been working at your present job? months?
20.	What were your main reasons for going to work?
	a. Needed work for pay
	b. Bored with school
	c. Wanted training for job
	d. Wanted to sample occupations
	e. School policy
	f. Other (specify)
21.	How did you get the job? (Check one)
	a. Employment agency f. Parent or relative
	b. Teacher or Principal g. Friend
	c. Counselor h. Knocked on doors
	d. Newspaper want ads i. Sign in window
	e. Posted notice j. Other (specify)
22.	How often are you supposed to go to work?
;×	a. Every day d. On alternate weeks - alternate days
	b. On alternate days e. Other (specify)
	c. On alternate weeks - every day
23.	How many hours to do work at your job every week? hours per week.
24.	Are you paid for your work?
	a. Yes No
	b. What is your hourly pay \$ hour.
	c. What was your beginning hourly pay? \$ hour.



25.	Where does most of this money go? (Select only 1 answer)
	a. Contribute to support of parent's family
	b. Support myself (rent, food, etc.)
	c. Spending money (dates, car, clothes, etc.)
	d. Savings
	e. Other (specify)
26.	Do you have any other part time work now?
	Yes No
27.	Do you work during the summer?
	Yes No
28.	Have you worked for any other employers?
	Yes No
	If yes, how many?
29.	How closely is your work now related to your classwork?
	a. Very closely
	b. Somewhat
	c. Not at all
30.	Did you like school
	a. Better before you got your job?
	b. Better after you got your job?
	c. About the same after as before you got your job?
31.	How old were you when you first started working regularly?
	a. Under 16 c. []18-19
	b. 16-17 d. 20 and over



32.	What is the name of the company you work for?
33.	Do you have formal instruction (classes) at work?
	☐ Yes ☐ No
34.	What is your job title?
35.	What do you do (job description)?
36.	Has your job helped you to decide on an occupation?
	Yes No
37.	Do you expect to find a full-time job in the occupation in which you are now working?
٠	☐ Yes ☐ No
38.	With the same employer?
	☐ Yes ☐ No
39.	On the whole, does this job fit in well with your overall job and career interest?
	a. [Fits very well
	b. Tits moderately well-
•	c. Doesn't fit at all
40.	Do you feel that your work interferes with any of the activities below? (Check all that apply)
	a. Schoolwork
	b. Social life
	c. [] Chores at home
	d. Sports activities
	e. Hobbies
	f. Other (specify)
41.	Where have you learned the most about the skills needed for your job?
	a. At school
	b. On the job
OIC.	c. [Elsewhere (specify)

•	If you were talking with a friend, would you suggest that he (she) get a job like yours with the same company?
	Yes No
•	What changes would you like to see made in your job?
	Please give your reasons



44. Please check the boxes which best describe your job.

,	Y	es	<u>N</u>	<u> </u>	Don't	Know
Are there adults who do the same work as you do?	(}	()	()
Do you sometimes take over a job for an adult who isn't there?	•)	()	()
Do you usually work alone?	()	()	()
Do you decide how things are done on your job?	()	()	()
Are you doing a tougher job now than when you were first hired?	()	()	()
Was your job difficult to learn?	()	()	()
Do you have to assume new responsibilities before you are ready?	(()	() .
Does your boss often ask your opinion?	()	()	()
Can you do your job without thinking?	()	()	()
Are the regular employees you work with just like you?	()	()	()
Do you learn something new most days on your job?.	()	()	(}
Does your job get you interested enough in things to try to learn about them after work?	()	()	()
Do you mostly work with adults?	(ì	()	()
Do a lot of students work with the same adult?	()	()	()
Does your hoss know his job?	()	()	()
Do people get very angry at you when you make a mistake?	()	()	()
Does your boss tell you when you do a good job?	()	()	()
Are the adults bossy where you work?	()	()	()
Do you get clear instructions when you need them?	()	()	()
Do you do things off the job with the people you work with?	()	()	()

	Y	es	N	<u>o</u>	Don	't 1	(TOW
Do you ever talk with the people at work about whether your job helps anybody?	()	()		())
Do you ever talk to anyone on the job about your beliefs?	()	()		())
Would you do this job as a volunteer?	()	(}		())
Are you working with people you don't like?	()	()		())
Do you get paid less than adults who do the same job?	()	(())
Are you free to talk and joke around with the people at work?	()	()		())
Do they have to find a replacement for you when you are absent?)	()		())
Do you have any say in what hours you work?	()	()	1	())
Could you handle a harder job?	()	. ()	()
Would you like to quit your job?	()	()	(())
Do you often wish you didn't have to go to work?	()	())
Do you think your boss would promote you if he could?	()	()	ı	())
Is it easier for you to talk to adults because you had this job?	()	()		())
Have you had many different assignments on this job?	()	()		()



OMB No. 51-S-72055	Group Code
Approval Expires: September 1973	
	Program
'	Institution
	D-1-
	Date
•	Interviewer
	Interviewer
SCHEDULE IV	
PARTICIPATING EMPLO	YER
1. Name of Company	
2. Address	
3. Name of Respondent	•
3. Name of Respondent	
4. Title of Respondent	•
5. Phone Number	
Area Code - Number	Extension
	•
Instructions to Interviewer: If respondent has n	
the purpose of the project briefly and identify t	
respondent should understand that whenever the te	
wise modified, the term refers to the work educat	ion program under study.
BAUKGROUND OF COMPANY	
Mary Marine Transport and American Marine Ma	
6. What are your main products or services?	
The Albert Andrews Charles and	·
7. Is this (please check one)	
a. An Independent company	
at [Independent company	
b. What is the total number of g	persons employed by the company?
	· · · ·
c. A division of a larger company	
d. How many persons are employed	hy the division?



8.	In the pas	t year, has the number of employees in the <u>division</u> or independent heck one)
	a. [Increased
	ъ. [Decreased
	· c. [Remained the same
DES	CRIPTION OF	PROGRAM
9.	How long h	as your company been participating in this work education program? _months
10.	How long h	ave you been connected with the program?months
11.	How many s	tudents are in the work education program in your company now?
12.		een the average number of students you have served at any one time on board on an average day)?
13.	How many s	tudents were served last year?
14.	Is the num	ber of student placements in the program: (Check one)
	a. [Increasing
	b. [Decreasing
	c. [Remaining the same
15.		ely what percentage of the student trainees in the work education re represent minority ethnic or racial groups?
16.	What perce	nt of the students are male?
17.	What is th program?	e company's organization pattern and staffing for the work education (To interviewer: obtain items below.)
	a.	What is the title of your immediate supervisor?
	b.	Number, type and title of work education supervisors
	c.	Training and experience of work education supervisors
	· d.	Work education supemvisor/student ratio
	е.	Supporting services such as program liaison, counseling, placement and follow-up for student in plant



_		· · · · · · · · · · · · · · · · · · ·							
_	-								
а.		Have you developed measurable program objectives for this program this ge.g., number of slots for training, full time placements?							
		Yes No (If no, go to question 19c)							
		If yes, what are they?							
b.		Have you achieved all of these objectives?							
		Yes No							
		(To interviewer: obtain specific data)							
c.		Is the program operating with the intended number of students?							
		☐ Yes ☐ No							
đ.	. Could you handle more?								
		Yes No							
а.	•	What was the basis for selection of student trainees?							
h		Who it notiofesters from your viewpoint?							
b.	•	Was it satisfactory from your viewpoint?							
		Yes No							
		If no, why not:							



EVALUATION OF WORK EDUCATION PROGRAM

21.	in general	. how would you evaluate the program?
	a. [Very satisfactory
	b. [Satisfactory
	c. [Unsatisfactory
22.	How could	each of the following be improved in the program?
	a.	School administration
	b.	Quality of students included
	c.	Teaching
	. d.	Employer support
	е.	Union support



23.	. Does the company plan to continue this program?			
	Yes No	Don't know		
24.	Would you recommend	this program to other employers?		
	Yes	□ No		
	Why or why not?			
25.	Would you expand th	is program?		
	Yes.	□ No		
	<pre>% not, what adjust program?</pre>	ments would be necessary to interest you in expanding the		
26.	your plant?	is the most unusual feature of the work education parties		
	Why?			
27.	a. Have you had an this program.	y experience with the experience of the same and the same of the same		
	□ Y98	The the second of the second of		
	If yes, please	A 1 04 - p create con-		
	المستقد وووو			
	E. W. a. S. 14044 mil	and the state of t		



-	
Wha	t steps have you taken to resolve the problem(s)?
·	
a.	What effect has the work education program had on your plant or company safety record? (To interviewer: get specific data)
b.	If there have been any serious accidents, please describe briefly
	If there have been any serious accidents, please describe briefly
	If there have been any serious accidents, please describe briefly
	Has the company been involved in any lawsuits in company with the extension with the exte
	Has the company been involved in any lawsuits in company with the company been involved in any lawsuits in company with the company been involved in any lawsuits in company with the company been involved in any lawsuits in company with the comp
	Has the company been involved in any lawsuits in company with the company been involved in any lawsuits in company with the company been involved in any lawsuits in company with the company been involved in any lawsuits in company with the comp
c.	Has the company been involved in any lawsuits in company to the company been involved in any lawsuits in company to the company been involved in any lawsuits in company to the company of the company been involved in any lawsuits in company to the company of the
What	Has the company been involved in any lawsuits in company to the time of the part of the pa



