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ABSTRACT

A 2-year project was conducted to improve the productivity of the work force through improvement of literacy skills in the workplace by providing instruction to employees in the printing industry in the Baltimore (Maryland) metropolitan area; Carroll County and Charles County, Maryland; and York, Pennsylvania. The project was organized with input from the six companies whose workers participated. The curriculum, which had been designed during a previous grant period, was updated, and recruiting materials were developed. Potential students were assessed using standardized tests, and workers who were interested were placed into the program on one of three levels according to their needs. Instruction was provided with a great deal of flexibility to meet the needs of as many workers as possible. Workers who participated in the program reported that they read and write more and use mathematics better. Evaluation of the project was positive. However, constant staff changes, both in the project and in the companies, made the project more difficult to implement. (Project materials, including a sample of the curriculum and a third-party evaluation, are included in the report.) (KC)



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ADVANCING A WORKPLACE LITERACY
CONSORTIUM FOR THE
PRINTING INDUSTRY

MAY 1993 - APRIL 1995 FINAL REPORT

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ABSTRACT

1. PROGRAM TITLE: NATIONAL WORKPLACE LITERACY PROGRAM

(CFDA 84.198A)

2. PROJECT TITLE: SKILLS TODAY FOR TOMORROW:

IMPLEMENTING WORKPLACE LITERACY CONSORTIUM FOR THE PRINTING INDUSTRY

3. AWARD NUMBER: V198A30146-93A

4. <u>PROJECT DIRECTOR:</u> LAURA E. WEIDNER

(410)455-4501

5. <u>FUNDS:</u> FEDERAL: \$323,809.33 NON-FEDERAL: \$300,283.00

TOTAL FUNDS: \$624,092.33

FEDERAL FUNDS: 52% OF TOTAL FUNDS

6. <u>AWARD PERIOD:</u> 5/1/93 - 4/30/95

7. FEDERAL OFFICERS: MELISSA MORRILL, PROGRAM OFFICER

JULIUS C. COTTON, GRANTS OFFICER

8. <u>PARTNERS:</u> CATONSVILLE COMMUNITY COLLEGE

PRINTING INDUSTRIES OF MARYLAND

CARROLL COMMUNITY COLLEGE

CHARLES COUNTY COMMUNITY COLLEGE HARRISBURG AREA COMMUNITY COLLEGE

YORK GRAPHIC SERVICES

SHERIDAN PRESS

GARAMOND PRIDEMARK PRESS

OSCAR T. SMITH PRINTING COMPANY

DICK WILDES PRINTING

AUTOMATED GRAPHIC SERVICES

MCGREGOR PRINTING

9. <u>PURPOSE:</u> THE PURPOSE OF THIS PROJECT IS TO IMPROVE THE PRODUCTIVITY OF THE WORKFORCE THROUGH IMPROVEMENT

OF LITERACY SKILLS IN THE WORKPLACE BY PROVIDING INSTRUCTION TO EMPLOYEES IN THE PRINTING INDUSTRY IN THE BALTIMORE METROPOLITAN AREA, CARROLL COUNTY,

CHARLES COUNTY, AND YORK, PENNSYLVANIA.





INTRODUCTION

Catonsville Community College (CCC) and Printing Industries of Maryland have enjoyed a long-standing mutually beneficial relationship for over 17 years. PIM and CCC worked together to develop a grant resulting in the establishment of CCC's two year degree program in Printing Management Technology, as well as a certificate program in printing. The relationship between PIM and CCC is currently stronger than ever. Together, the association and the college have formed the printing curriculum for the JTPA program, acquired equipment to be used in college printing and upgrade training programs, and developed hands-on training for representatives in the industry.

In early 1990, the PIM Education Committee approached CCC about a growing concern in the industry relating to the basic skills levels of employees. Several local companies had expressed some degree of alarm at their employees' inability to perform tasks requiring basic reading and/or math skills. This local concern was validated further by a study conducted by the National Association of Printers and Lithographers (NAPL) in 1990. This survey reported the lack of adequate basic skills to meet basic job requirements in:

41% of bindery workers38% of press workers30% of materials handling workers28% of pre-press workers

Catonsville and PIM conducted a local survey which indicated similar levels of skill deficiencies among workers in the Baltimore Metropolitan area. As a result, PIM asked Catonsville to develop a program to meet those needs.

In 1991, using these surveys as evidence of need, CCC & PIM were awarded a \$240,500 grant by the U.S. Department of Education under the National Workplace Literacy Grant program. With these funds, CCC and PIM created and implemented a workplace literacy program for eight printing companies in the Baltimore metropolitan area. **Skills Today for Tomorrow**, as this program is called, was tremendously successful in providing instruction in basic reading, writing, math, critical thinking, problem solving, and communications skills to area workers, and received both local and national recognition for the quality of the program.

Due to the success of this program, and in order to expand and replicate **Skills Today for Tomorrow** regionally, CCC was awarded a second grant of \$385,161 in 1993. This project tested the replicability of the **Skills Today for Tomorrow** model of workplace literacy skills



training through the involvement of three regional community colleges: Carroll Community College, Charles County Community College, and Harrisburg Area Community College, with the goal of implementing it elsewhere in Maryland or the United States at a relatively low cost.

This document reports the process, outcomes, and recommendations of this second grant for **Skills Today for Tomorrow**.



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START-UP

Catonsville Community College began preparations for the start-up of this 1993 project several months prior to the May 1993 funding date. The college was able to do this because the project director from the first grant was employed by the college during the interim between the grants to do other projects. Initial steps were taken to begin hiring project staff, coordinating with partner colleges, and re-opening negotiations with the business partners.

The Education Committee of PIM served as the Management Council for the project. This committee is comprised of the Vice President of PIM, ten printing owners and managers who serve as representatives of the more than 400 PIM members, and a representative from the Continuing Education Division of Catonsville Community College. In addition, the **Skills Today for Tomorrow** Project Director attended Education Committee meetings.

The Management Council played a very important role in the project. The Project Director constantly sought input and recommendations from this Council. Because the Education Committee members represent different components of the graphic arts industry (small, medium, and large firms, paper suppliers, ink suppliers, pre-press firms, composition firms, and binderies, among others), they were able to offer excellent suggestions for addressing many of the questions encountered in the project. In addition, since the project staff holds primarily an education background and focus, the business acumen of the Management Council was invaluable.

Six companies had agreed to participate in Skills Today for Tomorrow:

Dick Wildes Printing
McGregor Business Forms
Sheridan Press
York Graphic Services
O. T. Smith Printing Company
Garamond-Pridemark Press

Sheridan Press, the largest partner, withdrew from the partnership due to complete change in management. The new management team, burdened with changing financial circumstances, was not able to support the project. A number of other companies had approached PIM and Catonsville Community College requesting the opportunity to participate in **Skills Today for Tomorrow**. As the project progressed and it became clear



that at least one major partner had withdrawn, the project was able to offer classes at the following companies as sites in the project:

Advantage Book Binding Catterton Press Landmark Printing Oles Envelope Co. Direct Marketing Associates

A summary chart of the roles of each of the partners in **Skills Today for Tomorrow** follows.



PARTNER RESPONSIBILITIES

	CATONSVILLE		1 1	OTHER
	COMMUNITY		PARTICIPATIN	PARTNER
RESPECTIVE ROLES OF THE PARTNERS:	COLLEGE	PIM+SP	COMPANIES	COLLEGES
ACTIVITY A				
PLAN/ADMINISTER PROJECT				
PROVIDE INSTRUCTION	· ·			
CONDUCT ASSESSMENTS		-		
DEVELOP/ADAPT CURRICULUM	,			
SCHEDULE CLASSES				
PROVIDE COURSE MATERIALS	~			
HIRE PROJECT STAFF				
MANAGE BUDGET				
PROVIDE ADVISING/ACADEMIC SUPPPORT SERVICES				
EVALUATE PROJECT				
PLAN/PRODUCE PROMOTIONAL VIDEO				
AID IN PARTICIPANT SELECTION				
PROVIDE ON-SITE SUPPORT			,	
PROVIDE INSTRUCTIONAL SPACE				
PROVIDE SUPPORT SERVICES				
PROVIDE EQUIPMENT, STORAGE, ETC.				
CONDUCT RECRUITMENT/MARKETING				
MARKET VIDEO			·	
SERVE AS LIAISON BETWEEN PARTNERS				
ACTIVITY But the responsible of the second o		115 720 BST	V 1-0 20	
PLAN/ADMINISTER PROJECT				_
APPROVE SELECTION OF INSTRUCTORS				
PROVIDE CURRICULUM MATERIALS				
MANAGE BUDGËT			_	
INSURE INSTRUCTIONAL QUALITY				
PROVIDE STAFF DEVI:LOPMENT FOR PARTNER COLL	ĒĠ			
EVALUATE PROJECT		,		
OVERSEE DAY-TO-DAY OPERATION OF PROJECT				
SELECT INSTRUCTIONAL STAFF				
PROVIDE ADVISING/ACADEMIC SUPPPORT SERVICES				
CONDUCT ASSESSMENTS				
PREPARE REPORTS - QUARTERLY, BUDGET, DATA				
PROVIDE INSTRUCTION				
SERVE AS LIAISON BETWEEN PARTNERS				
AID IN PARTICIPANT SELECTION				
PROVIDE ON-SITE SUPPORT				
PROVIDE INSTRUCTIONAL SPACE				
PROVIDE SUPPORT SERVICES				
PROVIDE EQUIPMENT, STORAGE, ETC.				•
CONDUCT RECRUITMENT/MARKETING				



STAFFING

Staffing under the original proposal consisted of the following:

Project Director	100%
Curriculum/Assessment Coordinator	100%
Educational Counselor	80%
PIM Liaison	25%
CCC Administrator	10%
Project Secretary	100%
Program Coordinators (colleges)	25%
Site Coordinators (companies)	10%

Instructors were hired on an adjunct, as needed, basis to reduce instructional costs, to maximize time and schedule flexibility, and to enable CCC to serve multiple sites at one time.

The staffing of the *Skills Today for Tomorrow* project was planned to meet the varied and diverse needs of an undertaking of this size. In addition to the Project Director, who was responsible for the overall management of the program, a Curriculum/Assessment Coordinator was hired in order to supervise the instructors, review course proposals, coordinate assessment reports, as well as approve and evaluate instructional materials. To provide 1-1 counseling for participants with regard to their educational goals, objectives, and plans, and provide assistance to instructors as they develop individual learning plans for students, an Educational Counselor was added to the team. At each partner college, a Program Coordinator was designated to schedule assessments and classes, market the program, select instructional staff, and oversee the day-to-day operations of the project within the partner college's service area. Finally, each participating company was to appoint a Site Coordinator to schedule and announce meetings, assessments, training facilities, and equipment.

All staff members were carefully evaluated to determine their qualifications, experience, and capabilities. Flexibility and commitment to working with adults were two of the primary qualities required of all staff members.

Staffing challenges began when both the Curriculum/Assessment Coordinator and the



Educational Counselor originally proposed were unable to assume the duties of the positions, necessitating an outside search for qualified individuals. A search was conducted and a Curriculum/Assessment Coordinator was hired. After a series of initial planning and implementation meetings with the partner colleges, the decision was made to hire the Educational Counselor on an adjunct basis. Again this was to maximize the project dollars and flexibility. Since project sites were in four Maryland counties and in Southern Pennsylvania, travel time and money for a single counselor would have substantial. Adjuncts could be hired at each location, saving those resources, and providing an additional benefit of local expertise and knowledge of potential resources for students. Two-thirds of the way through the project, the Curriculum/Assessment Coordinator resigned to take a permanent position elsewhere, necessitating replacement with contractual staff. Due to the proximity of the conclusion of the program (less than six months), replacement with full time staff would have been impossible. In addition, there were numerous staffing changes of the Program Coordinators at the partner community colleges, disrupting the continuity of the program, and diminishing further the commitment of the partners. Similar changes of key contacts at participating companies produced diminished commitment to the project at the work-sites. These issues, while potentially a problem in any project of this nature, were particularly difficult in a project of this geographic diversity.

SKILLS TODAY FOR TOMORROW - PROJECT STAFF

Project Director Laura E. Weidner

Curriculum/Assessment Coordinator Ruth Markulis

Linda A. Metz*

Educational Counselors Diane Johnston

Sara Waldron Pete White

PIM Liaison Patricia Martin

Project Assistant/Secretary Mary Claire Monroe

Brett Cloyd*



Program Coordinators

Harrisburg Area Community College

Larry Gingrich Linda McKeever** Rachel Gibbs**

Carroll Community College

Ellen Willis
Elaine Smith**

KathleenMenasche**

Charles County Community College

Louise Buchanan Arlene Taylor**

Adjunct Instructors

Catonsville Community College

Linda A. Metz Constance C. Smith Daryl L. Reaney Donna Dziuban Joan L. Feeney LeRoy Jones

Harrisburg Area Community Colleges

George Mierisch Ruth Rothingshofer Tom Diffenbach Victor Solenski

Carroll County Community College

Mary Jo Winter

Charles County Community

James Cecil Barbara Allen



^{*} Contractual replacements

^{**} Replacements

INITIAL IMPLEMENTATION STEPS

Since this project was the second NWLP Catonsville Community College was implementing, the program model had already been developed. Project staff began working immediately with the partner colleges to train their program coordinators. Some difficulty was met here as the project responsibilities at two of the partner colleges were handed to different individuals than had been originally identified for the project. This meant more training and orientation sessions to prepare the partner colleges.

The Project Director met several times with the "contact person" at each company prior to meeting with the management. Meetings with top management were essential <u>prior to</u> the employee recruitment phase. A series of handouts was shared with company management at these meetings. (SEE EXHIBIT A) At these upper-level management meetings the following issues were discussed:

- -Need for basic skills instruction in industry in general and in this firm in particular.
- -Commitment of CEO and other top management to offering **Skills Today for Tomorrow** to company employees.
- -Role of CCC staff and program: important, yet secondary to primary function of the company, i.e. getting the job done.
- -Advantages of voluntary participation by employees.
- -Necessity of confidentiality of all employee records.
- -Release-time configurations for classes:
 - -100% company time
 - -100% employee time
 - -50% company time/50% employee time (strongly encouraged)
- -Process/progress of the project:
 - -Interest generating sessions
 - -Literacy Task Analyses
 - -Curriculum development (on-going)
 - -Employee needs assessments
 - -Instruction



- -Cost to the company:
 - -Site Coordinator
 - -Release-time
 - -Instructional space
 - -Miscellaneous supplies
- -Record-keeping requirements

Once these issues were resolved with management, the Project Director met with front-line supervisors. This step was critical to the successful implementation <u>and</u> continuation of **Skills Today for Tomorrow** at each company and its importance must be emphasized. At supervisor meetings the following issues were discussed:

- -Need for basic skills instruction in industry in general and in this firm in particular.
- -Commitment of CEO and other top management to offering **Skills Today for Tomorrow**.
- -Role of CCC and partner college staff and program: important, yet secondary to primary function of the company, i.e. getting the job done.
- -Process/progress of the project:
 - -Interest generating sessions
 - -Literacy Task Analyses
 - -Curriculum development (on-going)
 - -Employee needs assessments
 - -Instruction
- -Necessity for on-going communication between supervisor, site coordinator, and Project Director.
- -Confidentiality



- -Role of the supervisor in recruitment:
 - -Encouraging employees to get involved
 - -Arranging schedules to accommodate participants
 - -Positive attitude & actions toward program
- -Specific needs within each department--supervisors were asked to help identify basic skill areas that needed to be addressed.
- -Identification of two or three competent workers within each department to participate in the Literacy Task Analyses.

Most supervisors, as far as CCC was able to ascertain, were supportive of the project. They were willing to release employees to attend class, as long as accurate attendance records were kept. Their concerns centered around schedule changes needed when workers were in class during work hours. The Project Director met this concern with assurances that the <u>job</u> was the primary concern, and **Skills Today for Tomorrow** staff would be flexible and adjust for contingencies such as rush jobs, short-handed days, and the like.

Another common thread was a concern that employees whom the supervisor "knew" really needed the program would not voluntarily become involved. Lengthy discussion centered on this topic, but the advantages of voluntary participation outweighed the desire to involve reluctant or unwilling individuals. Based on previous experience, project staff believed that word-of-mouth promotion after the first round of classes would encourage workers who were reluctant at the beginning.



MARKETING THE PROGRAM

The goal of this plan was to encourage other PIM member companies to participate in **Skills Today for Tomorrow**, enabling the project to meet its training goals. The Project Director designed a set of handouts to share with company management when discussing the project, used posters, brochures, and other materials to use in both marketing and recruitment. (See Exhibit B)

In addition, a marketing video, featuring actual students, instructors, and management from participating firms in the **Skills Today for Tomorrow** project, was created and used as a recruiting tool for promoting the program within printing companies. This video highlights the industry need for basic skills training, with the primary goal of obtaining management buy-in and employee recruitment.

The PIM Vice President made initial contact with member companies that had expressed an interest in becoming involved. She personally contacted members that might be interested. It was especially effective for the initial contact to come from the professional trade association rather than the college. In addition, she published articles in the PIM members' newsletter encouraging inquiries.

As reports of **Skills Today for Tomorrow** spread throughout PIM membership, more and more companies requested the opportunity to become involved. Thus, the expansion of the project to Southern Pennsylvania (York Graphic Services), Southern Maryland (Automated Graphics and Dick Wildes Press), and Western Maryland (McGregor Printing), enabled CCC and PIM to plant the seeds of the project at strategic points throughout the state and region.

Once the initial contact had been made, the Project Director scheduled meetings with representatives at interested companies, making the "pitch" to get involved. Some of the difficulties encountered in this process included:

- -Most printing companies are small, less than 25 employees, making the logistics of on-site instruction difficult and not cost-effective.
- -Some of the companies were union-represented, and others were not. Non-union companies were reluctant for their employees to share classes with union-represented workers.



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-In small companies of 25 or fewer employees, employers were very concerned about releasing 8-10 workers for classes. There would be a far greater impact on the production line than in a larger company.

The Project Director approached the following companies to become involved as sites in **Skills Today for Tomorrow**. Those marked with an asterisk participated in the program.

- * Advantage Bookbinding
- * Catterton Printing
- * Direct Marketing Associates
- * Landmark Printing

Lawson-Marden Labels

* Oles Envelope Corp.

Sullivan Graphics



EMPLOYEE RECRUITMENT

An integral part of the Project Director's assignment was employee recruitment. Since every company participating in *Skills Today for Tomorrow* had agreed to a completely voluntary program, an effective campaign to encourage worker involvement was critical. The distant sites of this project made it necessary to train other project staff to conduct employee recruitment sessions. The project director could no longer conduct all of the sessions. This process was done through a combination of direct instruction and on-the-job observations and training for the Curriculum/Assessment Coordinator and the Program Coordinator at each college.

The company scheduled employee meetings for the purpose of generating interest in the program among workers. CCC insisted that meetings be made available to <u>all employees</u>. Wherever possible, employee attendance at these interest-generating meetings was mandatory. The Project Director requested a minimum of 20 minutes and a maximum of 30 for each meeting. The company determined meeting times, locations, and number of workers in attendance.