33.	Have any students been involuntarily terminated at your company's request?
	☐ Yes ☐ No
	If yes, what percent last year?%
34.	What were the reasons for students' leaving the program?
•	a. Voluntary b. Involuntary
•	
35.	What is the average
	a. absence rate per trainee? Absent% of the time
	b. tardiness rate per trainee? Late % of the time
36.	I'm going to show you a list of different types of student gains. For each, rate the amount of improvement for the average trainee.
	 a. Occupational knowledge (technical, mathematical, sciences, communications)
	1. No improvement
	2. Little improvement
	3. Considerable improvement
	b. Manipulative skills (output, quality, job know-how, use of tools and equipment, etc.)
	1 No improvement
	2. Little improvement
	3. Considerable improvement
	c. Personal and social qualities (cooperativeness, self-control, reaction to advice and criticism, adaptability)
	1. No improvement
	2. Some improvement
EDIC	3. Considerable improvement
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		d. Work qualities and habit punctuality, industry).	(dependability, safety, attendance,
•		1. No improvement	
		2. Some improvement	t
		3. Considerable impr	provement
RELA	TION	SHIP WITH SCHOOL	
37.		has primary responsibility for ealloyer's functions in each area.	each of the following? Describe the
	Pri	mary responsibility for:	Employer's Function:
	a.	Selection of student trainees	
		1. School	
-		2.	
		3. Union	
			•
	b.	School Curriculum (job related)	
		1. School	
		2. Employer	
		3. Union	
		4. No job related school curri	riculum
	c.	Teaching (in plant)	
		1. School	
		2. Employer	· · · · · · · · · · · · · · · · · · ·
		3. Union	
		4. No teaching in plant	



đ.	Teaching aids and equ	ipment (on	the job)				
	1. School				· · · · · · · · · · · · · · · · · · ·	<u>.</u>	
	2. Employer						
	3. Union					·	
	4. No teaching aids	or equipm	ent used a	t job si	:е		
e.	Teaching aids and equ	ipment (jo	b related :	for use :	in school)		
	1. School	•	: ·			•	1
	2. MEmployar	ï					
	3. □Union		-				í
	· .						
	4. No beaching aids	and equip	men that	are job	celațed ar	ce used :	in sch
f,	4. No beaching aids	•	omen. that	are job	celated ar	re used :	in sch
f,		•	omen. that	are job	celated ar	re used	in sch
£,	Placement of graduate	•	omen. that	are job	celated ar	ce used	iń sch
f,	Placement of graduate 1. School	•	omen that	are job	celated ar	ce used	in scho
f,	Placement of graduate 1. School 2. Employer	s	omen that	are job	celated ar	re used	iń sch
How	Placement of graduate 1. School 2. Employer 3. Union	s				, ,	
How	Placement of graduate 1. School 2. Employer 3. Union 4. No placement sys would you rate your c	s				, ,	
How	Placement of graduate 1. School 2. Employer 3. Union 4. No placement system would you rate your check one)	s				school	



EVALUATION OF TRAINEES

4 0.	How do you evaluate student progress? Please describe procedures. (To interviewer: obtain rating sheets if available)
<i>a</i> 1	The very himself on a normant basis and graduates of the program?
41.	a. Have you hired on a permanent basis any graduates of the program? Tyes No
	b. How many in the past year?
	c. What jobs were they hired for?
	d. Were these jobs for which they were trained in the program?
	Yes No
GENE	CRAL INFORMATION
42.	For what percent of the trainees does your company
	a. Guarantee employment?%
	b. Provide assistance in finding employment?
43.	Did the employment of these students as regular workers require any adjustments in your hiring standards?
	☐ Yes ☐ No
	If yes, what were they?
^4.	Did the employment of these students for work education require any adjustments in your hiring standards?
	Yes No
0	If yes, what were they?
<u>(IC</u>	

Do s	student dres and	hair style:			
	a. Offend of	ther workers?	Yes	No	
	b. Cause sat	fety probleme?	Yes	No	
	ase describe your	procedures for	r 'raining	students for the wo	rk to which
					-
Do y	you consider thes	se procedures to	o oe fully	effective?	
	Yes	□ №		· .	<u></u> ,
If r	not, please expla	ain how they mig	ght be imp	proved.	
			<u>.</u>		
Do y	you provide any	special classro	om instruc	tion for the student	trainees?
	Yes	☐ No			
				whether or not you on the state of the state	
	:				<u> </u>
Plea	ase provide a bro	eakdown of stud	ent tim e b	y activity at your f	acility.
	Acti v ity		% of Ti	<u>me</u>	
a.	Observation				
b.	Classroom train	_	•		
c.	Actual work		•		
đ.	Maintenance				
е.	Other (please	list)			•

100%

5 0.	What is the average number of work/training hours per student per week?
51.	Do your supervisors know the. trainers are in a "work-education" program when they are assigned?
	Yes No
52.	Do people supervising or working with student trainees receive any special instruction?
	Yes No
	If yes, what?
53.	How have the regular employees reacted to the company's participation in the work education program and/or hiring of its graduates?
54.	Has the exposure of the regular workers to your trainees affected the workers adversely in any way that you have noticed? (e.g. more goofing off, sloppier work habits, etc.?
	Yes No
	If yes, specify
	· · · · · · · · · · · · · · · · · · ·
55.	In what ways (if any) have the regular workers benefited?
:	

Has	your company expressed a strong commitment to work education in general
	Yes No
	yes, in what ways? (e.g. budgetary support, written statements, publi ression)
a.	Are the trainees paid by your company?
	Yes No
	If yes, what are the pay rates? (To interviewer: obtain compensation
	schedule for different types of jobs. Also obtain compensation schedule for regular employees in these jobs.)
	schedule for different types of jobs. Also obtain compensation sched
	schedule for different types of jobs. Also obtain compensation sched for regular employees in these jobs.)
b.	schedule for different types of jobs. Also obtain compensation sched for regular employees in these jobs.)
,b.	schedule for different types of jobs. Also obtain compensation sched for regular employees in these jobs.)
	schedule for different types of jobs. Also obtain compensation sched for regular employees in these jobs.)
	schedule for different types of jobs. Also obtain compensation sched for regular employees in these jobs.) If trainees are not paid, what c pensation (if any) is provided?



60.	Are	the	re expenses wh	ich are non-	reimburs	ed?				
			Yes	☐ No						
	Ιf	yes,	please provid	e a cost bre	akdown o	f non-re	imbursed	expanses	•	•
				· <u>·</u>	<u>.</u>				•	
				: 1	- - .					
61.			ompensati n reexpand the pro-		ompensat	ion for 1	non-reimb	ursed ex	p eņs es	allov
			Yes	☐ No	•	•	•			
62.	Do	you (consider the o	n-the-job tr	aining f	acilities	s as gene	rally ad	equate:	/ ,,,,,। ?
		i-	Yes	№ По						
	Why	or	why not?							
								Sy.		
					,					
			·						<u> </u>	
63.	a.	Do	you have an ad	visory commi	tt e e for	this pro	ogram?			7
			Yes	□ №		•				
ā		If	yes, what grou	ps or organi	zations	are repr	esented?			
						· 				·
					r					
	b.	How	often does it	meet?			<i>(</i>)	٠.		· .
	Ċ.	Wha	t is its role?		,	·			•	• .
					r)	•		•		
				•	4.					î
		′								



		
		
		·
		
	· ·	
N PAR	RTICIPATION	
Are	any of your employees members of a union?	
	Yes No	
Are	the jobs held by students normally covered by a union contract?	
	☐ Yes ☐ No	- ,
Are	students members of the union?	
٠	Yes No	
Does	any union cooperate with you in operating the program?	
	Yes No	
If y	ves, what is the name of the union, local	/.
and	the name and telephone number of:	
	a. The shop steward? Name	 ,
	Telephone number	
	b. President of the union local? Name	
	Telephone number	
	Was this union involved in the decision to participate in the work education program?	£ k
į	Yes No	

71.	Please think of the we potential as a regular below. List each study	r employee and list	each in the appropri	ate category
	Outstanding	Above Average	Below Average	Very Poor
				
		 ,		
				-

• • •	ase rate the program on each of the following		/ 8/	/. /	200		steller
٠		/1	$\sqrt{\frac{2}{}}$	$\frac{\sqrt{3}}{2}$	4	/_5	7~
a.	Enthusiasm of students a.						
b.	Enthusiasm of teachers					1	
c.	Quality of on-the-job supervision			1		 -	1
đ.	Adequacy of facilities			1	1		
e.	Relating of classroom work to on-the-job training				 		
f.	Relevance of training to real-world working conditions f.						
g.	Cooperation of employers						
h.	Cooperation of unions h.		1.	1	-		
i.	Intellectual ability of students in their field i.				 		
j.	Vocational skills of students at beginning of program j.						
k.	Vocational skills of students at end of programk.						
1.	Quality of training materials 1.						
m.	Recruitment of stude is m.			1	1	1	
n.	Job success of students in the program				 	 	
٥.	Counseling		-}	1		1	
p.	Placement of st dents completing program						
q.	Follow-up on former students q.						}
r.	Job success of students completing program r.						
·s.	Coordination and direction s.					Ĺ	
t.	Use of advisory committee t.					1	İ
u.	Articulation with similar programs in other institutions and districts u.						
v.	Overall quality of program					1	
w.	Administration's support of this program		 	-		1	1 -

©6/2 No. 14×5×72955	Group Code
Approv Expires: September 1973	Program
	Institution
•	Date
	Interviewer
	· · · · · · · · · · · · · · · · · · ·
SCHEDULE V NONPARTICIPATING EMP	•
1. Name of Company	
2. Address	
3. Name of Respondent	
4. Title of Respondent	•
5. Telephone	
respondent should understand that whenever the te wise modified, the term refers to the work educat BACKGROUND OF COMPANY	
6. What are your main products or services?	₽
7. Is this	
a. An independent company	
b. How many workers are employed	by the company?
c. A division of a larger company	
d. How many workers are employed	by the division?
During the past year, has the number of emplo company been	yees in the division or independent
a. []Increasing	
b. Decreasing	
c. Remaining the same	
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CONTACT WITH PROGRAM

9.	Has your company ever been contacted regarding participation in the
•	work education program?
	a. No (If no, go to question 12)
	b. If yes, number of times?
	c. Management level of company person contacted?
	d. Please give the name and position of the person (or school) that contacted your company
10.	Did you participate for any period of time in this work education prospens of did you decline to participate?
	a. Declined
	Participated
	b. If participated, for how long?
	(To interviewer: If response is "PARTICIPATED", who participated for any and questions in past tense.)
11.	Why did your company decline to participate in the an entermy
	a. [] Inadequate explanation of the 計學的計畫。
	b. Adjustments to normal harding standeres would be required
	c. Costs would increase.
	d. Program would have काम्बर्गिया कार्यकर्त का, सिल्लिक की कामिक आहार अपना
	C. Tuutin jist Sons' eff 4 fulles weise gines faterisis
	1. Thate had unactual activity and make the collect appear of the decimal and the second activities activities activities activities and the second activities activitie
	S. Chiles and anythin and anything and an anything and an analytic and anything anything and anything anything and anything anything and anything anything anything and anything anythi
) IC	本: C cHitesp (相談的・元年版)

		Yes	No	
	Ιf	yes, please describe	(name, school, occupational areas, etc.)	
		21		
			· •	
e	a	Have you ever partic	cipated in any other programs of this type?	
		Yes	No	
	t :	If yes, please descr	ribe them	
		and the second		
	b.	Have other divisions	s or subsidiaries of your company participat	ted?
		∏ Ye s	□No □Don't know	
	a.	ب	aployers who participated in such a program	
•	•	☐ Yes	□No	•
	b.	_	es affect your decision not to participate?	
	٠.	☐Yes	□No	ÿ
			Пио	• •
		In what ways?		
		-		<u>· </u>
				<u> </u>
•	a.		vocational education graduates?	
		Yes	No	
		If no, why not?		
	b.	_	them satisfactory employees?	•
4		Yes	No	·
		Why or why not?		

							
		·					
a. Do you	generally h	ire young p	eople (u	nder 21)?			
	Yes	Пио					
b. If yes,	for what t	ypes of job	os?				
c. Have the	ey been sat	isfactory e	employees	?			-
	Yes	Пио					
If no,	why not?						
Lo you have	a training	program fo	or new em	ployees?	 		
	Yes	Пио					
Do you have	a training	program to	upgrade	existing	employees	1?	
	Yes	□ No					
Have you ha	d any conta	cts with th	ne school	system?			
	Yes	No					
If yes, for	what purpo	ses?					
Please expl program to		r own words	s, what y	ou unders	tand a wor	k education	מכ
		·					



22.	Would y	our	company b	e willing	to participa	te in a wo	ork educa	tion pro	ogram?
			Yes	□ No					
	If so,	unde	er what co	nditions?	(Check and	explain)			
	a	. 0	Changes i	n program					
	b	· 🗆	Changes i	n interna	l policy which	n would a	llow coop	eration	
	c	· 🗆	Changes i	n federal	or state law	s which wo	ould allo	w coope	ration
	đ	. <u>D</u>	Other (pl	ease spec	ify)				
23.	Would ;	on 9	nticipate	problems	in any of th	followi	ng areas?	,	
	. <u>.</u>		Safety			Yes	No	Don't	know
· ·	b	·.	Morale			Yes	No	Don't	know
	С		Quality o	control		Yes	No	Don't	know
	đ	١.	Disciplin	ne .		Yes	No	Don't	know
	е	·•	Morals			Yes	No	Don't	know
	f		Insurance	•		Yes	No	Don't	know
	g	· •	Legal			Yes	No	Don't	know
	h	1.	Union			Yes	No	Don't	know
	i	. •	Others (p	ol eas e spe	cify)	Yes	No	Don't	know



24.		ntives do you think might induce your company to participate if initially reluctant to do so?
	a.	Total compensation for training experience
		☐ Yes ☐ No
	b.	Partial compensation for training experience
		Yes No
,	c.	Heavy publicity
		Yes No
	d.	Tax incentives
		Yes No
	e.	Approaches to top management by city political leaders and leading businessmen
		Yes No
	f.	Promise of union cooperation
		Yes No
	g.	Accrediting of your training operation as an educational institution
		Yes No
	h.	Limiting of enrollment to children of present workers
		Yes No
	i.	Limiting of enrollment to students approved by the employer
		∏Yes ∏No

1



	51-S-72055 1 Expires: Sept	ember 1973		Group Code	
·p-c vu.	- mwhitee. Schr	ender 1973		Program	
				Date	· · · · · · · · · · · · · · · · · · ·
• ,				Interviewer	
			HEDULE VI IPATING UNION		
. Nau	me of union			·	
. Ad	dress of union_				
3. Te	elephone number_				
		Area Code		Number	Extension
. Naı	me of responden	_			
		t			
nstru	tle of responde	nt	ondent has not	already been	briefed, describe re studying. The
nstruche pur	tle of responde ctions to Inter rpose of the pr dent should und	nt	ondent has not ad identify the enever the term	already been a program you a program is us	re studying. The ed, unless other-
nstruche purespond	tle of responde ctions to Inter rpose of the pr dent should und	viewer: If responded by an erstand that whe	ondent has not ad identify the enever the term	already been a program you a program is us	re studying. The ed, unless other-
nstruche purespondise mo	ctions to Interprese of the predent should und codified, the te	viewer: If responded by an erstand that whe	ondent has not ad identify the enever the term work education	already been a program you a program is us on program unde	re studying. The ed, unless other- r study.
nstruche purespondise mo	ctions to Interprete of the product should und codified, the term to the country of union of the country of the	viewer: If responders briefly and erstand that when rm refers to the	condent has not didentify the enever the term work education have jurisdictions.	already been a program you a program is us on program unde	re studying. The ed, unless other- r study.
nstruche purespondise mo	ctions to Interprete of the product should und codified, the term to the country of union of the country of the	viewer: If responders briefly and erstand that when rm refers to the does your local affiliation	ondent has not didentify the never the term work education have jurisdiction?	already been a program you a program is us on program unde	re studying. The ed, unless other-r study.
nstruche purespondise mo	ctions to Interprese of the prodent should und codified, the term to the country of union of the trades at is the national control of the country of the cou	viewer: If responders briefly and erstand that when rm refers to the does your local affiliation	ondent has not didentify the enever the term work education have jurisdiction of the union?	already been program you a program is usen program unde	re studying. The ed, unless other-r study.
instruction purcespond wise moderate mo	ctions to Interpretations to Interpretations of the predent should under the terms of the terms	viewer: If responders briefly and erstand that when refers to the does your local nal affiliation	ondent has not didentify the enever the term work education have jurisdiction of the union?	already been program you an program is used on program under this p	re studying. The ed, unless other-r study.
instruction purcespond wise moderate mo	ctions to Interpretations to Interpretations of the predent should under the terms of the terms	viewer: If responders briefly and erstand that when refers to the does your local nal affiliation are in the union has the active	ondent has not didentify the enever the term work education have jurisdiction of the union?	already been program you an program is used on program under this p	re studying. The ed, unless other-r study.
instruction purcespond wise moderate mo	ctions to Interprese of the predent should und codified, the term to the country of the predent should und codified, the term to the country of the predent should und codified, the term to the country of the past year, at the past year,	viewer: If responders briefly and erstand that when refers to the does your local nal affiliation are in the union has the active sed	ondent has not didentify the enever the term work education have jurisdiction of the union?	already been program you an program is used on program under this p	re studying. The ed, unless other-r study.



RIPTION O	F PROGRAM				
How long	has your loca months?	l been part	cicipating	in this work edu	cation program?
How long	have you been	connected	with the	program?	months.
Why did	the union get	involved wi	th this p	program?	
	·		,,,		·
	 				
How many	students in t	he program	are membe	ers of your local?	
Under wh	at circumstanc	es may stud	lents joir	your union?	
				~ 	
Do such privil e g		oting right	s, pay du	ues, and receive f	ull membership
Vo	ting Rights	Pay	Dues	Full Members	hip Privileges
∏Ye	s No	∐ Yes	□ио	Ye s	No
		=	_	and staffing for t tion on the it ems	he work education below.)
a.	What is the	title of y	our immed	liate supervisor?	
b.	Number, typ	e and title	of work	education supervi	sor
				•	
c.	Training an	d experienc	ce of wor)	k education superv	visors
c. d.					risors



17.		t are the goals of the work education program from the viewpoint of the on?
		···
		
L8.	a.	Have you developed measurable program objectives for this program this year e.g. number of slots for training, full time placements?
		Yes No
		If yes, what are they?
	b.	Have you achieved your objectives?
		Yes No
		(To interviewer: obtain specific data)
EVAL	UATI	ON OF WORK EDUCATION PROGRAM
19.	In	general, how would you evaluate the Program?
		a. Very satisfactory
		b. Satisfactory
		c. Unsatisfactory



20.	How could	each of the following be improved?
	a.	School administration
		· · · · · · · · · · · · · · · · · · ·
	b.	Quality of students
	c.	Teaching
	đ.	Employer support
	e.	Union support
	·	
21.	Does the u	nion plan to continue its support of this program?
		Yes No
22.	Would you	recommend to another union that it participate in a similar program?
		a. No
		b. Why or why not?
23.	Should the	program be expanded?
		a. Yes No



b. If not, what adjustments would be necessary to interest your union in the expansion of the program, either in increased number or with other schools?