These meetings took different forms at each company. In some instances, the Project Director spoke to employees as part of a regularly scheduled department or plant meeting. Other times, employees were scheduled in small groups for special meetings usually held in the company cafeteria. At one site, the plant manager simply shut down the loudest presses and employees gathered round an empty pallet while the Project Director spoke above the hum of other machinery.

Despite management's consistent predictions of low response, these meetings were extremely successful in recruiting employees for the program. Several factors contributed to the very positive response by employees at these meetings:

- -Project Director approached employees on a very personal level.
- -Tone of these meetings was low pressure and low key.
- -Management, usually the CEO, introduced the Project Director and expressed strong support for **Skills Today for Tomorrow**.
- -Educational goals that extended to the personal level were addressed.



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- -Differences between **Skills Today for Tomorrow** and the K-12 school experience were stressed.
- -Individualized instruction, based on goals and needs of each participant, was highlighted as hallmark of the program.
- -CCC presented this as an opportunity, one not likely to recur in the near future.
- -An outside provider has an advantage of not being part of the company, its culture, and its politics. The Project Director remained neutral on those issues, helping to gain the workers' trust.
- -Employees were more willing to enroll in classes conducted by a college. Attending Catonsville Community College, even as a continuing education student, was viewed as more positive than taking "reading classes".

Finally, and perhaps the most significant factor contributing to the success of these meetings, relates to the expected outcomes of the session. Employees were not expected, or even permitted, to sign up for classes after these sessions. The <u>only</u> commitment workers made was to attend an assessment session to help them and the college determine <u>if</u> they needed basic skills classes. This approach was less threatening to workers than committing to twelve weeks of classes. More were willing to "test the waters" by taking the assessment with no further commitment required. Interestingly enough, almost all workers whose initial assessment indicated a need for classes did sign up for classes. Data demonstrating the success of the employee recruitment program are included in the Outcomes and Objectives section of this report.



ASSESSMENT

The first step in the assessment process was an evaluation of current and future literacy demands of the printing industry. This step was begun prior to the initial implementation of **Skills Today for Tomorrow**. A CCC team conducted literacy task analyses at six PIM member companies in 1990. As a result of the work of this committee, a list of competencies was developed and has since been correlated with the competencies identified through the CASAS assessment instruments.(**SEE EXHIBIT C**)

The assessment procedures delineated in the original proposal had to be altered slightly. The NAPL WorkPLACE^R program assessment instrument is an anonymous needs assessment that company managers may administer, send to NAPL for scoring, and analyze results to determine if there is a basic skills need in their plants. This type of assessment, while filling an important need in the industry, did not meet the needs of **Skills Today for Tomorrow**. In addition, the Maryland State Department of Education mandates that literacy programs in the state use the Comprehensive Adult Student Assessment System (CASAS) to unify reporting data. Therefore, **Skills Today for Tomorrow** assessed participants using CASAS.

Initial assessment was for placement purposes only. Employees who signed-up for assessment at the interest-generating sessions committed to a two hour assessment session. The "T Word" (test) was never used, and assessment was used only in a limited way. Instead the sessions were called "Information Sessions" or "Orientation Sessions" and the purpose defined as:

- an opportunity for interested workers to ask questions about the program
- an opportunity for CCC staff to <u>measure</u> each worker's skills to determine if the program is needed

The company scheduled assessment sessions on company time approximately one-two weeks after the employee meetings. It was important to maintain the interest and excitement generated at the meetings prior to the assessment sessions. Assessments were conducted in groups of up to 25 individuals, frequently back to back, and in some cases, all day and all night long.

ERIC

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The Curriculum/Assessment Coordinator conducted the sessions. A portion of the time was committed to reducing test anxiety for the workers. For most of the participants, this was the first test they had faced in many years. The CASAS Workplace Appraisal Form 200 was used for reading placement and the Maryland version of the CASAS math appraisal Form 75 was used for math placement. Both tests are untimed, but most workers were finished with each assessment in approximately 30-40 minutes. In addition, a workplace-based writing sample was solicited from each participant.

The Curriculum/Assessment Coordinator scored all assessments and prepared individual reports for employees in sealed CCC envelopes. Project staff returned to the company approximately 1-2 weeks after assessment to report scores to the workers and begin the enrollment process. Scores were returned in group meetings with an interpretation presented for all levels. Only the individual employee knew which level referred to his or her specific situation. The Project Director and other staff members were available for individual counseling sessions after the general reporting session.

After employees received their scores, they completed an "Interest Statement," indicating their decision and commitment to involvement in *Skills Today for Tomorrow*. The results of these interest statements were compiled and given to the Site Coordinator at the company for scheduling purposes. All class scheduling was done by the company.

This system worked quite well. Employees did not feel compelled to enroll in classes, but based on their needs, knew which level to enroll in if they were interested. Most employees who indicated a need on the appraisal expressed interest in classes. Some were unable to attend due to scheduling conflicts, however. If an employee did not enroll in classes, confidentiality was maintained by this system and the employer did not know that worker's level of need.

The CASAS, though certainly not a perfect instrument for measuring worker needs, had an unanticipated advantage in this situation. Workers were NOT demoralized or discouraged by their scores, even if the scores were quite low. CASAS is a competency-based assessment and results are reported as scale scores. There are no grade level, percentage, or other readily-identifiable indicators of level. Each employee received a three-digit number which had no inherent meaning to him or her. The Project Director explained those scores in terms of **Skills Today for Tomorrow** and in which part(s) of the program the worker should enroll. Few workers, if any, left the score sessions feeling they had failed another test.

ERIC Full fext Provided by ERIC

Workers were placed into the program according to the following guidelines:

RECOMMENDED LEVELS OF CLASS ENROLLMENT:

(represents scale scores on initial appraisal)

Level 1:

either reading or math < 221

Level 2:

either reading or math 221-230

Level 2+:

both reading and math ≥ 231

LEVEL I ASSESSMENT

Once employees began their Level I classes, the CASAS Survey Achievement tests (Forms 31 -36) in Reading and Math were administered to identify specifically which competencies they needed to master. In addition, each participant produced a writing sample which was evaluated by the instructor. The experience of this project indicated that workers scored much higher on the Survey Achievement test than the appraisal scores would indicate. In several instances, a higher level of the Survey Achievement test needed to be administered in order for the instructor to identify the individual's needs.

The following criteria were used to place learners in the correct Survey Achievement test:

SCALE SCORE INTERPRETATION FOR APPRAISAL:

(used to determine which level of pre-test to administer)

Reading <200:

Level A

Math

<200:

Level B

Reading

200 - 215:

Level B

Math

200 - 215:

Level B

Reading

216+:

Level C

Math

216+:

Level C

Another problem with the CASAS that surfaced almost immediately made it difficult to relate CASAS scores to the printing industry-identified competencies the project was to address. To alleviate this problem, CCC used an item-analysis correlation of the CASAS tests forms 31-36 developed during the first round. [SEE EXHIBIT C] This enabled all instructors to identify immediately the individual's needs in terms of the industry-identified



competencies. Those competencies not measured by the CASAS were measured by the instructor using more informal diagnostic procedures once class had started. In addition, CASAS assessments generally do not register measurable gains without a minimum of 75-100 hours of instruction between administration of the pre and post forms. Level I classes in **Skills Today for Tomorrow** were scheduled for 48 instructional hours.

LEVEL II ASSESSMENT

Each module in Level II had its own pre and post assessment. The CASAS system was not used in the Level II modules.(SEE EXHIBIT D)

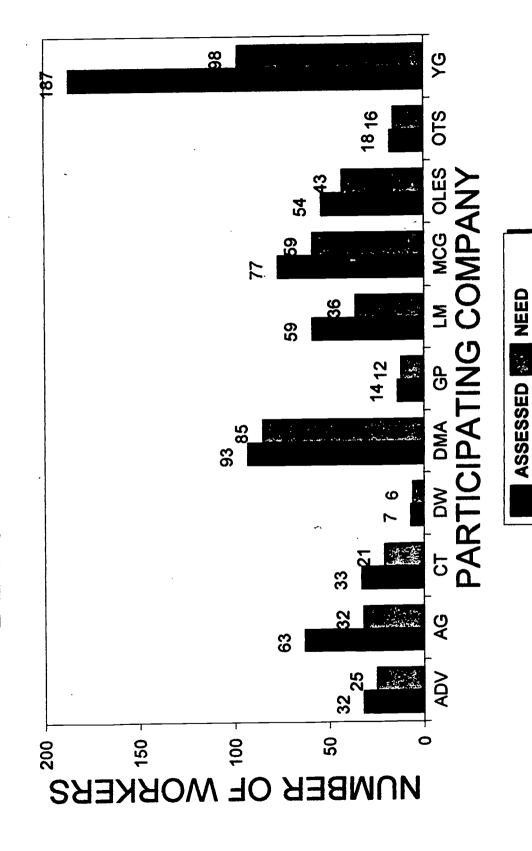
CUSTOMIZED ASSESSMENT

As part of this project CCC had proposed to develop a new work-based assessment instrument. During the first project, project staff felt the need for a single assessment that would provide both placement and diagnostic information during the initial assessment sessions. The goal of creating a new assessment was to meet this need, reducing assessment time and providing valuable information prior to the start of classes. Much of the development of this assessment was done by an instructor/developer from the first round grant. She used materials and documents from participating companies to develop test items. A panel of reviewers evaluated each test question and assigned a level of difficulty to it to place it in one of three levels. The panel of reviewers were reading and math basic skills experts, college faculty, and workplace literacy instructors.

Unfortunately, the assessment instrument was not developed in time to use in the project, since classes began almost immediately. Therefore, it was field-tested in classes outside the workplace literacy grant. A number of difficulties were identified and the developer made revisions to the original instrument. She also developed a post-assessment instrument to measure gains after instruction. Both instruments need further field testing to validate their effectiveness. A copy of each is included in this report. (SEE EXHIBIT E)



WORKER ASSESSMENTS DEMONSTRATED NEED







INSTRUCTION

Skills Today for Tomorrow was designed with a great deal of flexibility to meet the needs of as many workers as possible during the eighteen months of the project. The program focused on worker needs at two levels. Placement into the program was based on an initial appraisal. (see Assessment section) Placement recommendations were made to employees when they received their scores.

All classes, regardless of level and content, met twice weekly for two hour sessions. Classes were scheduled at shift changes since the employees were granted 50% release time. (At one company, McGregor Printing, classes were offered 100% on company time and thus completely during the work day.) All classes were held on-site at the participating company. One site (Automated Graphics) served as a cooperative site and employees from more than one company attended classes as that site. For a complete description of classes at each site, refer to the "Site Summary" pages of this report.

LEVEL I

Placement into Level I classes indicated that a worker's skills were not sufficient to enroll in Level II classes. Level I featured greater flexibility in both scheduling and curriculum. For registration purposes, these classes were twelve weeks in duration, four hours per week for a total of 48 instructional hours. However, Level I classes were open-exit, and each participant was able to exit upon demonstrating mastery of the competencies he/she needed. If, at the completion of the scheduled class, some of the workers had not yet mastered all of their competencies, a second round of Level I classes was scheduled, with instruction picking up where it stopped.

The instructional approach in Level I was individualized and competency-based. Upon entry into the program, each participant met with the instructor to discuss individual goals and the results of the diagnostic assessment. During these sessions, the learner and instructor cooperatively developed the Individual Learning Plan (ILP) which would guide the learning process during the class. **[SEE EXHIBIT F]** Both the instructor and learner signed the ILP indicating joint agreement with the program.

Instructors maintained a "Competency Profile" on each learner. [SEE EXHIBIT G] This profile indicated which industry-identified competencies the worker demonstrated upon entry into the program and the date others were mastered. This profile provided valuable data for each instructor as the learner progressed through the program. It also gave the



student visible evidence of his or her progress. This was especially important when little or no evidence of progress manifested itself in post-test scores.

Level I instruction in **Skills Today for Tomorrow** covered reading, writing, and math each class. Because the instruction was so individualized, learners focused only on those areas in which they needed help. A wide range of skill levels existed in each of the Level I classes, from little or no reading skills to approximately 7th or 8th grade level. (This is only an estimate as no assessment to determine grade level was administered.)

Instructional delivery took on numerous forms. A limited number of teacher-directed lessons was included in the class. Each instructor used varying amounts of grouping, cooperative learning activities, peer-tutoring, and independent work. Since each class was unique, this flexibility was essential, and proved very effective. Learners were delighted, and surprised, to learn from and help each other during and between classes.

Upon completion of the competencies in Level I, most learners were ready to enroll in one or more of the Level II modules.

LEVEL II

Some workers were placed directly into Level II classes as a result of the initial appraisal. Others enrolled in Level II modules after completing the Level I classes. Level II was comprised of three distinct classes:

On the Job Math	12 weeks	48 hours
Critical Thinking & Problem Solving	8 weeks	32 hours
Workplace Communications	12 weeks	48 hours

These three classes were offered as separate modules. While no particular order was required, these classes generally followed the above sequence. Each module had defined start and end dates, and open-exit was not an option.

Each module included a pre and post assessment specific to the curriculum. As in the Level I classes, instructors maintained a "Competency Profile" on every learner to document competency gains in meeting the objectives of the module. [SEE EXHIBIT G] Instructional delivery in the Level II classes included more teacher-directed lessons for the most part. However, the Critical Thinking and Problem Solving module involved a great deal of group work, since the problem solving model used a team approach.



LITERACY TASK ANALYSES

Skills Today for Tomorrow instructional staff conducted Literacy Task Analyses (LTA) in order to develop a job-specific curriculum and to offer an effective work-based education program. Since the project included eight different companies representing very diverse areas of the printing industry, an LTA of every job in every company was out of the question. This was further exacerbated by the unavoidable delays in hiring and the necessity of starting classes almost immediately.

The Curriculum/Assessment Coordinator, working with the instructor/developers, customized the LTA process to meet the unique needs of this project. During the initial supervisors meetings the Project Director asked supervisors to identify specific needs in their respective departments. Most were eager to state what their workers needed to do better. Supervisors also identified two or three competent workers from their departments. The Project Director requested workers who would be able to clearly articulate the details of their jobs. Each supervisor and competent worker involved in the process also helped by providing both blank and completed copies of various workplace documents.

[SEE EXHIBIT H] To streamline the LTA process, the developers met with workers from one department in a group to gather details about the tasks done in that department. Later the workers took the developers onto the plant floor for observations of the job in progress. Developers were permitted to spend as much time as needed watching workers and asking questions. These interviews and modified shadowing produced sufficient data for the developers to develop the curriculum. Additional documents and information rapidly surfaced once classes began and each instructor asked learners in that class to identify their job tasks and needs. This process took place at all sites in **Skills Today for Tomorrow**.



CURRICULUM

Curriculum development was an integral part of **Skills Today for Tomorrow**, and graphic arts industry-specific curricula in basic skills, critical thinking, and communications were the end products of the project.

LEVEL I

In addition to using the curricula developed during the first workplace literacy project, the instructional staff created new curriculum activities for Level I using the Literacy Task Analyses (LTA) and documents from each company that participated in the project. This curriculum, which includes reading, writing, and mathematics activities, focuses on basic skill improvement at levels below the 8th grade. Since the basis of the this curriculum was developed during the initial grant, most of the Level I development conducted during this project was supplementary in nature. Copies of any new activities are included in this report. Each learning activity in the Level I curriculum is based on one of the objectives identified by the PIM committee and the CCC instructional team as necessary for the printing industry. Employees concentrated only on those objectives in which the assessment indicated a need, allowing each individual to exit the program upon attainment of the necessary competencies. The Project Director and Curriculum/Assessment Coordinator, working in conjunction with the instructors, purchased additional commercially-published materials to supplement the job-specific curriculum. This blending of curriculum materials worked quite well.

A list of those materials follows.



SUPPLEMENTARY MATERIALS - LEVEL I CURRICULUM

TITLE

PUBLISHER

Math

Math Skills by Objective, Books 1 - 3

Basic Essentials of Mathematics, Books 1-2

Number Skills for Life & Work

Pre-GED Math Exercises

Breakthrough to Math

Practical Problems in Math for Graphic Arts

Cambridge

Steck Vaughan

Simon & Schuster

Cambridge

Center/Workforce Ed.

Delmar

Reading

Reading for Workplace Success

Megawords, Books 1-8

Reading Skills for Life & Work

Pre-GED Reading

Paradigm

Educators Publishing

Simon & Schuster

Cambridge

Writing

Writing for Workplace Success

English Skills by Objective, Books 1 - 3

Document Skills for Life & Work Language Exercises for Adults

Pre-GED Writing

Paradigm

Cambridge

Simon & Schuster

Steck Vaughan

Cambridge

Other

More Than A Job

Thinking Skills for Success

Center Workforce Ed.

Paradiam



LEVEL II

Level II used the Math Module of the WorkPLACE curriculum designed by NAPL and the Carl Didde Corporation to address the specific skills needs of the printing industry employees. (SEE EXHIBIT I) The objectives of the Level II curriculum have been correlated with the competencies identified by PIM to ensure and appropriate instructional program.

During the first grant, project staff did extensive research into various known models for problem solving and developed a five-step model affectionately known as the DOSIE:

- D Define and analyze the problem
- O Originate solutions
- S Select a solution
- I Implement a solution
- E Evaluate the solution

Workers learned this process and applied it in a wide range of problem solving applications in the Critical Thinking/Problem Solving Module. The Curriculum/Assessment Coordinator refined this model and reworked the materials during this second project. The revised materials included new assessment methods, a set of five review/quick reference cards for the learner, and new problem-sets. Additionally, an instructor's manual was also developed. A copy of this curriculum is included with this report.

The Communications Curriculum used in the first grant had been put together quickly to replace the yet-to-be-published NAPL curriculum and the project staff was not fully satisfied with it. During this second grant, the Curriculum/ Assessment Coordinator completely re-wrote and developed a Communications module to be used in this project. This module included not only the reading and writing components, but also stressed verbal and non-verbal communications on the job. A copy of this curriculum is included with this report.

The NAPL WorkPLACE^R curriculum entitled <u>On the Job Math</u> formed the basis of the Onthe-Job Math module. This project was one of the first nationwide to implement this curriculum into a workplace learning program.



PARTICIPANT RECOGNITION

Since many of the participants in **Skills Today for Tomorrow** have not been in any kind of educational program for quite a few years, the project staff felt it was important to encourage success by celebrating success. Once this process was implemented, it grew and became an integral part of every class.

Skills Today for Tomorrow participants who successfully completed the program received a Catonsville Community College Continuing Education certificate. This certificate is issued to all individuals who complete CCC continuing education classes. Generally, the certificate is mailed to the students' homes. However, in **Skills Today for Tomorrow**, the project staff held a graduation at the end of each class at each site. Invited to the ceremony were the CEO of the company, plant managers, supervisors, CCC representatives, and PIM representatives. The presence of the company and project partner leadership added to the significance of the event for the participants.

All of the guests were invited to speak to the class if they desired. The Project Director presented the certificates to each participant, offering each the opportunity to speak to the group. Generally participants thanked the company, the program, and especially their instructors. This was a very worthwhile and moving portion of every graduation. It sent a strong and effective message to the company—in a way the project staff could not.