24.	a.	What would you say is the most unusual feature of this program?
	b.	Why?
25.	I'm	going to show you a list of different types of student gains. For each
-		e the amount of improvement for the average trainee.
	a.	Occupational knowledge (mechnical, mathematical, sciences, communications)
		a. No improvement
		b. Some improvement
		c. Considerable improvement
	b.	Manipulative skills (output, quality, job know-how, use of tools and equipment, etc.)
		a. No improvement
		b. Some improvement
		c. Considerable improvement
	c.	Personal and social qualities (cooperativeness, self control, reaction to advice and criticism, adaptability).
		a. No improvement
		b. Some improvement
		c. Considerable improvement
	đ.	Work qualities and habits (dependability, safety, attendance, punctuality, industry.)
		a. No improvement
		b. Some improvement
ER	IC so by ERIC	c. Considerable improvement

26.	a.	What problem(s) has the union encountered in the conduct of the program?
	b.	What steps has the union taken to resolve the problem(s)?
27.	Are	there any other aspects of the program that you consider unsatisfactory?
•		a. Yes No
:	•	b. If yes, what are they?
* *	• ,	
28.	a.	Have some students been involuntarily terminated at the union's request?
		☐Yes ☐ No
	b.	If yes, what percent last year?
	c.	What were the reasons for students' leaving?
		Voluntary <u>Involuntary</u>
		· ·
		•
29.	Have	e any graduates of the program joined the union?
		a. Yes No
		b. If yes, what percent?%



30.	Does your	union provide assistance in finding employment?
	a. [Yes No
	b.	If yes, please describe
31.		agment. how do the graduates of the program compare with graduates raining programs in terms of:
	a.	Ability on the job
	b.	Motivation to work
	c.	Union membership and participation
	d.	Rate of turnover
	e.	Promotion
32.	How would this progr	you rate the union's overall relationship with the school in operating ram?
	a. []Excellent
	b. []Fair
ERI Full Text Provided	c. [Poor

33.	How many times has a union representative met with school personnel during the past year?
34.	Do you feel that the union has been participating in the program as actively as it could?
	a. Yes No
	b. If not, what more could it do?
GENE	RAL INFORMATION
35.	Do student dress and hair style
	a. Offend other union members? Yes No
	b. Cause safety problems? Yes No
36.	How have union members reacted to the union's participation in the program?
37.	Does your union have an apprenticeship program?
	Yes No (If no, go to question 40)
38.	Are the graduates of the work education program automatically admitted to the apprenticeship program?
	a. [Yes No
	b. If no, how can they become eligible?



b. If yes, please explain. a. Do other union members know these trainees are in a work education prograwhen they are assigned? Yes		a. 🗌 Yes		No	•				
a. Do other union members know these trainees are in a work education prograwhen they are assigned? Yes		b. If yes	s, plea	se explai	n.				
when they are assigned? Yes									درب
when they are assigned? Yes									
b. Do people supervising or working with student trainees receive any speci- instruction? Yes No If yes, please describe. What suggestions do you have for the improvement of the program from the viewpoint of your union? a. Has the exposure of the regular workers to the trainees affected the wor- adversely in any way that you have noticed (e.g. more complaints, more goofing off, sloppier work habits, etc.)?	a.				these tra	in e es are	in a wor	k educati	ion progr
instruction? Yes		□Y€	es	No					
what suggestions do you have for the improvement of the program from the viewpoint of your union? a. Has the exposure of the regular workers to the trainees affected the workersely in any way that you have noticed (e.g. more complaints, more goofing off, sloppier work habits, etc.)?	b.		ervisi	ing or wor	king with	student	trainees	receive a	any speci
What suggestions do you have for the improvement of the program from the viewpoint of your union? a. Has the exposure of the regular workers to the trainees affected the wor adversely in any way that you have noticed (e.g. more complaints, more goofing off, sloppier work habits, etc.)?		□ Y €	es .	No					
a. Has the exposure of the regular workers to the trainees affected the workersely in any way that you have noticed (e.g. more complaints, more goofing off, sloppier work habits, etc.)?	c.	If yes, pleas	se desc	cribe.					
a. Has the exposure of the regular workers to the trainees affected the workersely in any way that you have noticed (e.g. more complaints, more goofing off, sloppier work habits, etc.)?									
a. Has the exposure of the regular workers to the trainees affected the workersely in any way that you have noticed (e.g. more complaints, more goofing off, sloppier work habits, etc.)?									·.
a. Has the exposure of the regular workers to the trainees affected the workersely in any way that you have noticed (e.g. more complaints, more goofing off, sloppier work habits, etc.)?	•				•				
adversely in any way that you have noticed (e.g. more complaints, more goofing off, sloppier work habits, etc.)?									
adversely in any way that you have noticed (e.g. more complaints, more goofing off, sloppier work habits, etc.)?					the imp	covem e nt o	of the pro	gram from	n the
adversely in any way that you have noticed (e.g. more complaints, more goofing off, sloppier work habits, etc.)? [Yes No					the imp	covement (of the pro	gram from	n the
					the imp	covement (of the pro	gram from	n the
	view	Has the expos	sure of	f the regulary that yo	lar work	ers to the	s trainees	affected	i the wor
In what ways (if any) have the workers benefited from contact with the stude	view	Has the expos adversely in goofing off,	sure of	f the regu ay that yo ier work h	lar work	ers to the	s trainees	affected	i the wor

		-	
• .	Has	your lo	ocal had any experience with other governmental training programs
		a. [Yes No
		b.	If yes, please list programs.
		c.	How does each compare with your experience in the work education program?
	a.	Do you	think this program should be expanded?
			∐Yes □No
	b.	Do you	think it should be cut back?
			Yes No
	c.	If yes	, in what ways?



47.	Is your union reimbursed in any way for its participation in the program?	?
	a. Yes No	
	b. If yes, please give cost breakdown of reimbursed expenses.	
	·	_
48.	Has your union incurred any non-reimbursed expenses for the program?	
	a. Yes No	
	b. If yes, how much and for what purposes? (Get a cost breakdown.)	ı
		_
		_
		_
	· · · · · · · · · · · · · · · · · · ·	
49.	Would compensation or increased compensation for reimbursed expenses allowou to expand the program?)W
	Yes No	
50.	Do you consider on-the-job training facilities as generally adequate?	
	a. Tyes No	
	b. Why or why not?	
		_
		_
		_



51.	a.	Is there an advisory committee for this program?
		☐Yes ☐No
	b.	If yes, what groups or organizations are represented?
	c.	How many times a year does it meet?
	đ.	What is its role?



TEC	ase rate the program on each of the following:			1	7	1	1	7
		/	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	/	4	5	steel of	14.00 A
	<u> </u>		1	/				ر.پ
١.	Enthusiasm of students		 	 		ļ		-
•	Enthusiasm of teachers b.		ļ	ļ		 		
•	Quality of on-the-job supervision C.		-	 	-	<u> </u>		
١.	Adequacy of facilities d.						ļ	
: .	Relating of classroom work to on-the-job training					<u></u>		
•	Relevance of training to rea? - world working conditions f.							
ļ.	Cooperation of employers							
ι.	Cooperation of unions h.		1			T		
١.	Intellectual ability of students in their field i.					-		
j.	Vocational skills of students at beginning of program							
τ.	Vocational skills of students at end of program				•			
L.	Quality of training materials 1.			T			İ	ļ
n	Recruitment of students m.			j		1	- 	
n.	Job success of students in the program			-	1.	·		-
٥.	Counseling		-	 	· -	-	 -	
p.	Placement of students completing program			+-		-		
1.	Follow-up on former students q.	-		-		1	 	
r.	Job success of students completing program		1		-	1		
s.	Coordination and direction				1	1	1	1
t.	Usr of advisory committee t.	 -		-	1	1	<u> </u>	1
u.	Articulation with similar programs in other institutions and districts u.			-	-			-
,	Overall quality of program	 			-	+		
w.	Administration's support of this program	-	-			+		
0	Administration's commitment to	-						-

MB No. 51-S-72055 pproval Expires: September 1973	Group Code
bbroser prbires: Sebfemmer 1913	Program
	Institution
	Date
	Interviewer
	HEDULE VII ICIPATING UNION
l. Name of union	·
2. Address of union	
3. Telephone number Area Code	Number Extension
4. Name of respondent	
5. Title of respondent	
the purpose of the project briefly and	ondent has not already been briefed, described identify the program you are studying. The never the term program is used, unless otherwork education program under study.
BACKGROUND OF UNION	
6. Over which trades does your local	have jurisdiction?
· · · · · · · · · · · · · · · · · · ·	
7. What is the national affiliation	of the union?
8 How many members are in the union	



9.	In the past year, has the active local membership:
	a. []Increased
	b. Decreased
	c. Remained the same
CON	THE CONTROL PROCESS
	YACT WITH PROGRAM
10.	Has your local ever been contacted regarding participation in the work education program?
	a. Tes No (If no, go to question 13.)
	b. Number of times?
	c. Management level of union person contacted?
	d. If yes, please give the name and position of person (or school) that contacted your union.
11.	Did your union participate for any length of time in this program or did you decline to participate?
	a. Declined
	Participated
	b. If participated, for how long?months
	(To interviewer: If response is "PARTICIPATED", use participating form and ask questions in past tense.
12.	Why did the union decline to participate in the program?
	a. []Inadequate explanation of the program.
	b. Previous experience with schools unsatisfactory.
	c. Unsatisfactory relationship with employer.
	d. Conflicts with union policies. (Which ones?)
	
	e. Cost would be prohibitive.
	f. \[\bigcup \text{Would affect morale of other union members.} \]
	g. Tyoung people's attitude unsatisfactory.
	h. Unsatisfactory experience of other unions
ERIC	i. Other (specify)
Full Text Provided by	me .

Is your local currently	participating in any other work education program?
Yes	No
If yes, please describe	(name, school, employer, occupational area, etc.)
Has your union ever par	ticipated in programs of this type in the past?
Yes	No
If wes, please describe	them.
Do you know of other lo program?	cals of your union who have participated in such a
Yes	□ No
Did their experiences a	ffect your decision not to participate?
∏ ¥es	Пио
If yes, in what ways?	Пио
If yes, in what ways?	
If yes, in what ways?	
If yes, in what ways?	
If yes, in what ways? ERAL INFORMATION How many young people (under 21) are members of your local?
If yes, in what ways? ERAL INFORMATION How many young people (
	Has your union ever par Yes If yes, please describe Yes If yes, please describe Do you know of other lo program? Yes Did their experiences a

19.	Do such priviled		have vo	ting ri g	hts, p	ay dues,	and rec	eive full	member	ship
		Voting 1	Rights		Pay Du	es .	Fu	ll Members	ship Pr	iviledges
		Yes	No		Yes [Ои	Ye	S .		No
· 20.	Do you f	eel tha	t young	people t	oday m	ake good	union m	embers?		
			ľes	□ио						
	Why or w	hy not?								
									· <u> </u>	
21.	Do you f than did						fferent	attitude (coward	work
	,		Yes	No						
	If yes,	how is	it diffe	rent?						
										···
22.	Have you	had an	y contac	ts with	the sc	hool sys	tem?			
			Yes	Пио	• •					
	If yes,	for wha	t purpos	es?		•	٠	•		
					·					
23.	What do for the			chool sy	stem s	hould do	to bett	er prepare	young	people
		///	<u> </u>		·					
									<u>-</u>	
ERIC Full Toxt Provided by ERIC			 							,