These graduations were originally intended to be a means of recognizing success in the program on a small scale. The participants were delighted at the prospect of each upcoming graduation and expanded the ceremony beyond the original intent. Each company provided refreshments, yet the participants brought in great quantities of food and additional refreshments, seemingly eager to share their success in other ways.



OBJECTIVES AND OUTCOMES

Every effort was made during the life of the project to effectively evaluate the program. Project staff collected data on pre- and post-test scores for Level I, and competency mastery for all modules in Level I and II. Data was also collected by instructors and compiled by the Project Director regarding assessments, registrations, enrollments, and completions in order to determine whether or not the project met its goals and objectives.

"Enrollments by Course and Company" (p.31-32) charts a listing of worker enrollments in each class offered at all participating companies. Of the total enrollments, 52% were in Level I classes, and 48% were in Level II modules.

"Worker Enrollments By Company" (p. 33) indicates the number of individuals who were assessed and who enrolled in classes at each site. Percentage of employees enrolled is shown in the data chart.

The graph on page 34, "Identified Need and Actual Enrollments," demonstrates the number of individuals whose assessment scores showed a need for instruction and who actually enrolled in classes.

Since **Skills Today for Tomorrow** was a multi-level program with four distinct classes available to participants, some workers enrolled in more than one class. The "Program Participation" graph on page 35 compares the number of individuals with the total number of enrollments in the program.

Page 36 graphs the total number (31) of Level I and Level II classes held at each site.

Site Abbreviations:

ADD	Advantage Book Binding
AGS	Automated Graphic Services
CT	Catterton Printing
DW	Dick Wildes Printing
GP	Garamond-Pridemark Press
LM	Landmark Printing
McG	McGregor Printing
OLES	Oles Envelope Corporation
OTS	O. T. Smith Company
YGS	York Graphic Services



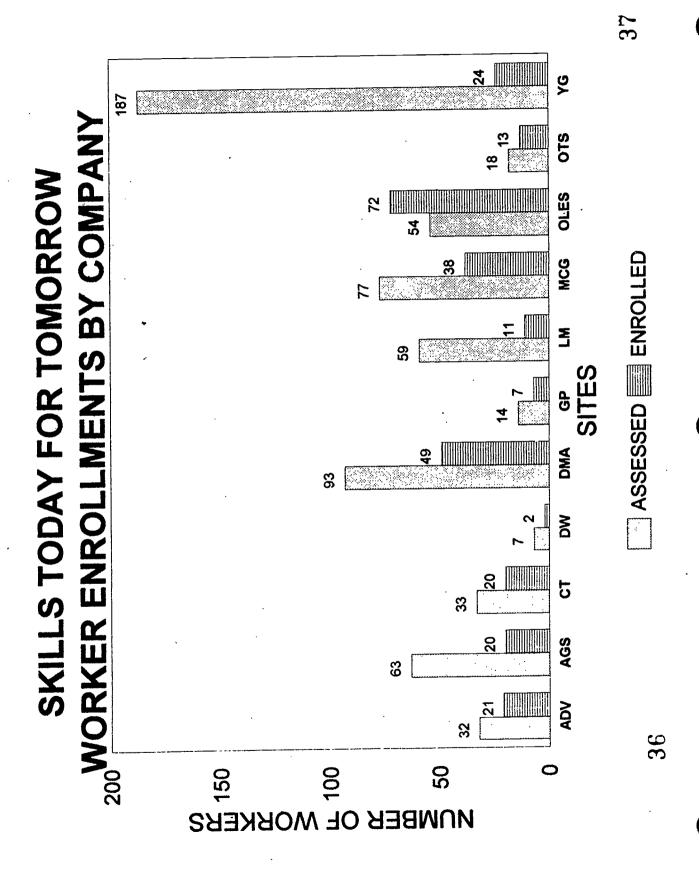
ENROLLMENTS BY COURSE AND COMPANY MAY 1993 - APRIL 1995

01.40	,,,,	ADD	AG	DMA	СТ	DW	GP	LM	MCG	OLE	отѕ	YG	то
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	JC	••	7								·		7
	JC				5_							-	5
	MG						7						7
	MW								18				18
	JF									28			28
	LAM										7		7
	LJ			14									14
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TOTAL I	LEVEL I EI	NROLLMEN	ITS		· · · · · · · · · · · · · · · · · · ·				,			<u> </u>	13
WPL 002	JC		5										5
TOTAL LEVEL I CONTINUATION ENROLLMENTS												5	
WPL 004	LJ									12	·		12
	cs									7			7
	RR											5	5
	LM										6		6
•	MW							6					6
TOTAL	LEVEL II N	MATH ENR	OLLMENT	s									36
CLAS S	INS	ADD	AG	DMA	ст	DW	GP	LM	MCG	OLE S	отѕ	YG	T T
WPL 007	BD		В										8
	DD	9											9
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	MJW							5	9				1
	JF			1.						8			8
_	GM/ TD											7	7
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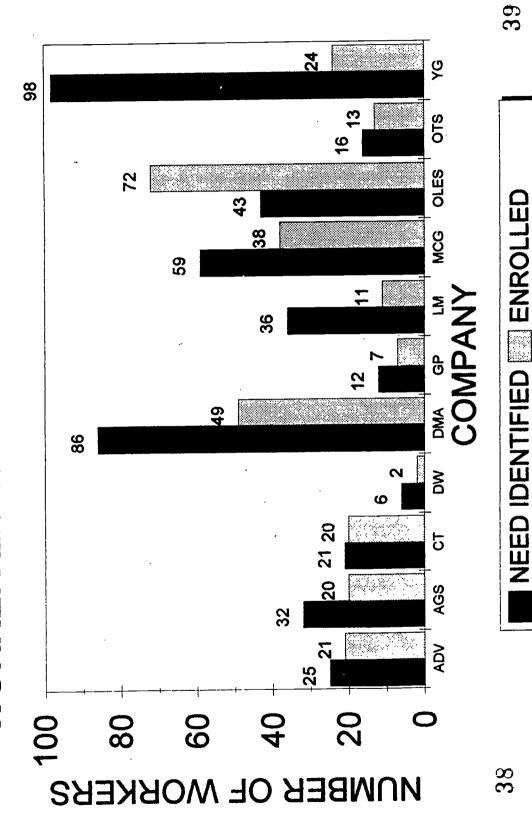
WPL 008	MJW							11				11
	cs								17			17
	VZ							_			7	7
	TD										5	5
TOTAL	TOTAL LEVEL II COMMUNICATIONS ENROLLMENTS											40
	TOTAL LEVEL II ENROLLMENTS										131	
	TOTAL ENROLLMENTS											271

ERIC Full Text Provided by ERIC



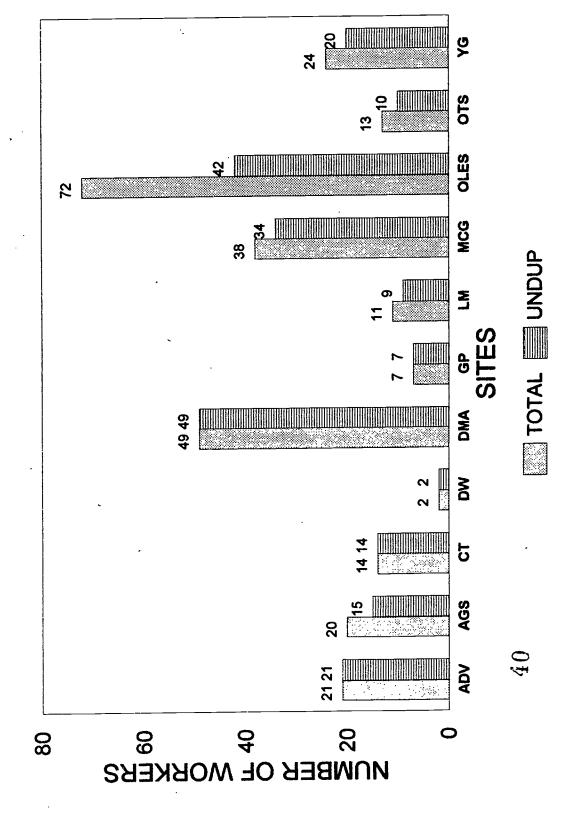


SKILLS TODAY FOR TOMORROW **WORKER ENROLLMENTS BY NEED**



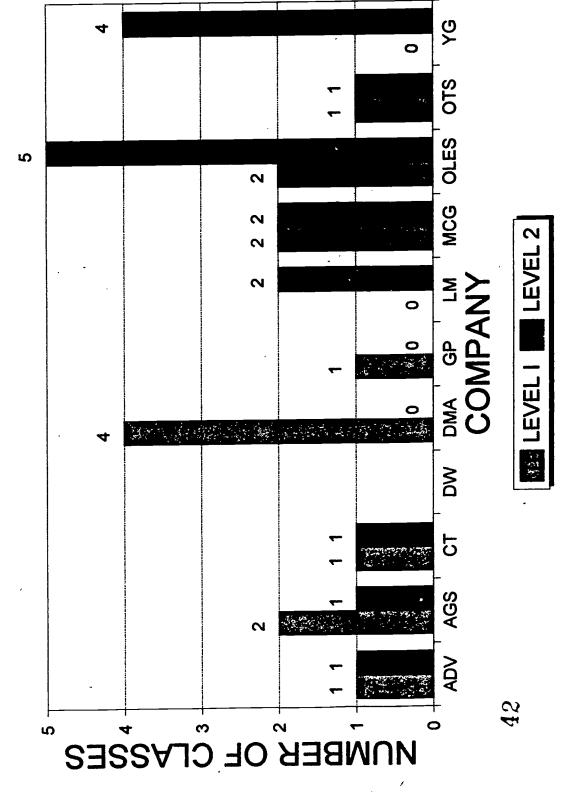


TOTAL/UNDUPLICATED ENROLLMENT SKILLS TODAY FOR TOMORROW





SKILLS TODAY FOR TOMORROW CLASSES OFFERED



43



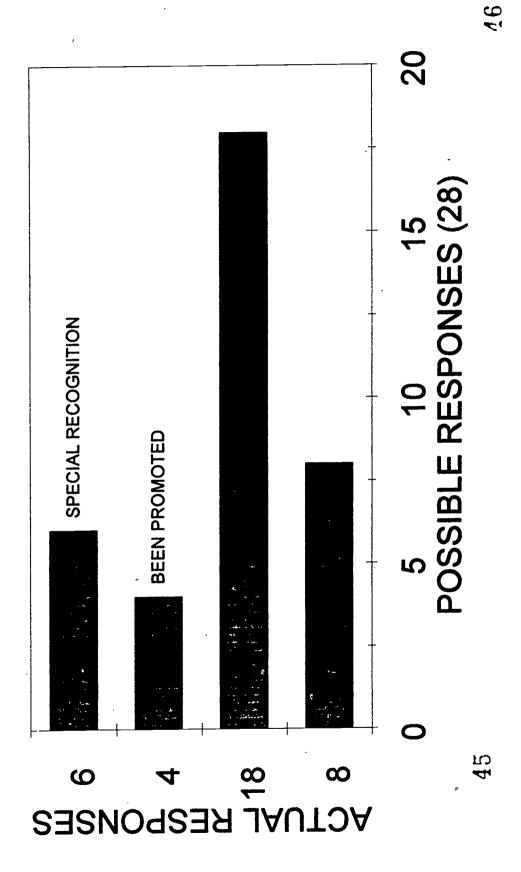
COURSE FOLLOW-UP

Skills Today for Tomorrow was interested in data regarding participant perceptions of their abilities after completion of one or more classes in the program. Therefore, several months after the end of classes, a "Course Follow-Up Inventory" was sent to every worker who had participated in on or more module in Skills Today for Tomorrow. (See Exhibit J) These surveys measured the participant's own evaluation of their ability to communicate, read, write, and speak, their ability to work with numbers, and any particular advancements or successes they have experienced as a result of the project.

Pages 38-40 chart the qualitative changes workers reported as a result of **Skills Today for Tomorrow** in work-based, education-based, and personal outcomes.

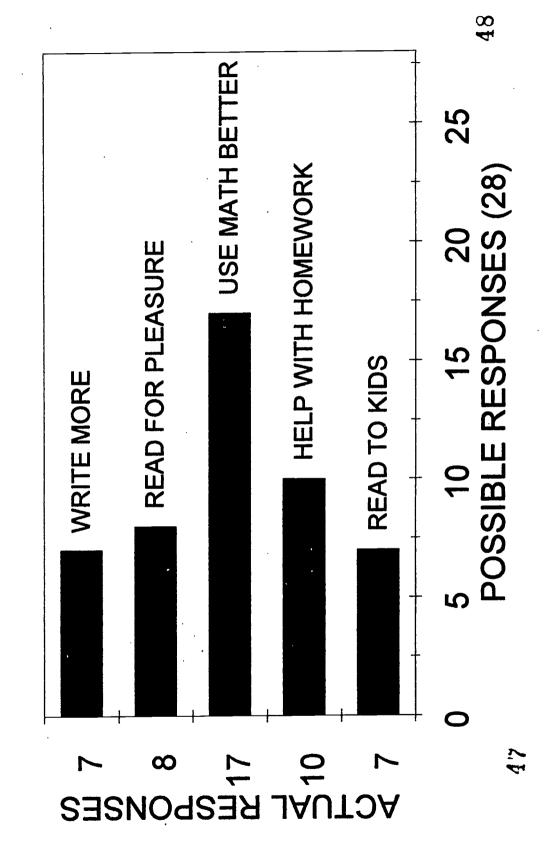


WORK-RELATED OUTCOMES





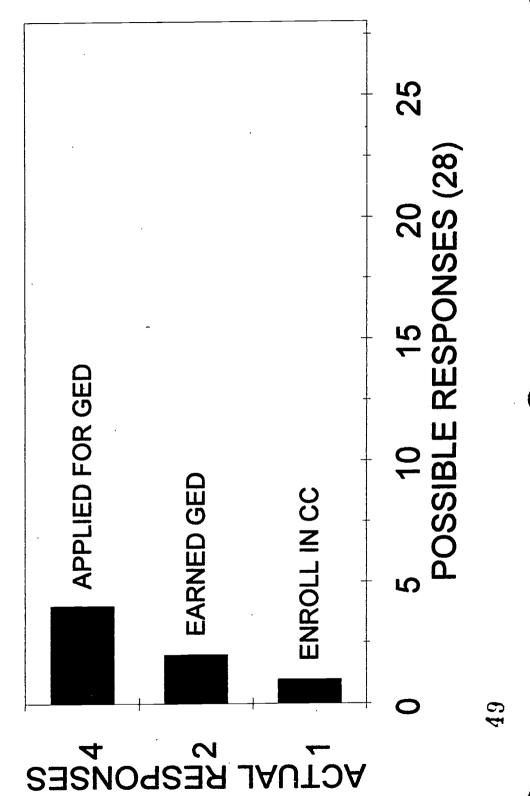
WORKER FOLLOW-UPS PERSONAL OUTCOMES





50

EDUCATION-BASED OUTCOMES WORKER FOLLOW-UPS





EVALUATION

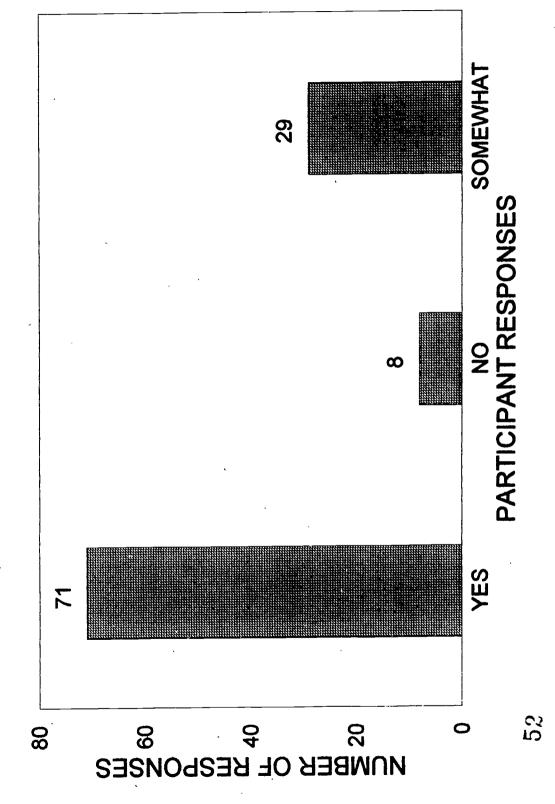
Skills Today for Tomorrow proposed both formative and summative evaluation. R. G. Wasdyke and Associates of Annapolis, Maryland served as the external evaluator. A copy of the external evaluation report is included with this report.

This project made an active attempt to evaluate and adjust the program on an on-going basis. The Project Director made herself a very visible presence in most companies and in most classes. She opened each class, made site visits during each module, and returned for the closing ceremony of each class. In addition, she made numerous unscheduled visits, especially during the early phases of the project. During every visit, she spoke to the entire class and to individuals as well seeking informal feedback about the class, content, instructor, materials, and program organization. This feedback proved very useful in adjustments for future classes.

More formal evaluation measures included a "Course Evaluation" completed by every student during the last class session. **[SEE EXHIBIT K]** In an effort to encourage participants to give honest responses, the instructor was not present while learners completed these evaluations. A quantitative analysis of these evaluations is included in the graphs on pages 42-54. Participant responses clearly indicate satisfaction with the program. Page 55 summarizes some of the worker comments included on the evaluation forms.

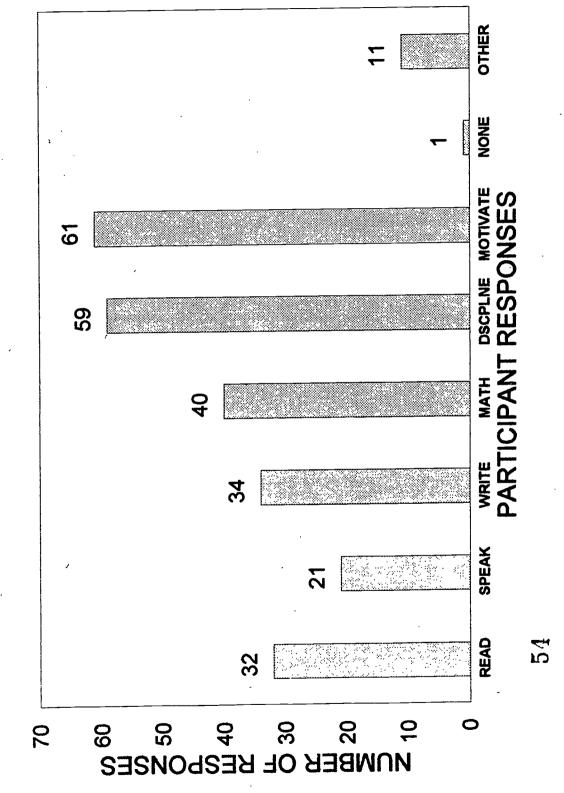


YOU SET WHEN YOU STARTED THIS CLASS? HAVE YOU REACHED THE GOAL(S)



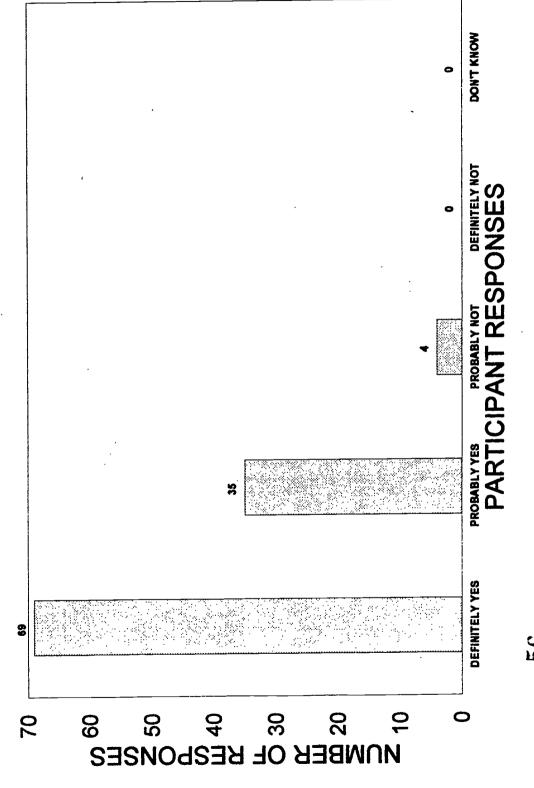


WHAT SKILLS DO YOU THINK THIS CLASS HAS HELPED YOU TO IMPROVE?





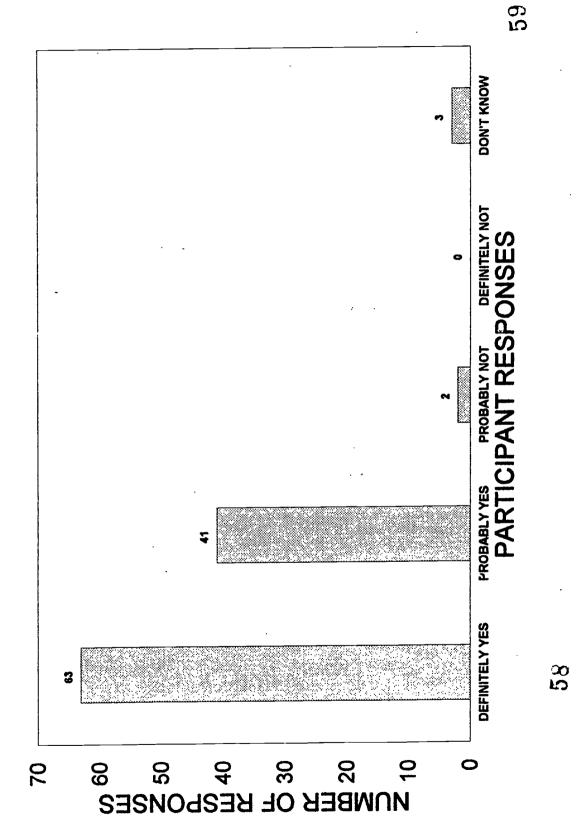
WAS THIS CLASS HELPFUL TO YOU? IN RELATION TO YOUR GOAL(S)





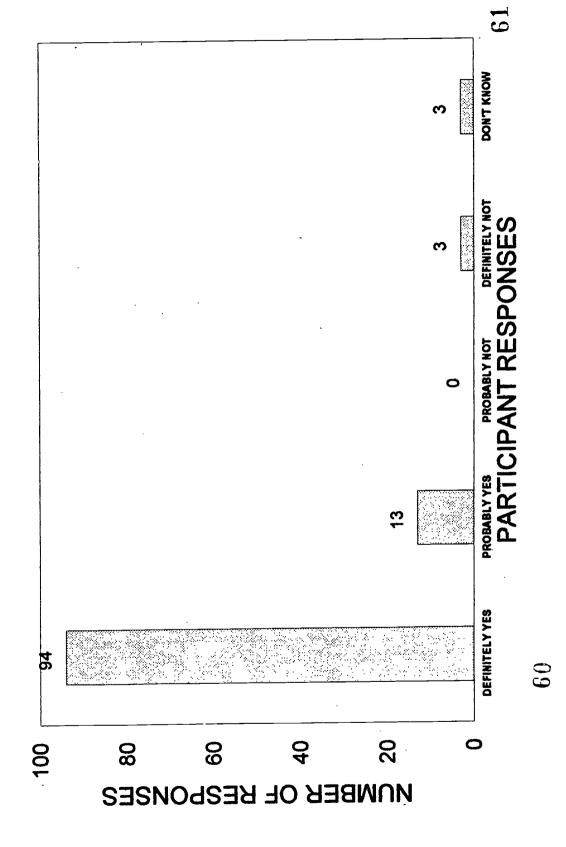


CLASS HELP YOU DO YOUR JOB BETTER? DID THE SKILLS YOU LEARNED IN THIS





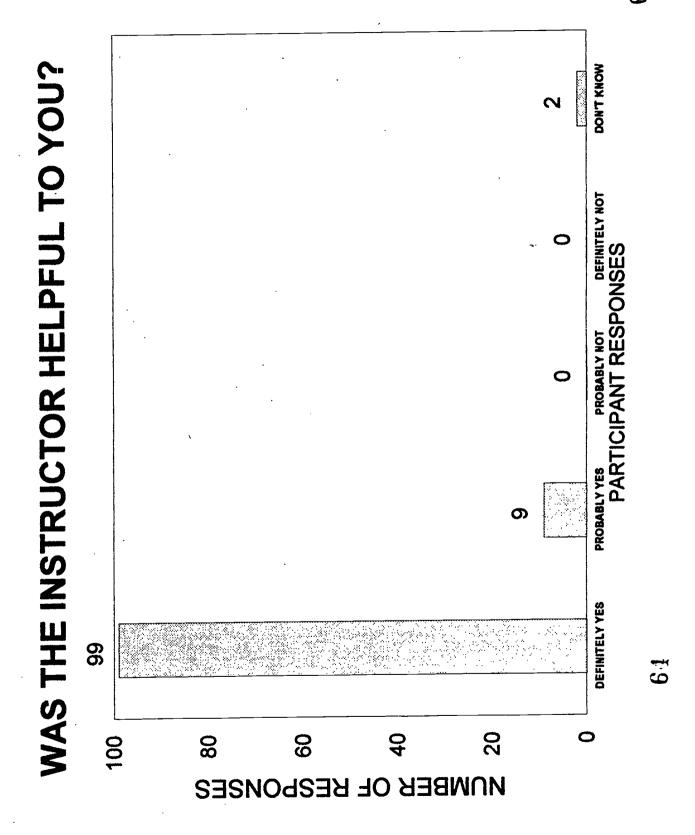
ABOUT THE MATERIAL PRESENTED IN CLASS? WAS THE INSTRUCTOR WELL INFORMED





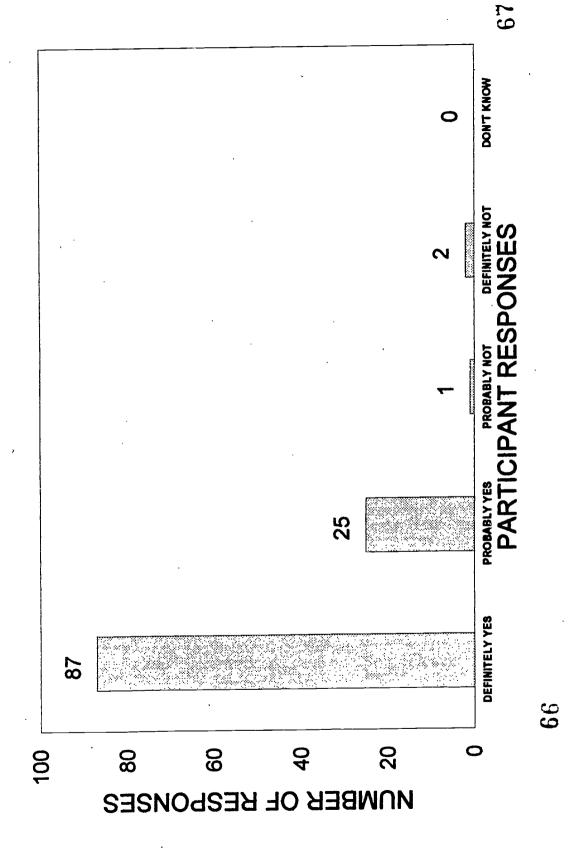
DON'T KNOW WAS THE INSTRUCTOR SENSITIVE PROBABLY YES PROBABLY NOT DEFINITELY NOT PARTICIPANT RESPONSES **TO STUDENTS? DEFINITELY YES NOMBER OF RESPONSES**





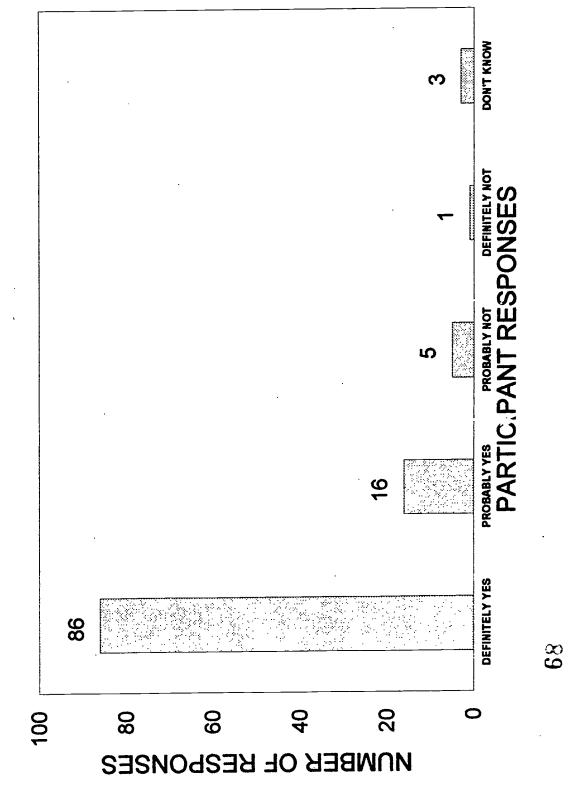


WERE THE METHODS OF TEACHING **HELPFUL TO YOU?**



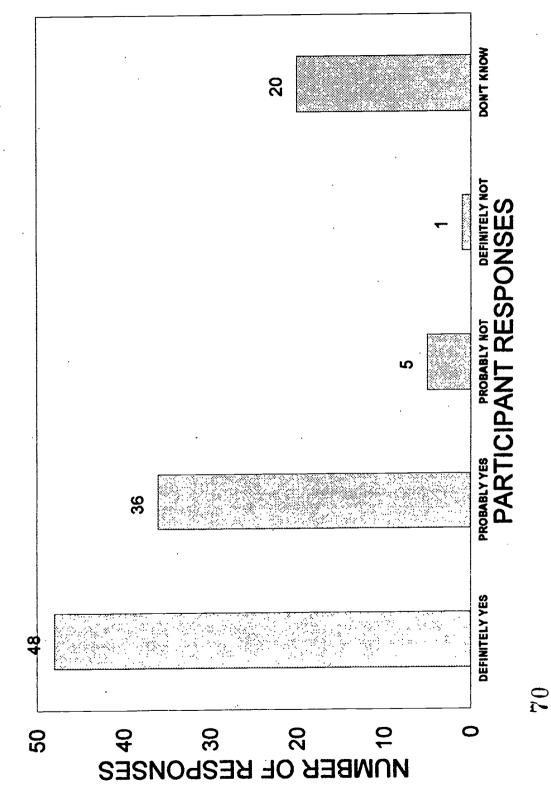


WOULD YOU RECOMMEND THIS CLASS **TO A CO-WORKER?**



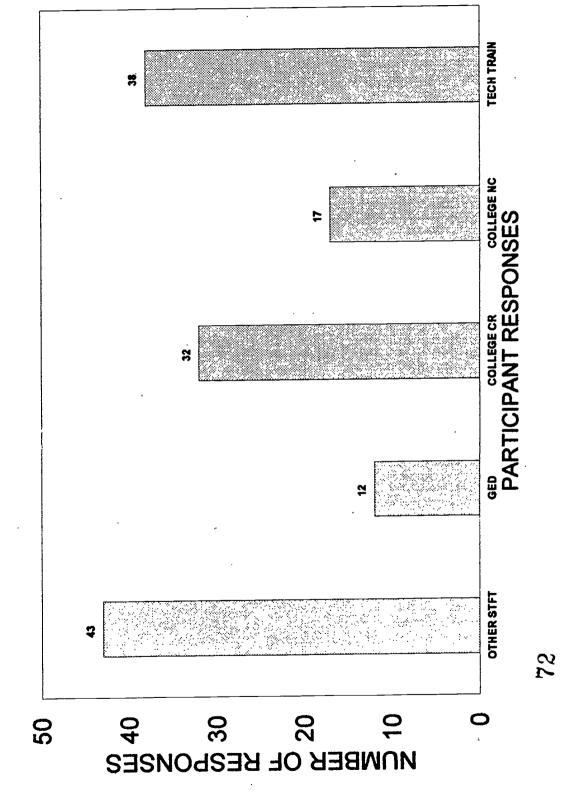


DO YOU INTEND TO TAKE OTHER CLASSES? HAVING TAKEN THIS CLASS,



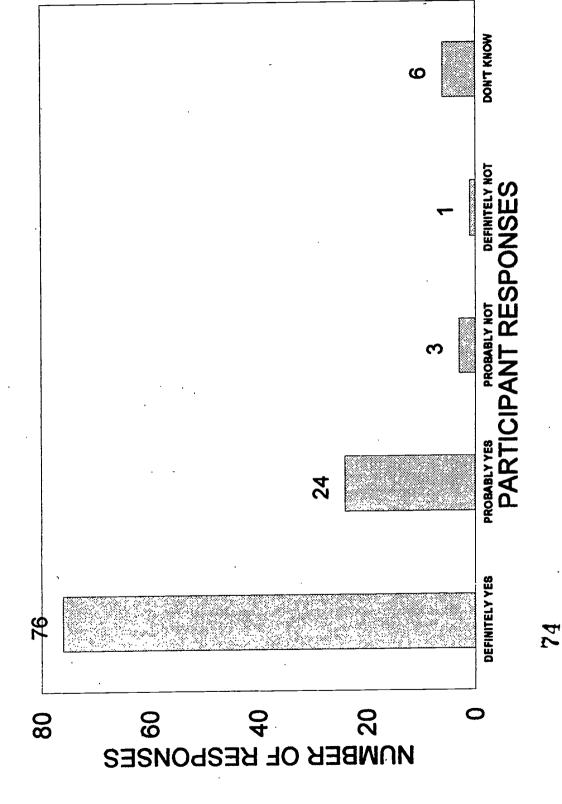


WHAT OTHER TYPE OF CLASSES DO YOU INTEND TO TAKE?



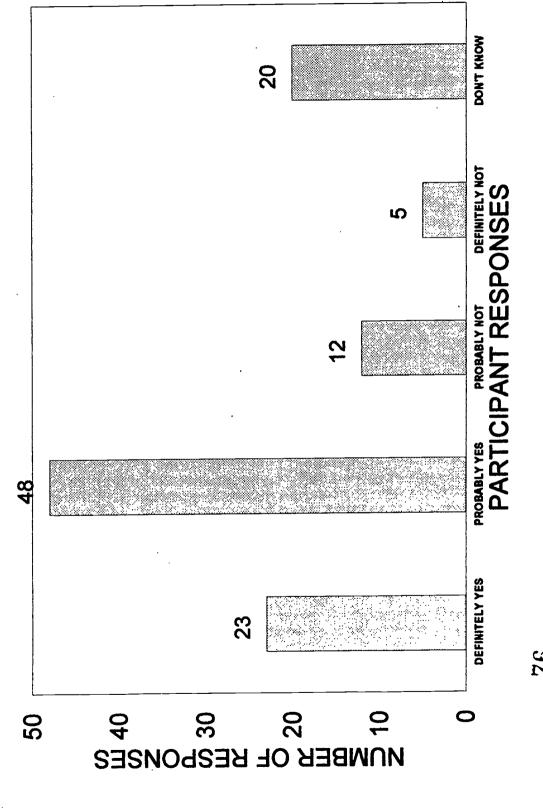


WOULD YOU TAKE ANOTHER ADULT ED. CLASS **AT THIS LOCATION?**





WOULD YOU TAKE ANOTHER ADULT ED. CLASS AT A DIFFERENT LOCATION?







ADDITIONAL PARTICIPANT COMMENTS

"THE CLASSES BENEFITED BY MAKING YOU HAVE THE ABILITY TO UNDERSTAND THE JOB ORDERS BETTER, TO BETTER INTERPRET WHAT'S WRITTEN ON PAPER, SO THAT YOU CAN MORE ACCURATELY FOLLOW THROUGH ON THE FUNCTION THAT'S REQUIRED."

"I WOULD LIKE TO THANK YOU FOR THIS TIME TO LEARN"

"EVERYTHING I LEARNED IN CLASS WAS VALUABLE"

"I REALLY ENJOYED THIS COURSE. IT HELPED MY MATH SKILLS AND A LOT MORE"

"I LOOKED FORWARD TO COMING TO CLASS EACH WEEK"

"I HAD A GOOD TIME IN THIS CLASS. AND IT HAS MADE A DIFFERENCE IN MY LIFE. THANK YOU!"

"FOR THE FIRST TIME IN MY LIFE, I HAVE COMPLETED SOMETHING. I AM SO PROUD."

"I WISH I HAD DONE THIS YEARS AGO."

"MY SON IS GETTING HIS PH.D AND HE IS SO PROUD OF ME FOR DOING THIS. WE ARE BOTH IN SCHOOL AT THE SAME TIME."

"IF THIS HAD NOT BEEN HERE AT MY COMPANY, I WOULD NEVER HAVE DONE THIS. IT WAS SO CONVENIENT."

"IF ALL OF MY TEACHERS HAD BEEN AS NICE AND AS PATIENT AS MR. REANEY, I WOULD HAVE LEARNED THIS IN SCHOOL A LONG TIME AGO."

"I WOULD LIKE TO THANK MY COMPANY, CATONSVILLE COMMUNITY COLLEGE, MR. JONES, AND THE FEDERAL GOVERNMENT FOR GIVING ME THIS OPPORTUNITY."

"I NEVER THOUGHT MATH COULD BE SO MUCH FUN."



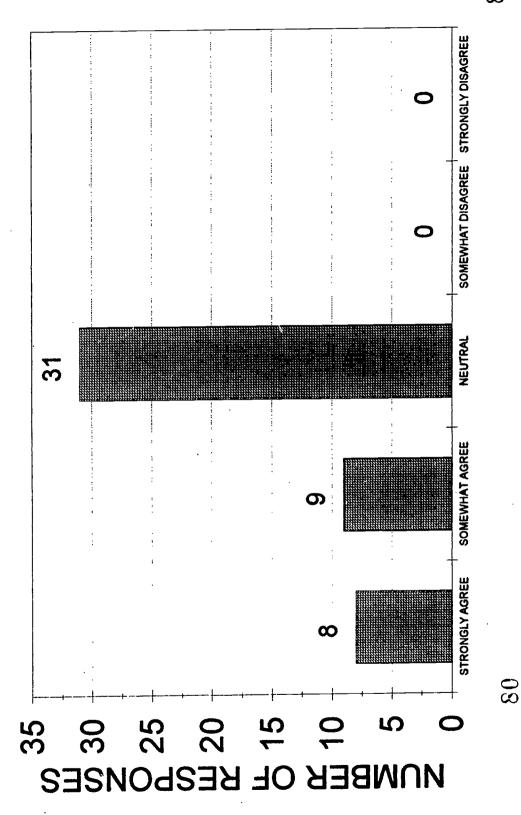
Another of the evaluation goals of **Skills Today for Tomorrow** was to measure as objectively as possible work-based outcomes of the program. Unfortunately, the participating companies did not have individual productivity measures in place. Therefore, CCC conducted a supervisor survey for all participants. **[SEE EXHIBIT L]** Surveys with participant names were sent to each supervisor at every site. The supervisors rated their workers in the areas of:

productivity attendance safety self-esteem communications

The return rate of these surveys was 28%. Graphs of the results follow on pages 57-61. Some of the highlights of the supervisor comments included on these reports can be found on page 62.