Ooes you	r union have a	n apprenticeship program?
	Yes	Пио
Is this	program in com	flict with the work education program
	Yes	No
f yes.	please explain	
		· · · · · · · · · · · · · · · · · · ·
		,
Would yo	u participate	(again) in a work education program?
Would yo	u participate	(again) in a work education program?
	Yes	□ио
If so, u	Yes	No litions? (Check and explain)
If so, u	Yes	No litions? (Check and explain)
If so, u	Yes nder what cond Changes in	No litions? (Check and explain) program
If so, u · a.	Yes nder what cond Changes in	No litions? (Check and explain)
If so, u a. b.	Yes nder what cond Changes in Changes in	No litions? (Check and explain) program

28.	Would you	anticipate pro	blems in any of th	e followir	ng areas?	,
	a.	Safety		Yes	No	Don't know
	b.	Morale		Yes	No	Don't know
	c.	Quality contr	ol	Yes	No	Don't know
	a.	Discipline		Yes	No	Dont' know
	e.	Morals		Yes	No	Don't know
	f.	Insurance		Yes	No	Don't know
	g.	L e gal		Y es	No	Don't know
	h.	Others (pleas	e specify)	Yes	No	Don't know
29.			f this program, do , might be interes			
		Yes	No			
30.		ntives do you ally reluctant	think might induce to do so?	your unio	on to par	rticipate if they
	a.	Total compens	ation for training	experience	ce	
		Yes	No		•	
	b.	Partial compe	nsation for traini	ng exp eri e	ence	
		Yes	No			
	c.	Heavy publici	ty			
		Yes	No			
	đ.	Tax incentive	es			
		Yes	No			
	e		union officials k	oy city po	l itica l :	leaders and
	*	Yes	No			•
	f.	Promise of em	mployer cooperation	ı		
		Yes	Ν̈́ο			
	g.	Accrediting of	of your training or	peration a	s an edu	cational institution
		Yes	. No			
	h,	_	enrollment to child	dren of pr	esent un	ion employees
		Yes	No			
	i.	•	enrollment to stude	ents appro	ved by t	he union.
		Yes	☐ No			

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APPENDIX E

SAMPLE OF NOTIFICATION LETTER



SDC SYSTEM DEVELOPMENT CORPORATION

2500 Colorado Avenue, Santa Monica, California 90406

December 20, 1972

Name Address City State Zip

Regarding:

Dear

For the past 6 months, System Development Corporation has been conducting a study entitled "An Assessment of School-Supervised Work Education Programs". This study is being conducted by System Development Corporation for the U.S. Office of Education (Office of Planning, Budgeting and Evaluation) and has 3 objectives:

- (1) To identify successful program components and configurations that might be easily replicated in other parts of the United States.
- (2) To recommend incentives and policy changes that might be adopted by the Federal government in order to increase union and employer cooperation in work education programs.
- (3) To determine the feasibility of expanding work education programs of different types through new Congressional appropriations.

In the first phase of this study, we requested that senior officials from State Departments of Education and nationally recognized authorities in work education nominate programs for possible inclusion in the study that were either particularly innovative in their approach to work education, or else were among the most successful of the work education programs utilizing the traditional approaches. As you know, your program was among those nominated and, as a result, you completed our initial questionnaire, Characteristics of Work Education Programs.

Six hundred programs completed this questionnaire; and all will be included in a publication to be distributed by the U.S. Office of Education next year entitled Directory of Self-Described Work Education Programs. The U.S. Office of Education's present plans call for the Directory to be distributed to senior school administrators in each state and to program directors listed in the Directory.



The next phase of our project involves the intensive study of 50 of the 600 programs. Under a complex but objective sampling schema, 50 programs with widely varying characteristics have been selected to be visited by an interview team who, in a 2 to 3 days visit, will attempt to gain an indepth picture of each program's features, accomplishments and problems.

It is our pleasure to inform you that your site was among the 50 selected for intensive study. The findings of these visits will be published in a report scheduled to be completed in September 1973, and made available to members of the Congress of the United States, State Departments of Education, and vocational and career education professionals. The Chief State School Officer in your state will be notified by the U.S. Office of Education that your program has been invited to participate in this effort. We are also sending a copy of this letter to your District Superintendent or Community College President.

In order for you to gain a more detailed picture of the scope and depth of our study, and the method by which your program was selected, we are asking you to designate one of your staff members, or yourself, as Site Visit Coordinator. We will telephone you during the first week in January to learn the identity of this coordinator and to answer any questions which you might have regarding your role in the study. Shortly thereafter, we will send each coordinator a packet at materials describing the project and an invitation to attend one of 3 national meetings of Site Visit Coordinator's scheduled to be held at on January 1973. The meeting will last from noon to 5 PM, will include lunch, and all transportation expenses will be assumed by System Development Corporation.

I will be looking forward to speaking with you after the first of the year. In the meantime, if you have any questions, call either me or Ms. Cleone Geddes at (213) 393-9411.

Yours truly,

Steven Frankel, Ed.D. Director, Work Education Project

SF:jh



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APPENDIX F

WORK EDUCATION PROGRAMS

BACKGROUND OF WORK EDUCATION STUDY, AN ASSESSMENT OF SCHOOL-SUPERVISED WORK EDUCATION PROGRAMS

STUDENT, EMPLOYER & UNION SAMPLING PROCEDURES

SITE COORDINATOR'S CHECK LIST

INTERVIEW TEAM ASSISTANCE FORM

TENTATIVE STUDENT INTERVIEW LIST

WORK EDUCATION PROJECT TRAVEL PLAN



WORK EDUCATION PROGRAMS

Rural Soudent Vocational Program

Nome, Laska Total Program

Fremont-Newark Work Experience Program

Fremont, California

Total Program

Work Experience Program Salinas, California

Total Program

Exemplary Work Experience Program

Clay Center, Kansas

Total Program

Cooperative Education Program (Diversified)

Douglas, Arizona

Woods Manufacturing Co. Segment

Drafting & Design - Innovative Cooperation

Program

Phoenix, Arizona

Drafting and Design Segment-Maricopa

Tech. Col.

North Orange County Regional Occupational

Program

Anaheim, California

Community Classroom Segment

Corrections Aides Program

Marysville, California

Total Program

Cooperative Vocational Education Program

Hilo, Hawaii

Office Education Segment

Cooperative Vocational Education Program

Honolulu, Hawaii

Kapalani Community College Program

SEWER Project (NYC)

Eugene, Oregon

SEWER and Fisheries Segments

Angell Civilian Conservation Center

Yachats, Oregon

Union Carpentry Segment

Distributive Education Program

The, Wyoming

FRICProgram

SPACE Program

New Haven, Connecticut

Cross High School Program

Innovative Valley Education Cross

Registration Program Simsbury, Connecticut

Distributive Education Segment

Child Care Program

Dover, Delaware

Total Program

Cooperative Occupational Program

New Castle, Delaware

Health Services Segment

Cooperative Education Program

Rangeley, Maine

Total Program

Cooperative Education Program

Concord, Massachusetts

Food Service Segment

Work Experience Career Exploration Program

Cape May, New Jersey

Total Program

Camp Kilmer Joh Corps

Edison, New Jersey

Painting and Resiliant Floor Covering

Segments

Distributive Education for Incarcerated

Youth

Jamesburg, New Jersey

Total Program

Work Experience Career Exploration Program

Patterson, New Jersey

Food & Health Services Segment-Bunker Hill

Radiologic Technology Program

Bronx, New York

Radiology Program

Student Placement Services Program

Westbury, New York

Aircraft Maintenance Segment

Cooperative Work Experience Program

Lebanon, Pennsylvania

Materials Handling Segment

Work Experience Program Moscow, Idaho HOST Segment

Cooperative Vocational Work Program Chicago, Illinois Office Occupation - Secretarial Segment

Clerical Office Occupations Program Fort Dodge, Iowa Eagle Grove Center Program

NYC In-School Program Harlan, Iowa Total Program

Job Upgrading Program
Detroit, Michigan
Ford High School Segment

Butte Vo-Tech Work Study Program
Butte, Montana
School District and City of Butte
Segments

Cary Coop Program
 Garner, North Carolina
 Industrial Cooperative Training
 Segment

Occupational Work Experience Program Toledo, Ohio Waite High School Program

Diversified Occupations Work Release Program Kent, Washington Automotive & Business Office Segments Kent-Meridian High School

Clover Park Education Center Lakewood Center, Washington Practical Nursing Program

Seattle Schools Neighborhood Youth Corps Seattle, Washington University of Washington Fisheries Segment and Others

Work Study Program
Madison, Wisconsin
Madison Urban Corps and On-Campus
Segments

Agribusiness Program Sauk City, Wisconsin Total Program

Diversified Cooperative Training Program Melbourne, Florida
Total Program

Coordinated Vocational Academic Edu. Program Jasper, Georgia
Work Study Program

Allied Health Program
Belleville, Illinois
Medical Records Technician Segment

Distributive Education Columbus, Kansas Total Program

Cooperative Education Program Somerset, Kontucky Office Education Segment

Practical Nurse Program
Raymond, Mississippi
University of Mississippi Medical Center
Program

Work Study Program Hagerman, New Mexico Total Program

Data Processing Program Norman, Oklahoma Total Program

Neighborhood Youth Corps Program Clinton, Tennessee Clinton High School Segment

Distributive Education Program Dallas, Texas
Total Program

Business Internship Program Provo, Utah Marketing Management Segment

BACKGROUND OF

WORK EDUCATION STUDY,

AN ASSESSMENT OF SCHOOL-SUPERVISED WORK EDUCATION PROGRAMS

The concept of high school and college age students combining formal education with a school-supervised, paying job in exceedingly attractive to many different types of persons. It is agreed that by fostering such programs students can be assisted in making the transition from academia to the world of work; they can earn money needed to continue their schooling or establish a family without having to interrupt their education; and they can apply techniques and procedure; learned in vocational training classes to real life situations. At the same time such programs are of equal benefit to schools and industry because they provide the former with a feedback loop by which the effectiveness of vocational and academic instruction can be measured; and they provide the latter with a means of screening potential employees and making input into the educational processes of the schools of the community.