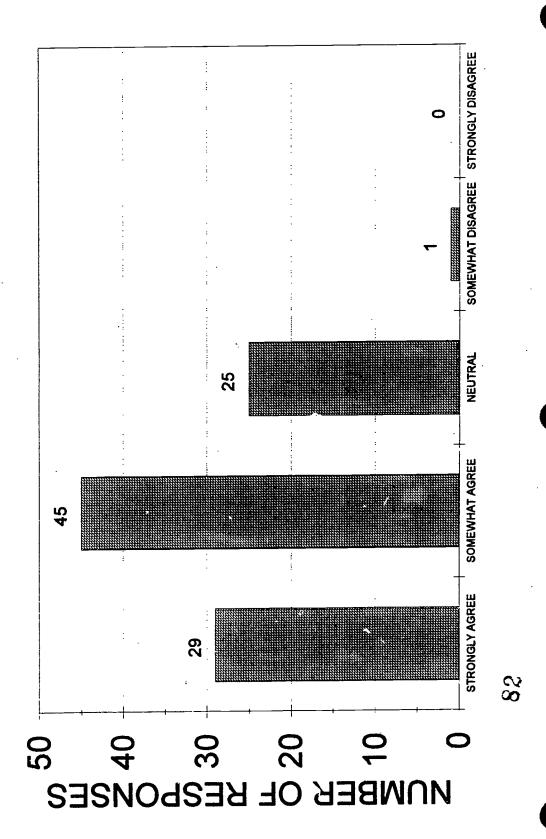


SUPERVISOR SURVEY WORKER SAFETY IMPROVED



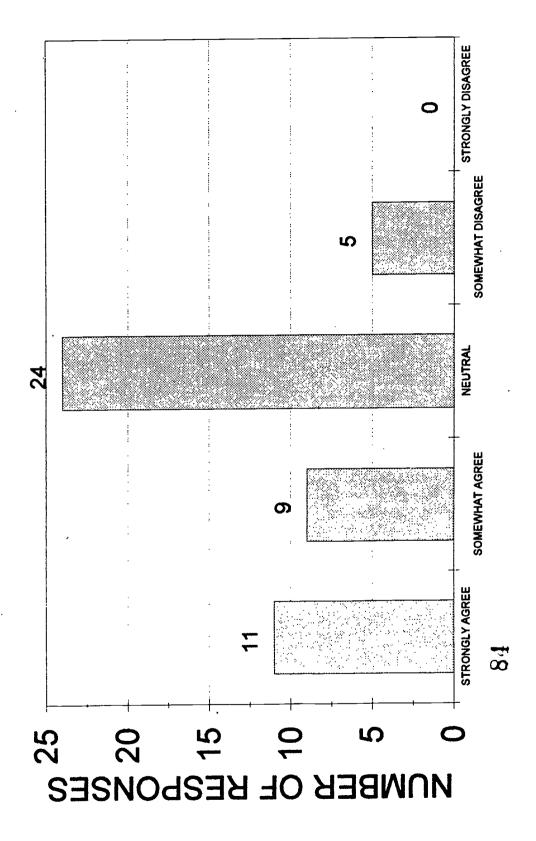


ABILITY TO COMMUNICATE EFFECTIVELY **SUPERVISOR SURVEY**



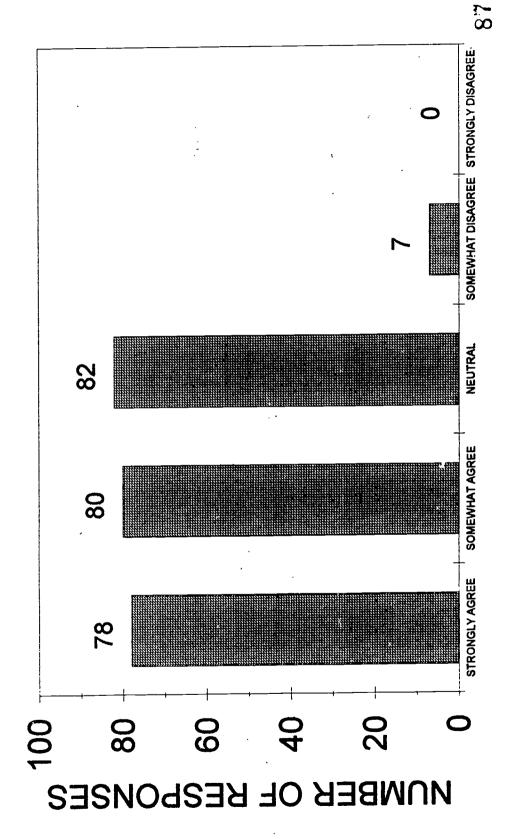


SUPERVISOR SURVEY IMPROVED ATTENDANCE





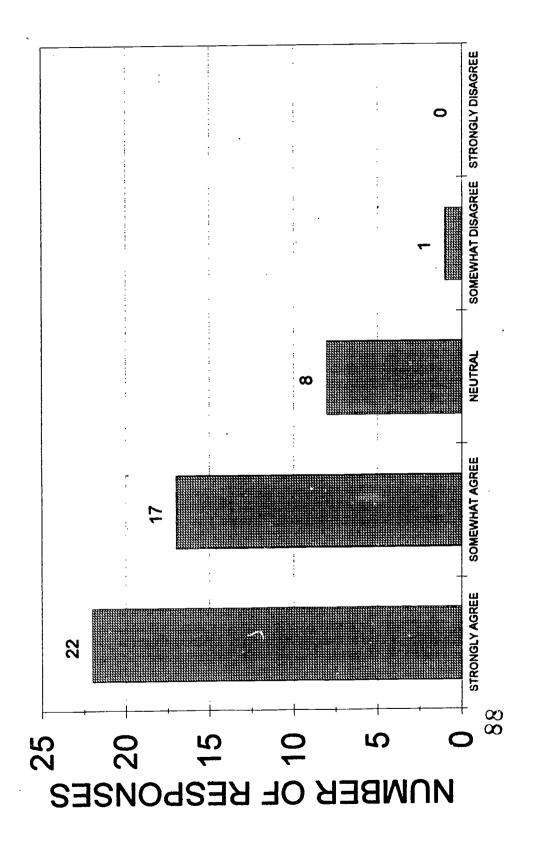
WORKER PRODUCTIVITY INCREASED **SUPERVISOR SURVEY**





98

INCREASE WORKER SELF-ESTEEM **SUPERVISOR SURVEY**





SUPERVISOR SURVEY - COMMENT HIGHLIGHTS

R. has been promoted to folding department shift leader since he completed the course. D. was promoted to Adjuster Trainee after the course. B. is now a supervisor! He is doing a great job! B. never thought she'd have the chance to take any classes; really feels this helped her personal life as well. Because of T's improved skills, he has recently been promoted to a supervisor position. Since taking this course, J. has gone on to take and complete a course at a community college in business, and has been promoted to supervisor. Since taking this course, S. has improved her communication efforts with other employees to the extent that she has become a Senior Technician to answer questions for other employees. C. had no communication confidence. He even wanted to drop the course. But the instructor worked with him to overcome his fears and he is much better off as a result. R. has been promoted into a cost estimating job since taking the classes. After attending these classes, I've seen several differences in the employees. The biggest difference is their attitude. They seem to come down here with a great attitude after they have been up there. They seem to get a kick out of this. It is truly one that enables the employee to better himself, absolutely and truly. And in my way of thinking, if the employee betters themselves, the better the company and for a real partnership.



It is a win-win situation for all of us. We are getting a better group of employees

who can better understand work orders and instructions, and therefore improve our productivity and quality.

..... The self-esteem of those employees who participated just rose tremendously.

.... Our employees are doing their own math, they are helping each other with their math, and it's an opportunity for them to mix with everyone else and really share information.



NATIONAL WORKPLACE LITERACY PROGRAM

DISSEMINATION

Dissemination, though not originally expected to be a primary outcome of this project, indeed took on a major role. Both the education community and the graphic arts industry displayed great interest in the project. Interestingly, greater interest was in "how to" rather than "what happened."

Both of the national printing trade associations were very interested in the project. The National Association of Printers and Lithographers (NAPL) was interested in the project since *Skills Today for Tomorrow* used their WorkPLACE^R curriculum for part of the instruction. The project was frequently mentioned in their publicity regarding WorkPLACE^R. Printing Industries of America (PIA) is the parent organization of PIM, one of the partners in the project. PIA is beginning to initiate workplace literacy programs for its members.

As a result of the dissemination efforts of this project, the Project Director received numerous telephone consulting requests from printing companies in other parts of the country seeking assistance in establishing work-based education programs in their firms. Printing companies in California, Ohio, Colorado, Massachusetts, Washington, D.C., Virginia, Illinois, Florida, and Pennsylvania, among others, sought assistance from **Skills Today for Tomorrow**.

The Project Director presented the following workshops, seminars, and discussions regarding **Skills Today for Tomorrow** during the life of the project:

National Council of Community Services and Continuing Education, Annual Conference, Baltimore, Maryland, October 1993.

American Association of Adult and Continuing Education Annual Conference, Dallas, Texas, November 1993.

International Reading Association North American Conference on Adult and Adolescent Literacy, Washington, DC, February 1994.

Delaware Association for Adult and Continuing Education Annual Conference, Dewey Beach, Delaware, March 1994

Network Consortium for Two Year Colleges in Workforce Development Annual Conference, Baltimore, Maryland, April 1994.



NATIONAL WORKPLACE LITERACY PROGRAM

Maryland Association for Adult, Community, and Continuing Education Annual Conference, Annapolis, Maryland, April 1994.

National Council for Community Services and Continuing Education Annual Conference, Ann Arbor, Michigan, October 1994.

League for Innovation in Community Colleges Workforce Development Conference, San Diego, California, February, 1995

Delaware Association for Adult and Continuing Education, Annual Conference, Dewey Beach, Delaware, March 1995.

Network Consortium for Two-Year Colleges Annual Workforce Development Conference, Nashville, Tennessee, April 1995.

The final report and copies of the curriculum will be on file with the U.S. Department of Education in Washington, D.C. and at the Curriculum Coordination Center in Springfield, IL.



SITE SUMMARY - AUTOMATED GRAPHICS SYSTEMS

LOCATION

Automated Graphic Systems

188 DeMarr Road

White Plains, Maryland 20695

SITE COORDINATOR

Mr. Larry Schindel

Director of Human Resources

CLASSES HELD

Level I: 2 sections

Level II:

Critical Thinking/Problem Solving - 1

section

INSTRUCTORS

Jim Cecil

Barbara Allen

EMPLOYEE ASSESSMENTS

EMPLOYEE ENROLLMENTS

15

63



SITE SUMMARY - MCGREGOR PRINTING CORPORATION

LOCATION McGregor Printing Corporation

1241 New Windsor Road

Westminster, Maryland 21158

SITE COORDINATOR Mr. Gene Plowman

Ms. Patricia Stonesifer

CLASSES HELD Level I: 2 sections

Level II: Workplace Communications - 1 section

Critical Thinking/Problem Solving - 1

section

INSTRUCTORS Mary Jo Winter

EMPLOYEE ASSESSMENTS 77

EMPLOYEE ENROLLMENTS 34



SITE SUMMARY - ADVANTAGE BOOKBINDING COMPANY

LOCATION

Advantage Bookbinding Company

85 Dover Road

Glen Burnie, Maryland 21060

SITE COORDINATOR

Ms. Christine Webbert

Mr. Bob Goad

CLASSES HELD

Level I: I section

Level II: Critical Thinking/Problem Solving -

I section

INSTRUCTORS

Daryl Reaney Donna Dzuiban

EMPLOYEE ASSESSMENTS

32

EMPLOYEE ENROLLMENTS

21



SITE SUMMARY - CATTERTON PRINTING

LOCATION Catterton Printing

24 Industrial Park Drive Waldorf, Maryland 20602

SITE COORDINATOR Mr. David Thornbury

CLASSES HELD Level I: 1 section

Level II: Critical Thinking/Problem Solving-

1 section

INSTRUCTORS Jim Cecil

Barbara Allen

EMPLOYEE ASSESSMENTS 33

EMPLOYEE ENROLLMENTS 20



SITE SUMMARY - DICK WILDES PRINTING COMPANY

LOCATION

Dick Wildes Printing Company

No. I Calvert Street

La Plata, Maryland 20646

SITE COORDINATOR

Mary Ann Scott

CLASSES HELD

Participants from this company attended classes at

Automated Graphics Services

EMPLOYEE ASSESSMENTS 7

EMPLOYEE ENROLLMENTS 2



SITE SUMMARY - GARAMOND/PRIDEMARK PRESS, INC.

LOCATION

Garamond/Pridemark Press Inc.

2717 Wilmarco Avenue

Baltimore, Maryland 21223

SITE COORDINATOR

Mr. Brad Altman

Mr. Ralph Olson*

CLASSES HELD

Level I: 1 section

INSTRUCTORS

Mary Gainer

EMPLOYEE ASSESSMENTS

EMPLOYEE ENROLLMENTS

*Replacement



SITE SUMMARY - OLES ENVELOPE CORPORATION

LOCATION

Oles Envelope Corporation

532 East 25th Street

Baltimore, Maryland 21218

SITE COORDINATOR

Ms. Rosalind Grossman

Ms. Vicki Young*

CLASSES HELD

Level I:

2 sections

Level II:

Workplace Communications - 2 section

Critical Thinking/Problem Solving - 1

section

Workplace Math - 2 sections

INSTRUCTORS

Joan Feeney
Connie Smith

LeRoy Jones

EMPLOYEE ASSESSMENTS

54

EMPLOYEE ENROLLMENTS



SITE SUMMARY - OSCAR T. SMITH COMPANY

LOCATION

Oscar T. Smith Company

P. O. Box 13027

Baltimore, Maryland 21203

SITE COORDINATOR

Mr. Jerry Wilson

Vice President

CLASSES HELD

Level I:

1 section

Level II:

Workplace Math - 1 section

INSTRUCTORS

Linda A. Metz

EMPLOYEE ASSESSMENTS

18

EMPLOYEE ENROLLMENTS



SITE SUMMARY - YORK GRAPHIC SERVICES

LOCATION

York Graphic Services 3600 W. Market Street

York, Pennsylvania 17404

SITE COORDINATOR

Ms. Sharon Mitzel

Director of Human Potential

CLASSES HELD

Level I:

1 section

Level II:

Workplace Communications - 2 section

Critical Thinking/Problem Solving - 1

section

Workplace Math - 1 section

INSTRUCTORS

Ruth Rothingshofer

George Mierisch Tom Diffenbach Victor Zolenski

EMPLOYEE ASSESSMENTS

187

EMPLOYEE ENROLLMENTS



SITE SUMMARY - DIRECT MARKETING ASSOCIATES

LOCATION Direct Marketing Associates

4545 Annapolis Road

Baltimore, Maryland 21227

SITE COORDINATOR Mr. Jim Bannon

Director of Human Resources

CLASSES HELD Level 1: 4 sections

INSTRUCTORS Daryl Reaney

Leroy Jones

EMPLOYEE ASSESSMENTS 93

EMPLOYEE ENROLLMENTS 49

Classes will be continuing at DMA after the grant funding has ended.



SITE SUMMARY - LANDMARK COMMUNITY NEWSPAPERS OF MARYLAND, INC.

LOCATION

Landmark Community Newspapers of Md., Inc.

P. O. Box 346

Westminster, MD 21157

SITE COORDINATOR

Ms. Paige Molder

CLASSES HELD

Level II: On the Job Math - I section

Critical Thinking/Problem Solving -

I section

INSTRUCTORS

Mary Jo Winter

EMPLOYEE ASSESSMENTS

59

EMPLOYEE ENROLLMENT



RECOMMENDATIONS

- The premise of this project was to train other community college staff to implement 1. their own workplace literacy programs. This proved to be a very difficult process. One of the primary reasons for this was due to lack of strong commitment at the partner colleges. All of them had originally committed to the project in June 1992. By the time the project was funded and implemented in May 1993, the contact person (and individual charged with the responsibility for the project) had changed at two of the three colleges. This forced us to begin again getting the college's buy-While we did get commitment from each of the partner colleges, the responsibilities were assigned to an already overloaded coordinator or director in the business and industry unit at each college. Since the impact of the program for those colleges was in terms of learning "how to" and in industry contacts, this project was not given the top priority for these coordinators. In the future, I would recommend a project like this be managed by one college and sub-contracted to the others, rather than a configuration like we used. Contractual obligations and income would enhance the commitment of the other colleges.
- 2. Small businesses continue to be challenging in projects such as this one. Companies with 20-50 employees simply cannot release sufficient numbers of employees to attend classes at one time. Perhaps the use of centralized learning centers where a number of companies can send their workers will help with this problem. However, in most of the printing companies we worked with, workers stated they would not attend classes if they were not offered at their worksites. Increased use of distance learning technologies might also be an effective solution.
- 3. Assessment continues to be a problem as well. Our efforts at developing a customized assessment took a great deal of time and yet did not yield an instrument that solves the problems of commercially produced standardized assessment instruments.
- 4. Greater consistency in reporting requirements and direction from the Department of Education would make it easier for projects to report results.



- It is critical to remain in constant contact with other project directors of both current and prior-funded projects. This is probably the most valuable resource available to a project director. Most project directors are willing to consult with others trying to reach the same goals. In addition, there is a wealth of documents, forms, surveys, applications, and the like already developed. Struggling to re-invent the wheel is not an effective use of time.
- 6. It is essential to remove the "L Word" and its negative connotations from the program immediately. After the initial meetings with the Management Council, the word literacy was no longer used. The negative stigma attached to a literacy program is a deterrent not only to potential program participants, but employers are sometimes reluctant to admit there may be a literacy problem in their firms. The Council named this project **Skills Today for Tomorrow** to emphasize the need for training to meet future workplace demands. All references to the program were either "workplace skills enhancement" or "work-based education."
- 7. Be aware of "peak times" and "down times" of each partner in the project and plan accordingly. It is a good idea to build in one or two skip dates when scheduling classes. This allows flexibility if a rush job comes in, the bloodmobile is using the classroom one day, or a plant meeting forces you to cancel classes.
- 8. Put all reporting requirements, surveys, and other site administration tasks in writing prior to the start of working with companies. We discussed with and each company site coordinator agreed to complete all necessary paperwork. However, it has been very difficult and very time consuming to collect this data from the companies. Some have simply ignored our requests, despite repeated attempts to collect data.



EXHIBIT A

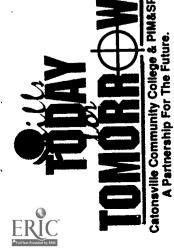




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Catonsville Community College & PIM&SP A Partnership For The Future.

Laura E. Weidner, Project Director Catonsville Community College (410) 455-4501



1. OVERVIEW

18 month, \$385,000 U.S. Department of Education grant.

Addresses the industry need for skilled labor.

Designed to improve workers' basic skills.

Incorporates two levels of instruction.

Instruction individualized to meet worker and company needs.

Instruction generally takes place on-site.

Curriculum is printing industry-specific.

V—



2. PROCESS

A Partnership For The Future.

INITIAL MEETINGS BETWEEN

CCC & PRINTING COMPANIES

PROMOTIONAL CAMPAIGN W/IN EACH COMPANY

CCC CONDUCTS
PRELIMINARY ASSESSMENT

ASSESSMENT RESULTS
ANALYZED, REPORTED TO
NDIVIDUALS, PARTICIPANTS

DESIGNATED FOR LEVEL 1

OR II INSTRUCTION

SCHEDULED, EMPLOYEES
SIGN-UP TO BEGIN
INDIVIDUALIZED
INSTRUCTION

LEVEL 1 CLASSES

AS PARTICIPANT MEETS
LEVEL I COMPETENCIES,
MOVES TO NEXT AVAILABLE
MODULE IN LEVEL II

LEVEL II CLASSES SCHEDULED, EMPLOYEES SIGN-UP TO BEGIN MODULE INSTRUCTION

A Partnership For The Future.

3. CURRICULUM

EVEL I CURRICULUM L

- Includes further diagnostic assessment of participants
- Instructional team will conduct basic skills task analysis of jobs
- Instructional team will develop job-specific teaching materials
- Integrated curriculum of reading, writing, and math
- Some commercially published materials may be used to supplement curriculum

LEVEL II CURRICULUM

- Three components:
- / On-The Jub Math: apply math concepts including ratio, estimation, and measurement to printing industry situations
- Critical Thinking & Problem Solving: Learn systematic problem solving applicable to actual job situations
- / Workplace Communications: Practice effective verbal & non-verbal techniques; also listening, reading, and writing skills on-the-job.





4. COMPANY BENEFITS

Maximized training dollars at minimum employer cost.

Reduced spoilage due to improved worker ability to perform tasks. Improved worker attendance, attitude, & performance.

Improved overall technical readiness of firm.

Positive image of concerned management committed to employees and their future.

Positive public image as employee-oriented firm.

Basis established for future training programs.

More versatile and trainable work force.

Increased stability in the work force.



BENEFITS WORKER

Improved skills in reading, writing, math, problemsolving, and communications.

Enhanced self-esteem leads to pride in work.

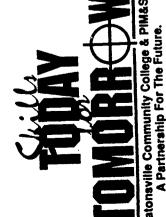
Opportunity to improve promotion possibilities.

Better attendance, attitude, & performance at work.

Improved skills toward personal and job goals.

Increased flexibility in dealing with new technologies. as preparation for Free training in basic skills future education. willingness Greater self-confidence heightens adapt to changing job demands.





EDUCATION PARTNERS

Plan and direct program.

Assist with promotional efforts.

Develop new curricula & customize existing curricula for each site.

Conduct employee recruitment sessions.

Conduct on-site assessments.

Schedule classes and provide instruction in the most appropriate time frame and setting

Maintain necessary record keeping to satisfy grant requirements. Evaluate program success, both formative and summative.



BUSINESS PARTNERS

- Work with education partners to plan program.
- Promote the program within the company.
- Assist project staff in identifying necessary worker competencies
- Provide release time for employee recruitment, assessment, and instruction.
- Support employee involvement by exhibiting positive attitude/approach and by encouraging participation.
- Make the program available to any employee who demonstrates both interest and need.
- Provide facilities and some resources for the assessment and instructional activities.



WORKPLACE SKILLS TRAINING BENEFITS

BENEFITS TO THE COMPANY AS A WHOLE:

- reduced spoilage, due to improved ability to perform tasks
- improved attendance, attitude, and performance of employees
- improves overall technical readiness of the firm
- enables firm to be proactive for future staffing needs
- positive image of concerned management committed to employees
- positive public image as enlightened, employee-oriented firm
- builds basis for future training programs
- builds a more versatile and trainable work force
- increased stability in the work force
- maximize training dollars with minimum cost due to grant

BENEFITS TO THE INDIVIDUAL EMPLOYEE:

- improved skills in reading, writing, math, problem solving
- enhanced self-esteem leads to sense of pride in work
- chance to improve promotion possibilities
- better attendance, attitude, and performance on the job
- improved skills apply to personal goals as well as job goals
- better equipped to deal with technology as it changes
- free training in basic skills as preparation for further education
- more self-confidence heightens willingness to adapt as job demands



TOMORR W

Catonsville Community College & PIM&SP A Partnership For The Future.



Today's labor force does not meet our current needs, and our needs are increasing as technological change accelerates and foreign competition intensifies. Between 20 and 40 million adults today have literacy problems, making it difficult for them to be trained or retrained. One-half of all 18-year olds have failed to master basic language, mathematics, and analytic skills.

Secretary of Labor's Commission on Workforce Quality and Labor Market Efficiency, 1989.

THE SKILLS EMPLOYERS WANT

- Employers want employees who can learn the particular skills of an available job--who have LEARNED HOW TO LEARN.
- Employers want employees who will hear the key points that make up a customer's concerns [LISTENING] and who can convey an adequate response [ORAL COMPUNICATIONS].
- Employers want employees who can think on their feet [PROBLEM SOLVING] and who can come up with innovative solutions when needed [CREATIVE THINKING].
- Employers want employees who have pride in themselves and their potential to be successful [SELF-ESTEEM]; who know how to get things done [GOAL-SETTING/MOTIVATION]; and who have some sense of the skills needed to perform well in the workplace [PERSONAL/CAREER DEVELOPMENT].
- Employers want employees who can get along with customers, suppliers or co-workers [INTERPERSONAL AND NEGOTIATION SKILLS]; who can work with others to achieve a goal [TEAMWORK]; who have some sense of where the organization is headed and what they must do to make a contribution [ORGANIZATIONAL EFFECTIVENESS]; and who can assume responsibility and motivate co-workers when necessary [LEADERSHIP].

Workplace Basics: The Skills Employers Want, U.S.Department of Labor, Employment & Training Administration, 1989.



HUMAN RESOURCE DILEMMAS IN THE PRINTING INDUSTRY

- As an industry, we are replacing craft--which can be learned over a period of years--with technology that requires equally skilled workers but workers who can use tools like statistical quality control and system programming.
- Technology is changing the way we work. The expense of new technologies requires workers to be up and running faster.
- Our present workforce is aging and as a group, the people who will be replacing our retirees are less skilled in the basics.
- The educational institutions traditionally responsible for basic skills instruction don't have the resources required to respond to the need.

Basic Skills in the Workplace:
A Problem in the Graphic Arts,
National Association of
Printers and Lithographers,
1990.



America has no coherent employment and training policy for the majority of its workers. Little training of front-line workers occurs in the private sector. Most workers receive no education or training beyond high school.

America's Choice: High Skills or Low Wages, The Commission on the Skills of the American Workforce, 1990.



EXHIBIT B



WILL YOUR SKILLS BE READY FOR THE 21ST CENTURY?

4 Color Poster for Employee Recruitment TOURY TOMURROW

atonsville Community College's PIMSP
A Partnership For The Future.

BEST COPY AVAILABLE

WHAT WILL IT COST?

Funding is provided by a \$240,500 U.S. Department of Education National Workplace Literacy Grant, through a partnership between Catonsville Community College and Printing Industries of Maryland (PIM).

Your commitment to a competitive workforce involves:

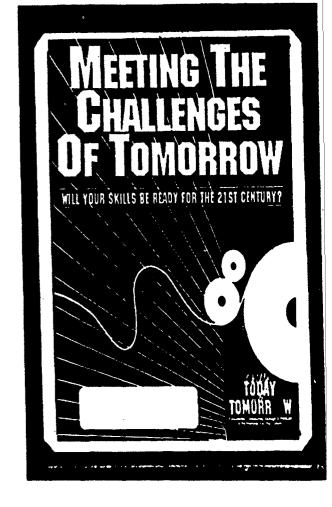
- Support and encourage employee involvement in the program
- · Promote the program within the company
- Provide release-time for employees to be assessed and attend class
- Make the program available to any employee who demonstrates both interest and need
- · Provide employee incentives



for more information contact:

Laura E. Weidner, Project Director Catonsville Community College 110 Painter's Mill Road Owings Mills, Maryland 21117

(301) 363-4111





ERIC H

The Problem:

THE YEAR 2000 IS UPON US.

- A nationwide survey by the National Association of Printers and Lithographers revealed:
- "Over 60% of printing companies surveyed reported negative results due to employee's lack of basic skills, . . ."

gram to:

- "The respondents indicated that a lack of basic skills was evident in 41% of bindery workers, 38% of press workers, 30% of materials handling workers, 28% of prepress workers, and 19% of office personnel."
- "As an industry, we are replacing craft—
 which can be learned over a period of
 years—with technology that requires
 equally skilled workers but workers who
 can use tools like statistical quality control
 and system programming."
- —Linda Stroker, "Basic Skills in the Workplace: A Problem in the Graphic Arts," National Association of Printers and Lithographers (NAPL) Special Report, April 1990.
- "Low level literacy is not really the critical problem. The problem is the inability of workers who already possess very basic skills to apply their skills to job situations and to cope with changing job requirements." —Jorie W. Philippi, *Literacy at Work*, Simon & Schuster Workplace Resources, New York, NY,

134

The Solution: SKILLS TODAY

FOR TOMORROW

Our special instructional team will assess your workforce to determine the need for basic skills training. We will design and implement a pro-

- Train employees in the basic math, communications, reading, writing, and problem solving skills they need to perform critical job tasks
- Teach transferable basic skills to enable your employees to apply their learning to any situation . . . you have employees who know how to learn.
- Customize basic skills training to meet the specific needs of your company by:
- Identifying critical job tasks and problem areas
- Performing basic skills analysis of job tasks
- Assessing basic skills needs of your employees
- Designing instructional program using job materials.

Program is backed by the reputation and integrity of Catonsville Community College.

WHO WILL BENEFIT?

Your Company:

- Reduces spoilage, due to improved ability to perform math, reading, and problem solving skills for critical job tasks.
 - Improves technical readiness of the firm by developing a more versatile and trainable workforce.
- Creates a positive image of concerned management as committed to employees.

Your Employees:

- Develops employees' skills in reading, writing, math, problem solving, critical thinking as they are applied on the job.
- Equips employees to better manage new technology and changes in the workplace.
- Improves self-esteem, self-confidence, and adaptability to new job demands.



MEDICE THE GRANDES OF TOMOBROW

WILL YOUR SKILLS BE READY FOR THE 21ST CENTURY?

You are invited to attend one of the information sessions scheduled on May 7, 1991 at:

5 am - 7 am

1 pm - 3 pm

4 pm - 6 pm

Come and find out what YOU need to meet the challenges of tomorrow.

Call Pat Schlottenmeier at extension 296 and let her know which session you will attend.

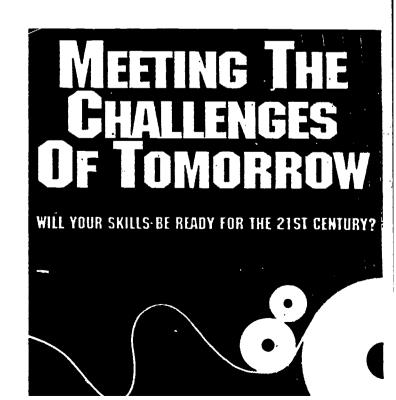




EXHIBIT C



SKILLS TODAY FOR TOMORROW STUDENT PROFILE SHEET CASAS READING - FORM 31 A

STFT READING COMPETENCIES

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SKILLS TODAY FOR TOMORROW STUDENT PROFILE SHEET CASAS READING - FORM 32 A

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SKILLS TODAY FOR TOMORROW STUDENT PROFILE SHEET

CASAS READING - FORM 33 B

STFT READING COMPETENCIES

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SKILLS TODAY FOR TOMORROW STUDENT PROFILE SHEET

CASAS READING - FORM 34 B

STFT READING COMPETENCIES

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SKILLS TODAY FOR TOMORROW STUDENT PROFILE SHEET

CASAS READING - FORM 36 C

STFT READING COMPETENCIES

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SKILLS TODAY FOR TOMORROW STUDENT PROFILE SHEET

CASAS MATH - FORM 31 A

STFT MATH COMPETENCIES

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CASAS ITE	IS	WHOLE			% AGE	CNVER	AVERG	ESTIMT	RATIO	GRAPH	TIME	MEASR	INSTR	METRIC
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DIVIDE	6													
MEASURE	7						11 27 To 42 11 To 10 To 10						<u> </u>	1
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MONEY	9													
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GRAPH	15													
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-DECIMALS	18													
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MAPS	20													1
ENGLISH MEASUR	21													
ENGLISH MEASUR	22													
CHART	23													<u> </u>
CHART	24									×				

PARTICIPANT NAME	DATE ENTERED	
COMPANY	· · · · · · · · · · · · · · · · · · ·	
COMMENTS:		



CASAS MATH - FORM 32 A

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CHARTS	22													
ENGLISH MEASUR	23													
ENGLISH MEASUR	1 2 4													

PARTICIPANT NAME	DATE ENTERED
COMPANY	
COMMENTS:	



CASAS MATH - FORM 33 B

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CASAS ITE	MS	WHOLE	FRACS	DECIM	% AGE	CNVER	AVERG	ESTIMT	RATIO	GRAPH	TIME	MEASR	INSTE	METRIC
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TAX FORM	28												10.100 /	
SUBTRACTION	29													
X FRACTIONS	30													1

PARTICIPANT NAME	DATE ENTERE	D
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COMMENTS:	•	



CASAS MATH - FORM 34 B

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PARTICIPANT NAME	DATE ENTERED
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COMMENTO:	





CASAS MATH - FORM 35 C

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X FRACS/WHOLE	8												Y 11 11	
GRAPH	9													
GRAPH	10													
ADD/SUBTRACT	11													
ADD/SUBTRACT	12													
+ FRACTIONS	13													
X DECIMALS	14													
DECIMAL CHART	15													
ROUNDING	16													
LONG DIVISION	17													
MEASURE	18													
MAP/X FRACTION	19													
MAP	20													
AREA	21													
AREA	22													
PERIMETER	23													
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PARTICIPANT NAME_		DATE ENTERED
COMPANY	ţ	



CASAS MATH - FORM 36 C

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CALC. % AGE	1						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						:: '	
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PERIMETER	15													
-FRACTIONS	16													
AREA	17												(****/ ********************************	
+ FRACTIONS	18													
~ DECI/CON FRAC	19													
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~ DECIMALS	32													
COMPARE DECIMA	33													
CUBIC FEET	34													
CUBIC CONVERT	35													

PARTICIPANT NAME	DATE ENTERED	
COMPANY		



EXHIBIT D



Pre-Course Assessment

Use a calculator to multiply or divide the following:

Please return the calculator to your instructor.

This part of the pre-course assessment should be done by hand without a calculator. (You should use the empty spaces on the page for calculations.)

Add the following:

Subtract the following:

151

Multiply the following:

Divide the following:

Add the following fractions:

13.)
$$\frac{4}{16} + \frac{15}{16} =$$

14.)
$$\frac{18}{32} + \frac{48}{64} =$$



ON-THE-JOB MATH

PRE-ASSESSMENT: PART II

1. Add $3\frac{5}{16}$ + $1\frac{7}{12}$

2. Subtract 3 <u>15</u> 16 - 1 <u>3</u>

Change these fractions to decimals:

5. 9,632 copies of a book are being shipped to 2 destinations; 5,472 copies to one destination and the rest to a second. If each carton will hold 114 books, how many cartons will be needed for each shipment?

6. If 1 inch = 25.4 millimeters, what are the sizes in millimeters of a book that is 8 1/2 inches by 11 inches?

13. How many minutes are there in 4 3/4 hours?

14. What percent of 20 is 12?

15. The bindery packed 44 cartons in the morning and 28 in the afternoon. What percent of the total day's work was packed in the morning?

16. Multiply: 2 3/4 x 2 2/3

17. Divide: 4 2/3 ÷ 3 1/2

Post-Course Assessment

This post-course assessment has been designed to cover all the skills addressed in the WorkPLACETM On-The-Job Math Computations Course. Once your instructor scores the assessments, you will meet individually with him or her to discuss your results. At that meeting, you will also plan future work and educational goals based on your proficiency of the skills attained during this course.

Again, please note that your individual scores will be treated as confidential information.

Unit 1

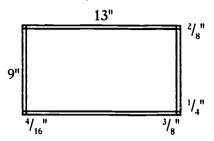
Directions: Answer all of the following questions. Always give your answer to fraction questions in the lowest possible terms.

- 1.) A press operator has worked 4 hours of a 12 hour shift. What fraction of the shift has been worked?
- 2.) A press crew has produced 12,000 pieces of a 16,000 run. What fraction of the run is completed?
- 3.) A graphic that is 15" long and 12" wide has to be reduced so the width is 8". What will the length of the reduced picture be?
- 4.) A 24" by 36" finished size poster is produced on a 26" x 40" press size sheet of paper. The poster image bleeds $\frac{1}{8}$ " past the final trim line on all four sides. The printing image is exactly centered on the sheet. What are the dimensions of the paper to be trimmed off?

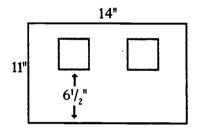


Post-Course Assessment: Unit 1 (Cont'd)

5.) Review the following press sheet layout and determine the finished size of the product.



6.) A customer has furnished the camera ready mechanical illustrated below. The window sizes on the mechanical are $3^{3}/_{32}$ " x $3^{3}/_{32}$ " square. What is the distance from the top trim line to the top of the window?



7.) A small job is to be cut on a guillotine paper cutter. One lift of stock that measures 11 ¹¹/₁₆" in length is to be cut in half. What will the length of the finished stock be?

8.) If a specialty ink is sold in one pound cans for \$12.20 per can, how many cans can be bought for \$61.00?

9.) If a sheetfed press can produce 10,000 signatures per hour at top speed, how many signatures can be produced in 15.5 hours?

2 A

	10.) If one column of text is $3\sqrt[3]{16}$ wide, how wide are three columns?
	11.) If four columns of text are 21 5/8" wide, how wide is each column?
➤ Unit 2	12.) A job begins at 1206 and ends at 0512. How long did it take?
	·
	13.) An estimator is working on a set of specifications for a new job. The job specifications are nearly identical to a project estimated last week, except the run quantity is twice as much. The running time on the previous estimate was 2 hours and 36 minutes.
	About how long should it take to run this job?
	<u></u>
	14.) Time is measured in 6 minute units in many companies in the print industry. How may 6 minute units are there in a 12 hour shift?
	15.) If a job took 14, 6 minute units, how many hours and minutes did it take to complete?