Because of these attributes, so-called work education programs have been in existence in American schools for well over a hundred years. In many cases, the programs consisted of nothing more than informal arrangements by which needy students were placed in part time jobs to allow them to continue their education and equally informal systems in which promising vocational students were placed in jobs related to their training before they were ready to graduate. Federal involvement in work education programs and more particularly in work education programs in vocational education is a more recent development. Work study programs for vocational education students were first reimbursed under the Vocational Education Act of 1963. The Vocational Education Amendments of 1968 provided separate funding for cooperative vocational education (Part G) and for work-study programs for vocational education students (Part H), with the added stipulation that priority be given to programs in areas with high rates of youth unemployment or economic depression.



About \$70 million in Federal appropriations have gone to Parts G and H in the first three years of funding, FY 1970 through FY 1972; no estimate is available on the extent to which these programs have been funded under other parts of the legislation or through other pieces of legislation.

Some 23,000 students were enrolled in cooperative vocational education programs under Part G in FY 1970 and an additional 20,000 students participated in Part H supported work study programs; almost 290,000 students in FY 1970 were enrolled in cooperative vocational education programs under Part B -- the Basic State Grant Program for the same fiscal year.

While work education programs are held in high regard by many in business, industry and education, little quantitative data are available pertaining to their specific make-up and features. There is little information on the variety of organization patterns and purposes; and even the locations of existing programs are not known with any degree of comprehensiveness since States do not report program locations to the Federal Government.

The study, An Assessment of School-Supervised Work Education Programs, which SDC has undertaken for the U. S. Office of Education is an exploratory project designed to (1) develop a set of case studies which will document the growth, training strategies, and significant characteristics of 50 different work education programs; (2) look for commonalities in features and characteristics among the more successful of the 50 programs that can lead to recommendations pertaining to the structure of future work education programs; (3) collect data on student participation in the 50 programs, and on nonparticipating students at the same schools, which can be used to link desirable program outputs to student characteristics and goals; and (4) lay the groundwork for a followup study, tentatively scheduled by the Office of Planning, Budgeting and Evaluation for FY 1974 under a separate contract, which would compare the student data gathered during this study with followup information obtained a year later by reinterviewing the same students to determine what changes have occurred in their earnings, their academic and vocational careers, and their personal expectations.



To initiate this study, SDC has had to first compile a large set of successful and/or innovative work education programs. It did this by conducting a search of the literature and requesting program nominations in each state from the Chief State School Official, the Director of Secondary Vocational Education, the Director of Community Colleges, the Education Director of the State Chamber of Commerce, the President and Executive Secretary of the Advisory Committee for Vocational Education, Superintendents of Education in the Great Cities, and consultants of national repute. More than 1,000 programs were thus nominated as being representative of the better work education programs currently underway.

The director of each nominated program was sent a letter describing the study and was asked to complete a questionnaire to provide information which could be used as a basis for selecting the 50 programs to be studied intensively. Over 600 questionnaires were returned and a synthesized version of the entire data base will be printed in a publication scheduled for distribution later this year entitled "Directory of Self-Described Work Education Programs." This directory will serve to put people interested in various types of programs in touch with one another.

Data from the questionnaries were inserted into a data base and processed by a computer. Considering primarily the educational level of the program (secondary or postsecondary), purpose of the program (training in specific occupational area, career exploration, dropout prevention, etc.), and the industrial setting (farming region, bedroom community, light industry, major industrial/business center), in which the program is located, a complex but objective sampling schema was used to select 50 programs with widely varying characteristics to be visited by project interview teams.

A two person interview team will visit each of the 50 selected program sites for two or three days. They will conduct interviews pertaining to:

- The work education program around which each case study will be constructed.
- Students participating in the work education program



- Comparison groups of students not participating in the program but who otherwise have similar characteristics and are enrolled at the same school.
- Employers participating in the work education program
- Employers not participating in the program who are in the same community
- Unions (if any) participating in the work education program
- Unions (if any) not participating in the work education program who are in the same community.

A representative from each of the selected sites (except those located in Hawaii and Alaska) has been invited to attend one of three orientation meetings scheduled to be held in San Francisco, California; St. Louis, Missouri; and Newark, New Jersey in mid-January. At these meetings the entire project plan will be explained in detail.

The site visits will begin the end of January and extend through March 1973. The information collected during these visits will be processed and several months will be devoted to a quantative analysis of the gathered data. The case studies of the programs will be written so as to bring out both successful and unsuccessful features, and to highlight strategies which appear to be linked to desirable outcomes and are readily exportable. It is expected that many of the case studies will describe programs that are readily exportable and can be replicated on nearly an identical basis in other parts of the United States.

At the conclusion of the study the project team will produce a Final Report which will contain the data analysis; a Replication Handbook which will describe the methodology of the study and will include an extensive topical bibliography; and an Executive Summary which will contain highlights of the Final Report and the Replication Handbook.

Users of these products will include federal officials in the Department of Health, Education and Welfare and the Department of Labor concerned with funding and promoting work education programs; vocational educators at State and local levels seeking to improve existing programs and initiate

F-9 (page F-10 blank)

new work education programs incorporating features that appear to be linked to successful outputs of various types; community representatives and politicians concerned with shaping legislation pertaining to the support of work education programs and career education; and representatives from industry and labor who are interested in developing or expanding work education programs in cooperation with their local school districts.



STUDENT, EMPLOYER AND UNION SAMPLING PROCEDURES

Within each site, participating students will be selected by sampling intact classes of students participating in the program. Using intact classes, we will attempt to average 25 participating students per site. The decision rules to be followed will be:

- If the first class selected has between 15 and 35 students in it, the entire class membership will be included in the sample.
- If the first class has more than 35 students in it, 25 students will be randomly selected from the class for inclusion in the sample.
- If the first class has less than 15 students enrolled in the program, a second class will be chosen. If the total of the two classes is 35 or less, both classes will be included in total. If the total of the two classes is more than 35 students, the entire first class will be included; and sufficient students from the second class will be selected randomly to bring the total of students to 25.
- In cases where work education students aren't members of composite classes, 25 students will randomly be selected from the total list of participating students.

An average of 25 nonparticipating students per site will be selected in essentially the same manner, using the same decision rules listed above, with the eligible classes being chosen according to the following guidelines:

- If the participating classes are in the Vocational Education Department, or its equivalent at the school, the list of non-participating classes will include vocational education classes at the same school which operate at approximately the same skill level and in the same occupational area. If all of these requirements cannot be met, classes meeting two of the above prerequisites (vocational, same skill level, same occupational area) will be selected. If none of these classes exist either, then classes meeting at least one prerequisite will be included.
- If the work education students aren't members of composite classes, the nonparticipating students will be randomly selected from a list of atudents with part-time or full-time jobs, the same maturational and background characteristics, and taking the same or similar types of courses. This list will be compiled by the site coordinators and will contain the same number of names as did the list from which the participating students were selected.



Once participating students are selected, the participating employers to be interviewed will be chosen. The four employers which hire the most students on the participating students' list will be selected to be interviewed. If unions actively participate in the work education programs at these employers' sites, they will become the participating union sample.

The following sites are known to have participating unions:

Anaheim, California
Bronx, New York
Butte, Montana
Cary, North Carolina
Cheyenne, Wyoming
Clay Center, Kansas
Edison, New Jersey
Hilo, Hawaii
Jamesburg, New Jersey
Kent, Washington
Patterson, New Jersey
Toledo, Ohio
Yachats, Oregon

If it happens that there are participating unions at other sites, coordinators will be expected to schedule interviews with these unions as well.

Nonparticipating employers and unions will be selected in the following manner:

- Schools will be asked to name two employers who were contacted about participating in the work education program and refused.
 If two such employers are available, they will become the non-participating employer.
- If no employers have refused to participate, school administrators will be asked to suggest two employers in the same industry as the participating employers who might be a candidate for future participation. If none of these are suggested, potential employers of interest to the school for reasons of geographic proximity and size will be requested.
- Schools will be asked to identify any unions which have refused to participate in their program. Such unions will be listed as non-participating unions (only 13 are needed in the entire sample).



F-13 (page F-14 blank)

Table I. Table of Random Numbers

				Соция М	UMBER			
Row	00000 01234	00000 50789	11111 01234	11111 56789	22222 01231	22222 50789	33333 01234	33333 50789
				1st Thou	sand		/ 	
00	23157	54859	01837	25993	76249	70886 .	95230	36744
őĭ	05515	55013	10537	43508	90611	83744	10962	21343
02	14871	60350	32404	36223	50051	00322	11543	80531
03	38976	74951	94051	75853	78805	90194	32428	71695
04	97312	61718	99755	30870	94251	2.5811	54882	10513
Ŏ5	11742	60381	4.1339	30872	32797	3311S	22617	00850
-06	43361	28859	11016	45023	~ 930Co)}	00499	436-10	74036 -
.07	93806	20478	3S2úS	04491	55751	18032	58 175	52571
08	49540	13151	0S129	84187	69538	20061	77738	09527
, ŏŝ !	36768	72633	3794S.	21569	41959	68670	45274	83880
10	07092	52302	24627	12067	0655\$	45314	67338	45320
ii	13310	01081	44863	80307	52555	16118	89742	94647
12	61570	06360	06173	63775	631.48	95123	35017	46993
13	31352	83799	10779	18941	3:579	70448	62584	86019
14	57018	86526	27795	93692	90529	50516	35065	32254
15	00243	44200	68721	07137	30729	75756	09298	27050
16	97957	35018	40894	88329	52 23 0	82521	22532	61587
17	93732	59570	43781	98885	50071	66826	95996	44569
18	72621	11225	00022	68264	35066	59 13 1	71687	58107
19	61020	74418	45371	20794	95917	37S06 .	99536	19378
20	97839	85474	33055	91718	45473	51114	22034	23000
21	89160	97192	27.232	90637	35055	45489	SS-138	16061
22	25966	-88220	62871	70205	02\$23	52862	\$4919	54883
23	81443	31719	<i>ს</i> 5049	54806	74699	07567	65017	16543
21	11322	54931	42362	34386	08624	97687	46245	23245

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Table I. Table of Random Numbers*-Continued

Dani		·	<u>-</u>	Column Nu	MBER			
Row	0000') 01234	00000 56789	11111 01234	11111 56789	22222 01234	22222 56789	33333 01234	33333 ² 56789
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00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15	64755 10302 71017 60012 37330 47599 35040 73308 32023 97591 74012 50751 49500 43584 16553 48502 96765 38923	83885 52289 98195 55005 94656 87001 42737 30908 46474 99549 31955 20157 49908 89617 79664 69055 54692 61550	84122 77436 51308 88410 49161 31591 64167 83054 84061 36630 59790 13351 54831 24878 60325 65322 36316 80357	2nd Thou 25020 34430 50374 34879 42802 12273 89578 80078 01324 35106 96082 05014 21908 56670 71301 58748 86230 81781	17696 38112 66591 79655- 4827-4 60626 39323 86669 20628 62069 66224 90966 08528 00221 357-42 31446 48296 23444	(-15055' 49007' 02887' 90169 54755 12822 49324 30295 37319 92975 21015 33674 26372' 50193 S3638 80237 38352	95045 07348 53765 78800 44553 34601 88434 56460 32356 95320 96749 69096 97023 90591 73058 31252 23816	95947 23328 691 19 03666 65090 61212 38706 45256 43969 57734 07589 33488 65026 62377 87229 96367 64994
18 19	77958 17928	81694 28065	25225 25586	05587 08771	51073 02641	12463 01070 85664	33992 00218 65796	28128 61961 48170
20 21 22 23	91036 47460 47856 57616 08300	85978 60479 56688 34653 92704	02318 56230 51992 92298 66752	01499 48417 82439 62018 66610	41051 14372 40644 10375 57188	10531 85467 17170 76515 79107	6776 87431 27,558 13463 62986 64222	21596 00368 18288 90756 22013

Table I is reproduced from M. C. Kewlall and B. B. Smith. Randomness and random sampling numbers. J. R. selist. Soc., 101 (1938).

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Site Coordinator's Check List

WITHIN 5 TO SDC:	DAYS AFTER RETURNING FROM COORDINATOR'S MEETING, RETURN THE FOLLOWING ITEMS
	Expense reimbursement form
	Schedule 1, Part A
	Tentative Student Interview List
	Interview Team Assistance Form
AT LEAST	10 WORKING DAYS BEFORE INTERVIEW TEAM IS DUE TO ARRIVE:
	Set up a meeting for the two interviewers, the program administrator, and yourself (if you are not the program administrator), to be held if possible about 9 AM on the first day of the visit. This interview will require one hour.
	Make any final changes on the Tentative Student Interview List and schedule a series of group student interviews. If possible, only one group interview for participating students and one for nonparticipating students should be arranged. In this case, all students on the revised interview list would go to either one meeting or the other. If it is not possible to schedule all participating students or all nonparticipating students into one interview session, set up additional meetings as required. In no case should participating and nonparticipating students be scheduled into the same group meeting. Student interviews should be scheduled for the afternoon or evening of the first day and the morning or early afternoon of the second day. Each meeting will require from 30 to 40 minutes. Since one interviewer will be doing all the student interviews, please don't set up student meetings that conflict with one another.
	After developing the student interview schedule, notify all students to be interviewed of the purpose of the study and the time that they will be interviewed. This might be done in notes to the students or, if time and schedules permit, in a meeting with the students. In either case, students must be convinced of the importance of their role in the project before the arrival of the interview team. While it might be advisable to discuss the general nature of the interview questions, please do not show them, or duplicate, the exact questions to be asked during the interviews. Assure the students that all responses will be kept confidential, that no one at the school or in the federal government will be able to see their responses, and that their answers will be coded and put into a computer data bank in which they will be identified by a code number known only to the project staff members.



Set up a series of meetings with employers and union representatives. These meetings can be scheduled from lunchtime of the first day through to early afternoon of the second day. If necessary, dinner or evening meetings can be arranged. Each interview will be conducted by a single interviewer and will require about one hour. These interviews may not conflict with one another. If interview schedules appear to be getting tight, you might suggest that one or more employers or union representatives meet the interviewer at the school or at a central location such as a restaurant in order to save on the interviewer's driving time.

Mail to SDC a tentative interview schedule showing where each of the two interviewers will be, and whom they will speak to, at what time, during their visit to your site. Again, both interviewers will attend the program administrator interview, but only one will go to each of the student, employer, and union interviews.

A DAY OR TWO BEFORE THE INTERVIEW TEAM IS SCHEDULED TO ARRIVE:

Call up all interviewees, or drop them a note, to confirm their interview appointments. After making any necessary revisions in appointment times, develop a revised interview schedule to be given to the interview team upon arrival.



F-17 (page F-18 blank)

INTERVIEW TEAM ASSISTANCE FORM

Site Name		
Coordinator's name	Work phone #	Home phone #
·		
Please give us the name of a hotel or a or airport that the team would find to		
Name		<u>-</u>
Address	<u>_</u>	
Telephone Number		
		,
Can you suggest 1 or 2 restaurants in	the area that we wou	ald enjoy eating at?
In the space below, please draw (or at	tach) a map showing	the program site,

the airport, the motel, and the best connecting roads.



F-19 (page F-20 blank)

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Coordinator

TENTATIVE STUDENT INTERVIEW LIST

١	
PARTICIPATING	STUDENTS

NONPARTICIPATING STUDENTS

Name	School School	Class	Name	School	Class
1.			1		·
2.			2		
_			3		
4			4		
5		·	5		
6			6	·	
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t Provided by ERIC					

Revised 1/19/73

W WORK EDUCATION PROJECT TRAVEL PLAN

	<u> </u>	T	· · · · · · · · · · · · · · · · · · ·	
9 3/25			Butte MT M T Moscow ID	·
8 3/18	Salinas CA * M T Yuba Gity CA W Th			Westbury NY M T
7 3/11	Fremont CA T W Anaheim CA Th F	Selleville M T IL Columbus KS W Th		Edison NJ M T Bronx NY W Th
9/4		Cilnton TN * M T Somerset KY Th F	Chicago IL * M T	Jamesburg NJ M T Paterson NJ
5 2/25	Hilo III M T *Honolulu HI	Jasper GA T W Melbourne FL Th F	Ft. Dodge IA T W Harlan IA Th F	Lebanon PA M T Rangely ME Th F
4 2/18	Anchorage AK M T Nome AK		Sauk City Wi * T W Madison WI Th P	Cape May NJ T W
3 2/11	Cheyenne WY M f Clay Center Th F KS	Norman OK * M T Raymond MS Th F	Detroit NI T W Toledo OH Th F	Simsbury GT T W Concord MA Th F
2 2/4	Cros Bay OR M I Vachats OR	Hagerman NM M T Dallas TX W Th	Lakewood k Center WA M T Kent WA	New Castle M T DE Cary NC Th F
1 1/28	Phoenix AZ M T Douglas AZ W Th	Provo UT W Th	Seattle WA Th F	Dover DE M T New Haven CT W Th
J	Alan Cohen Ge Jack G Pratt	Cleone Geddes Emily Allison	Doug Robertson (Portland) Allen Crews	Bob Ushop (Taos) Ray Tillary
	กลลรอ	Yellow	Веd	Мулсе

- Weekend Away

** - Steve for Alan

*** - Steve and Mary Ann

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APPENDIX G

DATA ANALYSIS PLAN



AN ASSESSMENT OF SCHOOL SUPERVISED WORK EDUCATION PROGRAMS: DATA ANALYSIS PLAN

This study of work education programs is an exploratory study designed to document the growth, training strategies, and significant characteristics of 50 successful work education programs in order to find commonalities in their features and characteristics that can lead to recommendations pertaining to the structure of future work education programs and to uncover the variations in these features that lead to their different types of successful outcomes; and to collect data on student and employer participation in the 50 programs which can be used to determine the links between desirable program outputs and student and employer characteristics and goals.

The first step of the data analysis procedures will be the scanning of all data (after kaypunching and verification) by a special data editing program. This program checks each individual data field for values which are inconsistent with the standards that were established for each field. The program checks for data that have been left out, for data of the wrong form (e.g., alphabetic values in fields where numeric information is required), and for data which falls outside the permissible ranges of the specific field. The program then produces a written exceptions report giving the identification number of each case with errors, the fields in which the errors occured, and the specific erroneous values that were detected. Errors detected with this procedure will be rechecked in the original questionnaires, and necessary corrections will then be made to the data base.

The data that will be the basis of our analysis of work education programs can be classified in five groupings, based upon the source of the information. These categories are: Program information, collected from the program administrators, by means of either self-administered questionnaires or in in-depth interview sessions at the program site; data collected from group interviews



- 3

of the students participating in the work education program; data from group interviews with nonperticipating students; data collected in in-depth interview sessions with employers participating in the work education program; and data from nonparticipating employers. Data were also collected from participating and nonparticipating unions; however, due to the small number of unions involved, this data will be treated separately and will be analyzed primarily in a qualitative manner.