Post-Course Assessment: Unit 2 (Cont'd)

16.) One window is 2 5/16" wide. How wide will four such windows be?

17.) A skid of work is being packed in cartons in the bindery, and it was just trimmed on a 3 knife trimmer. The skid is stacked with 24 lifts in a layer, 16 layers high. Each lift on the skid contains 7 books. The job ticket indicates that the customer ordered 5,000 books, plus or minus the customary 10% to allow for manufacturing waste and spoilage.

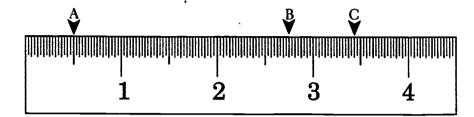
a. How many skids of work are you looking for to complete this job?

b. If all the work for this job is packed identically on two skids, what will the final quantity shipped to the client be?

18.) A regular customer has just finished the process of converting from hand page make-up to electronic page make-up. The first batch of page mechanicals has just been received. The instructions say that the distance between the final trim marks are 20.0 and 26.3 centimeters.

What is the size of the product?

Post-Course Assessment: Unit 2 (Cont'd)



19.) What is the distance between points A and B in the ruler above?

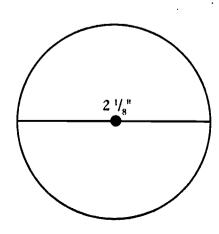
20.) Will a 2" graphic fit between points A and C?

21.) What is the distance between points A and C in the ruler above?

22.) The circle in the diagram below has a diameter of 2 $^{1}/_{8}$ ".

How long is the radius?

What is the circumference?



Post-Course Assessment: Unit 2 (Cont'd)

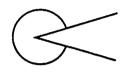
23.) Below are 5 angles, label them acute, reflex, obtuse, or right.



A. _____

В.

C. _____



D.____



E. .

24.) How many degrees are in a right angle?

25.) In the diagrams above, which angle is approximately:

45°: _____ 315°: ____ 120°: ____

Unit 3

For these questions, be sure to estimate your answers.

26.) If the bindery takes 14 minutes to complete 100 perfect bound books, about how long will it take to complete 1,545?

- A. $3^{1}/_{2}$ hours
- B. 3 hours
- C. 2 1/2 hours

Post-Course Assessment: Unit 3 (Cont'd)

- 27.) If a sheetfed press can produce 11,000 impressions an hour, about how long will it take to produce 160,000?
 - A. 17 hours
 - B. 12 1/4 hours
 - C. 14 1/2 hours
- 28.) An apprentice asks a journeyman stripper if two $4^{5/16}$ square windows positioned side by side with an 1/8 in between the windows will fit in a $9^{3/4}$ final trim size product. Will they?
- 29.) A job takes 191 minutes. About how many hours is that?
 - A. 2
 - B. 4
 - C. 3
- 30.) A job uses 129 minutes Monday morning and 184 minutes Monday afternoon. About how many hours will the whole job take?
 - A. 7
 - B. 8
 - C. 5
- 31.) Blankets cost \$70. If ABZ Graphics Communications Company budgeted \$4,800 for blankets, about how many can they buy this year?
 - A. 70.
 - B. 60
 - C. 80



Post-Course Assessment: Unit 3 (Cont'd)

32.) ABZ Graphics Communications Company used 5,432 drums of ink last year.

If the shop operated 322 days of the year, about how many drums were used per day?

- A. 21
- B. 17
- C. 18
- 33.) The pressroom supervisor is starting a new procedure. Every week, press operators must report the total number of impressions on their press—to the nearest hundred. In the chart below are the actual readings on one of the presses. Fill in the numbers the press operators would report.

Date	Total Impressions	Number reported to Supervisor
9/13/90	144,359	
9/20/90	234,235	
9/27/90	498,289	
10/3/90	734,591	

- 34.) A rush job comes in from one of ABZ Graphic Communications Company's biggest clients. The run is 120,000. The fastest press ABZ has can produce 11,000 impressions per hour. How much press time will the job take?
 - A. 11 hours
 - B. 10 hours
 - C. 14 hours
- 35.) Your shift began at 1600. A one half-hour meal break was taken about half way through the eight hour shift. The job you were working on was finished in 5.3 hours. You forgot to punch your time card out when you finished the job. You brought your time card to the foreman to write your time in.

What time did the foreman enter on your time card for meal start and stop time, and what time was the job finished?

Post-Course Assessment: Unit 4 (Cont'd)

41.) All employees gathered together for a Holiday party, bringing one inexpensive gift. When it was time for exchanging, everyone's name was placed in a hat and a blindfolded individual drew names (the names were written on the same size pieces of paper and folded once).

Was the drawing random?

42.) Four cartons of paper are removed from a skid of paper. Each carton is weighed:

38 pounds 40 pounds 42 pounds 36 pounds One carton, from another skid weighs 44 pounds.

What is the variation from the mean of the first four boxes?

You have now completed the Post-Course Assessment. Follow the instructions of your instructor.

Post-Course Assessment: Unit 3 (Cont'd)

36.) A web press uses a full roll of paper about every 18 minutes. The job on press now requires a double web configuration, which means two rolls are running at the same time. The job ticket indicates the job will run for 26.9 hours.

How many rolls of paper will this job take?

11	nit	Δ

37.) Four sample press sheets were found to have the following black density readings:

1.62

1.53

1.63

1.49

What is the range?

38.) The estimating department delivered six bids yesterday:

\$2,010

\$10,400

\$4,330

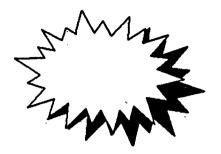
\$8,260

What was the average bid price?

39.) What percentage of 300 is 200?

40.) Convert 103% to a decimal.

CRITICAL THINKING & PROBLEM-SOLVING SELF-ASSESSMENT



TIME & RESOURCES

DIRECTIONS:

CAREFULLY READ ALL CHOICES IN EACH SECTION. CHECK THE RESPONSE THAT BEST DESCRIBES YOU.

WHEN A PROBLEM OCCURS, I USUALLY:

1. A. SPEND MOST OF MY TIME WORRYING ABOUT IT B. TAKE SOME STEPS TO SOLVE IT C. DEVELOP A PLAN TO SOLVE IT RIGHT AWAY 2. A. ACT AT THE LAST MINUTE/RUSH FOR DEADLINES B. SET A SCHEDULE OR TIME TABLE TO SOLVE IT C. BUILD LEAD TIME INTO MY PLANS 3. A. HAVE UNORGANIZED OR INACCESSIBLE RESOURCES B. _BARELY HAVE WHAT I NEED C. HAVE SOME RESOURCES AVAILABLE D. HAVE ORGANIZED RESOURCES WHICH I HAVE DEVELOPED HAVE SOME DUPLICATION OF EFFORT/RESOURCES A. B. _USE RESOURCES FAIRLY WELL USE RESOURCES WISELY C. 5. A. NEED A LOT OF TIME/HAVE TO DO THINGS MORE THAN ONCE B. SAVE TIME BY PLANNING ON THE SPOT C. _HAVE SAVED TIME BY PRIOR PLANNING 6. IF I HAVE SLOW TIME AT WORK, I USUALLY: DO SOMETHING ENJOYABLE A. B. __DO ONLY WHAT IS NECESSARY AT THE MOMENT PLAN/TAKE ACTIONS WHICH WILL HELP ME ON MY JOB

CRITICAL THINKING & PROBLEM-SOLVING ASSESSMENT TIME & RESOURCES

DIRECTION	ONS: CAREFULLY READ ALL CHOICES IN EACH SECTION. CHECK THE RESPONSE THAT <u>BEST</u> DESCRIBES YOU.
7. WHE	N I RECEIVE INFORMATION, I USUALLY:
A.	LOSE IT
В.	ACT ON IT IMMEDIATELY OR FILE FOR FUTURE USE
C.	
8. THE	AMOUNT OF TIME IN A DAY:
A.	IS NEVER ENOUGH
B.	IS ENOUGH TO BARELY GET BY
C.	CAN BE MANAGED WISELY TO ACCOMPLISH GOALS
9. MOS	T OF MY PROBLEMS:
A.	SEEM TO HANG ON FOREVER
В.	ARE RESOLVED AFTER A TIME /
c.	
CHE	CK AS MANY AS APPLY TO YOU:
10. MY	JOB INVOLVES A LOT OF MY TIME BECAUSE IT INVOLVES:
A.	LEARNING
В.	
c.	CHANGE
D.	AUTHORITY I DON'T HAVE
E.	RESOURCES I DON'T HAVE
F.	DELEGATION OF WORK
G.	GUALS THAT MAI NUT BE REALISTIC
H.	OVERSCHEDULING OF MY TIME
I.	HIGH OR RIGOROUS STANDARDS



CRITICAL THINKING & PROBLEM-SOLVING SELF-ASSESSMENT



SAMPLE CASE STUDY WRITING ACTIVITY

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THE	RESUI	LTS O	F MY	PROB	Lem-s	OLVIN	G EFFC	orts w	ERE:				
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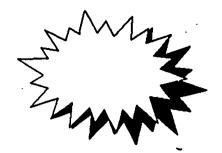


CRITICAL THINKING & PROBLEM-SOLVING SAMPLE CASE STUDY WRITING ACTIVITY

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CRITICAL THINKING & PROBLEM-SOLVING SELF-ASSESSMENT



SATISFACTION

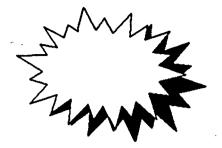
DIR	RECTIONS:	CAREFULLY READ ALL CHOICES IN EACH SECTION. CHECK THE RESPONSE THAT <u>BEST</u> DESCRIBES YOU.							
1.	ON THE WH	OLE, I WOULD RATE MY PROBLEM-SOLVING STRATEGIES AS:							
		NOT SATISFACTORY							
	В	SOMEWHAT SATISFACTORY							
	c	SATISFACTORY							
	D	QUITE SATISFACTORY							
	CHECK AS	MANY AS APPLY TO YOU:							
2.	WHEN I HA	VE TO SOLVE A PROBLEM, I USUALLY FEEL:							
	A	AFRAID OF FAILURE							
		BURNT-OUT							
	c	Helpless							
	D	OVERWHELMED							
	E	CAPABLE							
	F	CONFIDENT							
з.	THE RESUI	TS OF MY PROBLEM-SOLVING IN THE PAST HAVE:							
		BEEN LESS THAN SUCCESSFUL							
	В	BEEN SOMEWHAT SUCCESSFUL							
	c	BEEN VERY SUCCESSFUL							
	D	BEEN NEUTRAL							
	E	LED TO OTHER PROBLEMS							
4.	AFTER A	PROBLEM HAS BEEN SOLVED, I USUALLY:							
	A	AM GLAD IT'S OVER							
	в	GIVE A SIGH OF RELIEF							
		DON'T LOOK BACK							
		BLAME OR PRAISE OTHERS							
	E	DENY IT OR TAKE CREDIT							
	F	WISH I HAD DONE SOMETHING DIFFERENT							
		TEADY PROM MUP DICM							



H.

EVALUATE CAREFULLY

CRITICAL THINKING & PROBLEM-SOLVING



SELF AND OTHERS

DIRECTIONS:

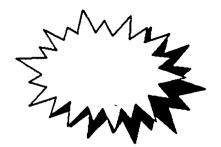
CAREFULLY READ ALL CHOICES IN EACH SECTION. CHECK THE RESPONSE THAT BEST DESCRIBES YOU.

WHEN A PROBLEM OCCURS, I USUALLY:

		·
1.	A. B. C.	RELY ON HELP FROM OTHERSWORK INDEPENDENTLYWORK WITH OTHERS AS A TEAM
2.	Х. В. С.	LET OTHERS DEAL WITH ITTAKE ON MORE THAN IS NECESSARYDO WHAT I CAN/DELEGATE APPROPRIATELY
3.	а. В. С.	AM MOST INFLUENCED BY OTHERS' IDEASAM MOST INFLUENCED BY MY OWN IDEASAM MOST INFLUENCED BY COMPROMISES
4.	А. В. С.	GET BOGGED DOWN IN THE SYSTEMWORK THROUGH CHANNELS, EVEN THOUGH IT TAKES TIMEWORK WELL WITHIN THE SYSTEM WITH SOME FLEXIBILITY
5.	A. B. C.	IGNORE FEEDBACK IF IT IS NEGATIVEDEFEND MY IDEAS AGAINST CRITICISMDO MY BEST, INCORPORATE SUGGESTIONS FOR IMPROVEMENT
6.	A. B. C. D.	IGNORE ITWAIT FOR MY WORK GROUP OR THOSE IN AUTHORITY TO ACTDO WHAT I CANLEAD OTHERS TO A SOLUTION



CRITICAL THINKING & PROBLEM-SOLVING SELF-ASSESSMENT



STYLE

DIRECTIONS:

CAREFULLY READ ALL CHOICES IN EACH SECTION. CHECK THE RESPONSE THAT BEST DESCRIBES YOU.

		WHEN A PROBLEM OCCURS, I USUALLY:
1.	B.	DON'T KNOW WHAT TO DO/HAVEN'T THOUGHT ABOUTTRY DIFFERENT THINGS
	C. D.	TRY TO PLAN, BUT DON'T ALWAYS FOLLOW THROUGH PLAN, ORGANIZE
2.	A.	PANIC
	В.	PROCRASTINATE
	C.	REACT
	D.	PLAN
3.		DENY IT
	B.	AVOID IT
	C.	FACE IT
4.		BECOME EMOTIONALLY INVOLVED
	B.	DO ONLY WHAT IS NECESSARY
	c.	BECOME INVOLVED IN THE CHALLENGE
5.	A.	LET IT RESOLVE ITSELF
	B.	DO WHAT SEEMS BEST AT THE TIME
	C.	SOLVE IT EVENTUALLY
	D.	SET GOALS, THEN ACT
	E.	HAVE PLANNED FOR IT IN ADVANCE
6.	A.	ACT RANDOMLY
	B.	ACT AS I HAVE IN THE PAST
	c.	ADAPT TO CHANGE
7.	A.	GET BOGGED DOWN IN DETAILS
	B.	LOOK AT THE WHOLE SITUATION
	C.	BREAK THE TASK DOWN INTO MANAGEABLE PARTS
8.	A.	SOLVE IT IN THE EASIEST WAY
	B.	DO WHAT WORKS AT THE MOMENT
	C.	LOOK FOR A PERMANENT SOLUTION
9.	A.	DON'T TRY VERY HARD
	B.	TRY FOR A TIME TO SOLVE IT
	C.	work it through
	D.	SOLVE IT. NO MATTER WHAT

CRITICAL THINKING & PROBLEM-SOLVING SELF-ASSESSMENT STYLE

DIR	CTIONS:			BEST DESCRIBES YOU.
		WHEN A PROBLEM	occurs,	I USUALLY:
10.	A.	FEEL PANIC, FR	ustration,	, OR ANGER
		FEEL I CAN COP		
	c	FEEL CALM AND	IN CONTRO	i.
11.	A.	HOPE I LIVE TH	ROUGH IT	SOMEHOW
	в	THINK ABOUT IT	A LITTLE	·
	c	TRY TO UNDERST	AND WHY	
12.	λ	spin my wheels		
		get something		
	c	GET A LOT ACCO	MPLISHED	
13.	A.	ignore it		•
	В	COVER IT UP		
	<u>c. </u>	COME THROUGH I	N THE END	
	D	HAVE A PLAN TO	SOLVE IT	
14.	I SEEM !	ro:		•
/ .	A	CREATE PROBLEM	S FOR MYS	ELF
	B	HAVE MORE THAN	MY SHARE	OF PROBLEMS
	c	HAVE THE SAME	PROBLEMS :	as everyone else
	D	HAVE FEW PROBL	ems	
15.	AFTER I	'VE SOLVED A PROB	LEM, I US	UALLY FEEL:
	A	RELIEF		
		SATISFACTION		
	CHECK A	S MANY AS APPLY T	o you:	
16.	THE WAY.	I SOLVE PROBLEMS	IS MAINL	Y INFLUENCED BY:
		PARENTS		work group
		PAMILY	H	SUPERVISOR
		FRIENDS	<u>i</u>	THOSE I ADMIRE
		HABIT	J	THOSE I ADMIRE WHAT I OBSERVE
		CONVENIENCE	к	MY OWN IDEAS
	F	TKIAL & ERROR	Li a	PROVEN EXPERIENCE



ASSESSMENT

A pre- and post-assessment will be given, each consisting of a reading selection and oral directions that require attentive listening so that students can respond with a written summary. The writing sample will be scored holistically.

PRE-ASSESSMENT

TO THE INSTRUCTOR: The pre-assessment should be used as a tool to evaluate students' reading, writing, listening, and speaking skills. The students will read of a situation, listen to directions, and respond to the information in written form.

Distribute Answer Sheet A and have the students silently read the information. Then, read the following aloud to the class. Read the information only once, as if you are distracted and in a hurry:

Hello, I am Mary Johnson, supervisor of the clerical department. As a new employee, you should be aware of a few details. Another new typist, Jane Smith, will be joining you She couldn't come today, so when I finish explaining your duties, I want you to write a memo to her summarizing what I have said.

Typing and distributing mail are the most important duties of this job. Now about the typing. You are required to type company-related work given to you by the people in customer service. Some people may give you a lot, so make sure you're only doing department work. And be careful about spending time on private matters. Some people will be real sticklers about details. Make sure that you check details carefully before you type. And, of course, some will give you work at the last minute and expect you to finish it. policy for typists is anything handed to you within one hour before quitting time can be finished by noon the next working day.

Meil comes twice a day, at 10 and 2. You will sort it and put it in the right boxes. If there is any mail that does not belong here, bundle it and mark it for return to the main post office.

Now let me tell you about breaks. You get ten minutes in the morning and afternoon, but take them at about 10:30 and 2:30 because it's quieter then. And you get a half hour for lunch. Although the time for lunch is flexible, you should probably leave by 12:15.

Now, if there are no questions, I have to run to personnel. Why don't you get that memo done while I'm cone.

After you have read the instructions and they have taken notes, distribute Answer Sheets B and C and have the students complete the memo and questions using their notes. As they finish, distribute the reading selection and answer sheat D. Remember to collect all FRIC four answer sheets for scoring.

•	OBJECTIVE NUMBERS	SCORING TEST SECTION	FOR PRE-ASSESSMENT HOW ASSESSED		POINT VALUE
	5:Read,follow directions	. А	took notes? complete notes brief notes no notes		2 1 .
	1:Listen	В	Number details in notes		1 ea.
	2,4,6,8,9: record info in writing	С	*Content (10 detail *Organization & for *Sentence structure *Mechanics	mat	0-4 0-4 0-4 0-4
	7:Verify info.	D	List speaker's prob	lems	0-2 0-4
	3,5:Read to	E	ans. 4 questions		4 ea.
	locate info.		TOTAL POSSIBL	E SCORE -	50 PTS
	If 50% of If 75% of	WRITING SAM details in details in details in f details i	ncluded ncluded ncluded	1 pt 2 pts 3 pts 4 pts	
	If content typing, ma If content PLUS, is a	t is organi ail, breaks t shows abo divided in	nimal organization ized in 3 sections: s ove organization to paragraphs and on and closing	1 pt 2 pts 3 pts	
	FORMAT If proper	memo forma	at used	1 pt	
	comma spli If no more comma spli If mostly more than If mostly 3 or less If uses va	han 5 senterices than 2 serices simple serices simple serices grammar erariety of	ntences but with	0 pt 1d 1 pt 2 pt 3 pt 4 pt	
)		han 7 error errors errors errors	CTUATION,CAPITALIZAT rs	NON) 0 pt 1 pt 2 pt 3 pt 4 pt	
			4 144 6		



NAME _____

Imagine that you are a 45-year-old homemaker returning to the work force. You have been hired as a typist and are listening to a supervisor explain your duties on your first day of work. She is a 27-year-old woman who appears very efficient but pre-occupied with other matters and is in a hurry to give you your directions so that you can finish filling out forms for the personnel department.