The program data is comprised of two distinct sets of variables: independent or predictor variables, which are measures of the structural, organizational, procedural and operational characteristics of these work education programs; and the dependent or outcome variables which tap the various components of success of these programs. The first type of analysis to which both of these categories of variables will be subject is a complete set of descriptive statistics. This will include frequency distributions, means, standard deviations, and ranges for each of the items measured. addition to the inherent value of these descriptive statistics for describing and understanding factors in work education programs, they will be the basis for development of adequate methods for further and more in-depth analyses of these data. This analysis will be used as a first step in combining outcome measures into theoretically meaningful and empirically scalable clusters. Also, and of especial importance, such analysis will be used to distinguish conceptually distinct categories or predictor (independent) variables. First are those predictor variables which show little variance among all the programs under study. When it is kept in mind that all the programs visited were identified as being exemplary to one degree or another, by at least 1 person, we will be able to identify common features and levels of effort which remain constant across most of the programs being examined. For example, it would be important to learn that nearly all the programs under scrutiny maintain a teacher-student ratio no greater than 1:40. For this reason, this type of analysis, identifying clusterings of characteristics common to most of the programs being examined, will be of great value. It



will also allow distinguishing a second set of independent variables - those · which show a moderate or wide range of variation among the programs under study. These variables, then, will become important to test as explanatory predictors of differential rates of success among this set of 50 programs. Two basic types of analysis will be used in this analysis of the relation between predictor variables and outcome measures. First, individual predictor items will be related to outcome measures by means of crosstabulation, and will be tested for statistical significance and strength of association with the chi-square statistics and the appropriate measure for the strength of association (phi or contingency coefficient for nominal variables and gamma, tau or Somer's d for ordinal variables). The second mode of analysis of this data will be to explore what combinations of the independent variables can constitute even more powerful predictors of the outcome measures of program success. For this mode of analysis, two statistical techniques will be employed, depending upon the level or measurement involved and upon the assumptions about the form of relationships to have been measured as interval variables, and when interactive effects can be assumed to be minimal, the highly powerful techniques of stepwise multiple linear regression will be used to find the most predictive sets of variables, and the relative importance of each of the variables within the set. When the data is clearly measured only at an ordinal or nominal level of measurement, and when interactive effects seem likely to be involved, then another similar, but more appropriate statistical technique will be employed. This form of analysis will use the Automatic Interaction Detection (AID) program developed by the University of Michigan Survey Research Institute. We expect this technique to be extensively used because of the nature of the data to be analyzed; i.e., it is usually at a nominal or ordinal level of measurement, and interactive effects in the relationships between predictor and outcome variables can be expected to occur with great frequency.



The next two classifications of data, participating students and participating employers, will be treated in a similar fashion as the program data described above. That is, the same modes of descriptive and explanatory analysis will be employed for the corresponding predictor and outcome measures. In this case, such measures will relate student's or employer's knowledge of the structural antecedant (predictor) variables to their evaluations of program success (their self-reported satisfaction with the work education program with which they are associated.

The predictor variables in the participating student data base have been further subdivided into two groups: Independent variables and intervening variables. This class of intervening variables are those which can be treated as independent variables when related to the dependent outcome measures of student satisfaction; however, in relation to the other independent variables they can be considered as casually dependent. Thus in the crosstabulation analysis they will be treated in both ways - as independent predictors of the outcome variables and as dependent variables to be predicted by the independent variables. In the regression analysis they will be forced into the first step to preserve their logical sequence in the causal chain.

Another type of analysis that will be employed is the comparison of participating students' data to that of the nonparticipating student sample. Both sets of students were asked a large number of identical questions concerning their background and school experiences. If the nonparticipating student was working or had worked in the past 12 months, he was also asked the same questions about his job in the program. Comparison on the first set of corresponding data items will enable us to determine if program enrollees differ significantly on certain characteristics from students not in the program, thus indicating that a process of self-selection is at work, or that most programs have a common set of unofficial selection criteria. Comparisons on the second set of corresponding data items (about students' jobs) will allow us to discover if the jobs of students in a work education



G-7 (page G-8 blank)

program are significantly different from the types of jobs students not in a work education program typically find; i.e., whether the participating students' jobs are more closely related to their career interests, more closely linked to their classwork, or if they often are simply, by various criteria, better jobs. To make these comparisons we will use t-tests of differences between means when the data is at an interval level of measurement. When the level of measurement is nominal (i.e., categorical data) we will use a chi-square test. For ordinal (rank-order) data, we will employ an appropriate nonparametric test, such as Kolmogorov-Smirnov, Mann-Whitney U, or Kruskal-Wallis one-way analysis of variance. Similar statistical techniques will be used to compare structural characteristics of participating and nonparticipating employers.

Finally, average characteristics of participating students and employers at each program site, especially their attitudes towards the program, will be used as intervening variables to further explain and specify the relations between program features and outcome measures of program success.

Figures 1, 2 and 3 present the dependent, independent and intervening variable groups for the program, participating student and participating employer data, respectively. Within each of these major categories are given the major subheadings of variable clusters, the specific variables within these clusters, and the individual questionnaire items that have been used as operational measures of these variables.



Figure 1

PROGRAM

DEPENDENT VARIABLES	ITEM	STATISTICAL TEST	COMPUTER PROGRAM
Success	2,141	SIRIISIICAD 1231	COMPUTER PROGRAM
Program Growth			
Past	Q 9-12a,b	x ² - Test	SPSS
Anticipated	13 - 9	"	11
Student Completion	17b/9	**	11
Effect on Student			
problems			
Dropouts	Q 20	98	u
Absenteeism	21a	te .	11
Tardiness	21b	и	
Grades	21c	, ,	
Motivation	21đ	" #	1
Other Placement	21e		
By Program	Q 41b	и .	11
All related	42b	••	n
Problems			
Number Unresolved	Q 49	e	n
Overall Self-Estimated			
Success Score	Q 51a-x	**	n
are related to:	. '		
INTERVENING VARIABLES			•
Average Student Satisfied		**	n
Average employer satisfied			
With program		**	
With students		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
INDEPENDENT VARIABLES			
Origin & Development	Q 4, 8	•	н
Organization Structure			•
		,,	
Size	Q 9, Allb	"	. "
Staff	6, 7, Allc	H	,
Funding Effectiveness	Al4d/g 28 a-b		
Advisory Committee	38a-c	**	н
	30 u 0		
Instructional Environment			
Teacher-Student Ratio	Q 15	н	H
Job-Related Instruction	24	P1	er e
Facilities	36 a,b	11	ч
	•		
Work Environment			
23.4		,	
OAPP	Q 37a	11	
Facilities	36c,d	17	*
Name I amount them a man	043 44		
Employer Support	Q43, 44		
Provisions for Students			
Eligibility			
Eligibility	Q 16b	41	
Special Provisions	25, 26	(1	11
Counseling	27	· II	11
Follow-Up	30a.	. (4	11
Placement			
In Program	40		11
After Graduation	41a	**	•
			·
A weighted linear combination	•	Stepwise multiple	BMDP2R or
of all above variables		regression	SPSS
	• .	Stepwise prediction	
		for qualitative dat	a
: *	N11 4++	Departmetion	gpcc
	All items	Descriptive Statistics	SPSS
		(frequency	
		distributions,	4
		means, standard	
		deviations, ranges,	
*		etc.)	



Figure 2

STUDENTS

	•		
DEPENDENT VARIABLE	ITEM	STATISTICAL TEST COME	UTER TROGRAM
Satisfaction with	Q 26,		
program is	38, 39		
related to:			
		•	
INTERVENING VARIABLES		•	
Success Ranks		x ² - Test	
Academic grades	Q9	X - Test	SPSS
Employer rating	Form 4, Q71	· •	•
Program Relevance			
Occupational choice	Q 23	н	11
Class & Work	24	•	ti .
Skills training	33	81	**
tions. Buchlane			
Work Problems Interference	Q 22 a-g	••	H
In person ence	X 22 2 9		
INDEPENDENT VARIABLES			
Demographic Factors		•	
Age	Q 6	x ² - Test	SPSS
Sex	- 5a	"	
Marital Status	5b	"	*
Ethnicity	5 c	•	11
Cal E-Calaction			
Self-Selection Reasons for joining	Q 10 a-f	н	
Verpous sat January	¥		
Work Rewards .			
Pay	Q 17b		
Pay raise	17b-17c	• .	
Use of pay	18a-e	•	**
Relation to career	25, 34		"
Work Time			
Work Type Job	Q 32	•	h
Hours	15		BI .
Schedule	14	•	н
Quality	40 (score)	" Guttman Scale	н
Length of Time in Program	Q 12	u	**
2019 21 00 12 11 12 12 12 12	k		
A weighted linear combination		Stepwise multiple	BMDP2R or
of all above variables		regression	SPSS
		Stepwise prediction	
		for qualitative date	
	All items	Descriptive	SPSS
		Statistics	
	•	(frequency	
•	•	distributions,	~
.*		means, standard	
		deviations, ranges,	
		etc.)	



EMPLOYERS

DEPENDENT VARIABLES	ITEM	STATISTICAL TEST	COMPUTER PROGRAM
Satisfaction	Q 21, 72 a-x		
with program	6 23, 24, 25,		
is related to:	28 38 (with		
,	school) 71 (wi	th	
	students)		
INDEPENDENT VARIABLES			
Company		2	
Size	Q 7b&d	x ² - Test	SPSS
Growth	Q 8	**	
Staff	Q 17 c&d	•	**
Goals	Q 18	e	
Objecti ves	Q 17	. · · · ·	ti
Benefits	Q 56	a	t)
Extent of Involvement			
with Program			
Number of Students	Q 11, 12	ti	n
Number/Size	12/7	•	e .
Advisory Committee	√3a	**	į e
Problem Resolution	29	•	H
Final Responsibility	37a-f	11	Ħ
Number of Meetings	39		n
Growth	14	n	н
Growen	44		
Involvement with WE	Q 57	**	н
THEOLYGINESIC WICH WE	27 a-b	**	н
,	2. 2.2		
Union Involvement	Q 65-70		H
OJT			
	1.1		**
Facilities -	Q 62		,, H
Supervision	51, 52	<u>"</u>	" "
Procedures	46-49	,	**
Evaluation	40		
Selection			-
Basis	Q 20a-b	**	**
Standards	44	47	It
E paraco ou	**		
Economic Factors			
Trainee wages	Q 58	10	Þf
Reimbursed expenses	59	**	et
Non-reimbursed expenses	60	•	'n
Increased reimbursement	61	**	tr
INCLEASED LEADER SCHOOL	51		
Student Characteristics			
Tabu i ai au		*	11
Ethnicity	Q 15		
Sex	16	"	**
Completion	31-34	Pt	
A.tendance	35	"	,
Dress	45		"
Interaction with other	FA FF	n	
Employees	54, 55		
Safety	30a-c	· ·	
Abilities as Regular Employee	4la-d, 43	n	#
·	*1a-u, 43		•
A weighted linear combination		Stepwise multiple	BMJP2R or
of all above variables	•	regression	SPSS
are ducks autioniss		Stepwise prediction	
•		for qualitative day	
		- •	
	All items	Descriptive	SPSS
		Statistics	
		(frequency	
		distributions,	
		means, standard	
	•	deviations, ranges	,
		etc.)	