Listen carefully to her directions because not only will you need them for your own information, you will be expected to write a summary of the information for another new employee who can't be at the orientation. Take notes below.

NOTES



NAME (Memo #1)



NAME	

1. What are problems you had in understanding the information?

2. What questions would you ask to clarify the supervisor's instructions?



NAME		·						٠
Dire	ctions:	Read the these ques		notice	to fin	d the	answers	to
1.	What two	things are	employer	s requir	ed to d	o unde	r this la	aw?
				·				
2.	What does	this law r	require e	employees	to do?			
		··						
3.	If you, as	s a worker, ld you do?	feel yo	ur plant	has an	unsafe	conditi	on,
						-		
4.	What two	protections	s are gua	ıranteed				?





provides job safety and health protection for workers by throughout the Nation. Requirements of the Act include The Occupational Safety and Health Act of 1970 promoting safe and healthful working conditions the following:

All employers must furnish to employees employment and a place of Employers

employment free from recognized hazards that are causing or are likely to cause death or serious harm to employees. Employers must comply with occupational safety and health standards issued under the Act.

Employees must comply with all occupational salety and health standards, rules, regulations and orders issued under the Act that apply to their own Employees actions and conduct on the job.

The Occupational Salety and Health Administration (OSHA) of the U.S. Department of Labor has the primary responsibility for administering the Act. OSHA issues occupational safety and health standards, and its

Compliance Salety and Health Officers conduct jobsite inspections to help*

Proposed Penalty

citation will specify a time period within which the alleged violatior

The OSHA citation must be prominently displayed at or near the of alleged violation for three days, or until it is corrected, whicheve

later, to warn employees of dangers that may exist there.

The Act provides for mandatory penallies against employers of up \$1,000 for each serious violation and for optional penalties of up

\$1,000 for each nonserious violation. Penalties of up to \$1,000 ${ t F}$ may be proposed for failure to correct violations within the propo period. Also, any employer who willfully or repeatedly violates the Criminal penalties are also provided for in the Act. Any willful resulting in death of an employee, upon conviction, is punishable of not more than \$10,000, or by imprisonment for not more thar months, or by hoth. Conviction of an employer after a first convi be assessed penalties of up to \$10,000 for each such violation.



suthorized by the employees be given an opportunity to accompa The Act requires that a representative of the employer and a repri JSHA inspector for the purpose of aiding the inspection.

Compliance Officer must consult with a reasonable number of employees Where there is no authorized employee representative, the OSHA

azards voluntarily and to develop and improve safety and health programs

n all workplaces and industries. OSHA's Voluntary Protection Programs

Such voluntary action should initially locus on the identification and

ecognize outstanding efforts of this nature:

dimination of hazards that could cause death, injury, or illness to employees and supervisors. There are many public and private

While providing penalties for violations, the Act also encourages efforts by

Voluntary Activ

abor and management, before an OSHA inspection, to reduce workplace

concerning safety and health conditions in the workplace.

Complaint

ne nearest OSHA office requesting an inspection if they believe unsafe or Employees or their representatives have the right to file a complaint with unhealthful conditions exist in their workplace. OSHA will withhold, on equest, names of employees complaining.

equested. Also, your local OSHA office can provide considerable help and

advice on solving safety and health problems or can refer you to other

sources for help such as training.

organizations that can provide information and assistance in this effort, if

discriminated against in any way for liling safety and health complaints or The Act provides that employees may not be discharged or or otherwise exercising their rights under the Act.

Employees who believe they have been discriminated against may file a complaint with their nearest OSHA office within 30 days of the alleged

employers, on request, through OSHA supported programs in most State

departments of labor or health.

ree consultative assistance, without citation or penalty, is available to

Consultation

I upon inspection OSHA believes an employer has violated the Act, a citation alleging such violations will be issued to the employer. Each

More Information

applicable regulations may be obtained from your employer Additional information and copies of the Act, specific or from the nearest OSHA **JSHA** safety and health Regional Office in the standards, and other following locations:

office locations, are listed in he telephone directory under the United States Department offices, and additional area

30ston, Massachusetts

Allanta, Georgia

Chicago, Illinois

of Labor in the United States elephone numbers for these

Washington, D.C. **OSHA 2203**

William E. Brock, Secretary of Labor

Sovernment listing.

Philadelphia, Pennsylvania San Francisco, California

Seallle, Washington

Kansas Cily, Missouri

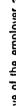
Denver, Colorado

Jallas, Texas

New York, New York

Occupational Safety and Health Administration U.S. Department of Labor

Under provisions of Title 29, Code of Federal Regulations, Part 1903.2(a)(1) employers inust post this notice (or a facsimile) n a conspicuous place where notices to employees are customerily posted.



POST-ASSESSMENT

TO THE INSTRUCTOR: Distribute Answer Sheet A and have the students silently read the information. Then, read the following aloud to the class. Read the information only once, as if you are distracted and in a hurry:

Hello, my name is Hank Cranshaw, and I am the mailroom foreman. As a mailing clerk, you are to mail or dispatch books in mailers, envelopes, cartons, or other type packages according to specified schedules posted at the beginning of each week. You should wrap loose bundles of books by hand using the tying machine. Always remember to place the invoices with the order in single-piece mailers or cartons. Weigh individual mailers and cartons to determine correct mailing fees. The chart of package weights and corresponding fees is on the scale. Apply labels and postage to each package and sort them according to destination and place in specified mail bags or carts.

Although your shift begins at 8:00 A.M., you should report to the mailroom no later than 7:45 A.M. to find out what work has priority from the shift before yours. Before you leave at 5:00, you must explain to the next shift what work still remains. You will have two fifteen-minute breaks, one in the morning and one in the afternoon. Your lunch break will last thirty minutes, starting between 12 and 12:15, and ending at 12:30 to 12:45.

If there are no questions, I would like you to write a memo new explaining your duties and work schedule to Pete Olson, another new employee who could not start today. I'll check the memo when I come back from Personnel with your health benefits package.



A

NAME				
	 	 	 	 _

You are a fifty-year-old male employee, recently terminated from your mail clerk job of fifteen years. You are at a job orientation at your new job site. The mailroom foreman is thirty years old and very impatient as he tells you of your job duties and work schedule.

Listen carefully to the message read by the instructor acting as the mailroom foreman. Take notes below while you listen.

Afterwards, prepare a memo to a fellow employee who needs to know the information, but could not be present at the orientation.

NOTES



~	

NAME (Memo)



NAME			

1. What are problems you had in understanding the information?

2. What questions would you ask to clarify the supervisor's instructions?



NAME	· · · · · · · · · · · · · · · · · · ·
<u>Directions:</u>	Read the attached notice to find the answers to these questions. Write the answers in your own words.
	things have to be included in an OSHA citation an employer?
2. What pun law in a	ishment can be given to an employer who violates this way that leads to the death of an employee?
Departme	lp can employers get through their state Health nt?
4. What is voluntar	the first effort that an employer should take ily?

1:

provides job safety and health protection for workers by hroughout the Nation. Requirements of the Act include The Occupational Safety and Health Act of 1970 promoting safe and healthful working conditions he tollowing:

Employers

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The OSHA citation must be prominently displayed at or near the place of alleged violation for three days, or until it is corrected, whichever is later, to warn employees of dangers that may exist there.

Proposed Penalty

\$1,000 for each serious violation and for optional penalties of up to \$1,000 for each serious violation and for optional penalties of up to \$1,000 for each nonserious violation. Penalties of up to \$1,000 per day may be proposed for failure to correct violations within the proposed time period. Also, any employer who willfully or repeatedly violates the Act may be assessed penalties of up to \$10,000 for each such violation.

Criminal penalties are also provided for in the Act. Any willful violation resulting in death of an employee, upon conviction, is punishable by a line of not more than \$10,000, or by imprisonment for not more than six months, or by both. Conviction of an employer after a first conviction doubles these maximum penalties.

authorized by the employees be given an opportunity to accompany the OSHA inspector for the purpose of aiding the inspection.

Compliance Officer must consult with a reasonable number of employees

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in all workplaces and industries. OSHA's Voluntary Protection Programs

Such voluntary action should initially focus on the identification and

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While providing penalties for violations, the Act also encourages efforts by

labor and management, before an OSHA inspection, to reduce workplace

Where there is no authorized employee representative, the OSHA concerning safety and health conditions in the workplace.

Complaint

Employees or their representatives have the right to file a complaint with the nearest OSHA office requesting an inspection if they believe unsafe or unhealthful conditions exist in their workplace. OSHA will withhold, on equest, names of employees complaining.

equested. Also, your local OSHA office can provide considerable help and

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sources for help such as training.

organizations that can provide information and assistance in this effort, if

discriminated against in any way for filing safety and health complaints or The Act provides that employees may not be discharged or or otherwise exercising thora rights under the Act.

Employees who believe have been discriminated against may file a complaint with their nearest uSHA office within 30 days of the alleged discrimination

employers, on request, through OSHA supported programs in most State

departments of labor or health.

ree consultative assistance, without citation or penalty, is available to

Consultation

Citation

If upon inspection OSHA believes an employer has violated the Act, a citation alleging such violations will be issued to the employer. Each

Allanta, Georgia More Information

Additional information and copies of the Act, specific

JSHA safety and health

Boston, Massachusetts Chicago, Illinois Jallas, Texas

the telephone directory under the United States Department of Labor in the United States

office locations, are listed in offices, and additional area

Washington, D.C. **OSHA 2203** elephone numbers for these

William E. Brock, Secretary of Labor

J.S. Department of Labor

Occupational Safety and Health Administration

Philadelphia, Pennsylvania san Francisco, Calilornia Kansas City, Missouri Vew York, New York Seattle, Washington Denver, Colorado applicable regulations may be obtained from your employer or from the nearest OSHA Regional Office in the standards, and other following locations:

Government listing.



Undrit provisions of Title 29, Code of Federal Regulations, Part 1903.2(e)(1) employers must post this notice (or e facsimile) in a conspicuous place where notices to amployees are customerly posted.

EXHIBIT E



Name	
Date	
Company	

READING/WRITING PRE-ASSESSMENT

Read the employee handbook section on TIME RECORDING; then answer the question.

Time Recording - We are required by Federal Laws to keep daily time records. A time clock has been provided for this purpose. All employees are required to punch in at the beginning of their shift, lunch time, if they leave the building, and when they leave for the day. Do not punch in more than ten (10) minutes before normal start time and do not punch out more than ten (10) minutes after stopping time. No hourly employee is permitted to commence work before normal start time without the specific approval of the plant manager or plant foreman.

No employee is permitted to punch a time card for another employee under any circumstances. Any alteration to the time cards, either a change of a time registration or the filling in of a missing registration, must be done by the plant manager or plant foreman. Any abuse of the time clock procedures will be cause for dismissal.

1. If you mistakenly punch in on someone else's time card, what should you do?

Writing I. Ed Lopez of Rose Paper Co. (555-6240) calls to speak to Jim Smith. He says, "Tell Jim that we do not have enough #56214 stock to fill his order. I have some alternatives to suggest. Have him call me." Complete the form on page 2 with this message.



		To	Date
			ou were out
		of Phone No. (home)	<u> </u>
		☐ Came to see you☐ Telephoned☐ Returned your cal	☐ Please call back ☐ Will call again ☐ Will not be in class/ meeting
		Schedule	ed an appointment:
		Left the following mess	
			Recorder
Wr	ite the complete v	word for these abbreviation	ons. (Don't worry about spelling.
2.	YTD		
3.	OD		
4.	.@		•
Use	e the attached Ma	nterial Safety Data chart to	o answer these questions.
5.	What does this	material look like?	
6.	What should ye	ou do if someone swallov	vs this material?

What can result from burning this material?

7.

-2-

HEALTH FLAMMABILITY REACTIVITY

CHEMICAL FAMILY

ALCOHOLS

ETHANOL (Denatured)

MATERIAL SAFETY DATA SHEET

SECTION	II REVISED	3/14/87
PRODUCT NAME TYPE B CLEANER/FAST REDUCER	DATE PREPARED 10/22/92	PRODUCT NUMBER 04S-678
CRABCAKE INDUSTRIES		EMERGENCY TELEPHONE NO 555-1234
ADDRESS (Number, Street, City, State and Zip Code)		D.U.N.S NO.
800 Main Street Baltimore, Maryland 20000		987-62
HAZARDOUS MATERIAL DESCRIPTION, PROPER SHIPPING NAME, HAZA	ARD CLASS, HAZARD ID NO. (4	9 CFR 172.101)
Denatured Alcohol, Denatured Alcohol, Flammable	Liquid, NA-1906	<u>.</u>
CHEMICAL NAME		

FORMULA

N/A

SECTION II - INGREDIENTS

(list all ingredients)

CAS REGISTRY NO. %W %W	CHEMICAL	NAME(S)	Listed as a Carcinogen in NTP, IARC or OSHA 1910(z) (specify)
64-17-5	ETHYL ALCOHOL	81.3% By Volume	No
67-63-0	ISOPROPANOL	9.0% By Volume	No
67-56-1	METHYL ALCOHOL	4.2% By Volume	No
· 			

SECTION III - PHYSICAL DATA

APPEARANCE AND ODOR	Cle	ar liquid; Characteristic Odo	r.	IS'MATERIAL: X LIQUID GAS PASTE PO	SOLID
SOLUBILITY IN WATER	100%	ph-	N/A		
VAPOR DENSITY (AIR-1)	1.6	EVAPORATION RATE (-1) Butyl Acetate = 1	3.2		
VAPOR PRESSURE 	osi	PERCENT VOLATILE BY VOLUME (%) 100%		PERCENT SOLD BY WEIGHT %	N/A
BOILING POINT oF 78.5 °C		SPECIFIC GRAVITY (H,O-1) .808			

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

	o _F °(TCC	FLAMMABEL LIMITS	LEL	2.0	^{UEL} 19.0
EXTINGUISHING MEDIA			y chemical for an water for large fi			•	
SPECIAL FIRE FIGHTIN			Maret IOL ISTOR II	res	_		
None							
UNUSUAL FIRE AND E	XPLOSION H	AZARDS				-	
Autoignition To	emperatur	re 793° F.					



SECTION V - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE -	Conditions to Avoid	THRESHOLD LIMIT VALUE
Swallowing liquid causes ineb	riation, headache, nausea, and vomiting.	Liquid causes eye irritation.
Breathing of vapors may cause	drowiness.	
PRIMARY ROUTES OF ENTRY	Inhalation (X) Skin Contact (X)	Other (specify)
EMERGENCY AND FIRST AID PR	OCEDURES	
Flush skin and eye contact wi	th plenty of water. If inhaled remove to	air; give artificial respiration if breathing has stopped.
Call a physician. If swallowed	i, induce vomiting.	

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE	CO	OITION	NS TO AVOID				
SIADILIT	STABLE	X Ave	Avoid heat, sparks, and open flame.					
	DECOMPOSIT	TON PRODUCTS:	produ	ce carbon monoxide				
HAZARDOUS		MAY OCCUR		CONDITIONS TO AVOID				
•		WILL NOT OCCUR	l v	None				

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OF	SPILLED	
Flush heavily with water.		
WATER DISPOSAL METHOD		
Incinerate	<u> </u>	
CERCLA (Superfund) REPORTABLE QUANTITY (In ibs)	N/A	
RCRA HAZARDOUS WASTE NO. (40 CFR 261.33)	N/A	
VOLATILE ORGANIC COMPOUND (VOC) (as packaged, minu	s water) N/A	
Theoretical N/A lb/gal	Analytical N/A lb/gal	

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PR	ROTECTION (specify type) Air-sup	plied mask in confined areas.
VENTILATION	LOCAL EXHAUST Preferre	ed SPECIAL N/A
	MECHANICAL (General)	OTHER N/A
PROTECTIVE GLO	OVES Plastic Gloves	EYE PROTECTION Monogoggles
OTHER PROTECT	IVE EQUIPMENT Eye Bath and Safety Sho	wer

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING		
WARNING! FLAMMABLE. Contains ingredients which render this product wholly unfit for beverage purpose; if		
taken internally will cause aerious consequences. Keep away from heat, sparks, and open flame.		
OTHER PRECAUTIONS		
Keep container closed. Use with adequate ventilation.		
FOR INDUSTRIAL USE ONLY.		
FUR INDUSTRIAL USE ONLY.		



4.

DISTRIBUTION OF OVERTIME

Read this section of the union manual to find the answers to the following questions.

- 8. How is overtime offered fairly to employees in the same department and on the same shift?
- 9. Who will get preference for scheduled weekday overtime?

DISTRIBUTION OF OVERTIME

The company will distribute overtime as uniformly as practicable among qualified employees within a department, on a shift, within a job classification.

- A. Preference will be given for occasional daily overtime to the employee who has worked all day on the job involved. Preference will be given for scheduled overtime from Monday through Friday to the crew that the company assigned to the equipment.
- B. All overtime hours are to be recorded and kept posted up-to-date by Tuesday of each week in all departments. Duplicate copies of all recorded overtime to be furnished each chief steward and chairman of Grievance Committee. All departments' recorded overtime will be reviewed at the regular monthly grievance meeting by the Industrial Relations Manager and the Grievance Committee.
- C. Overtime will be rotated among all qualified departmental employees on the shift until each has been offered one turn, after which rotation will start anew. The qualified department employee requested to work will be the employee with the lowest amount of recorded overtime. Should additional employees be needed to fulfill the overtime requirements, they shall be selected from the plant list within the shift and job classification concerned.



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- 10. List the page(s) where you will find information on air conditioning climate effects.
- 11. List the page(s) where you will find tests for drying of ink.



FIRE EXTINGUISHERS: Use the chart to answer these questions.

- 12. A pile of paper scrap is on fire. The two nearest fire extinguishers are a red one with a black nozzle and a red one with a short hose. Which one should you use?
- 13. You see a fire in a corner but aren't sure what is burning. Which would be the best fire extinguisher to use?

CONTAINS 2 1/2 pressurized water "BC" 5 lb. CO ₂	USED ON Class A fires paper, wood Class B and C		
pressurized water "BC"	paper, wood		
water "BC"			
"BC"	Class B and C		
	Class B and C		
5 lb. CO ₂	Class B and C		
_	~ mile C		
(carbon dioxide)	fires. Oil and		
	electrical. Can be used		
	on Class A fires with		
	limited effectiveness.		
"ABC"			
6 or 10 lb. of	Class A, B, and C fires.		
dry chemical	Paper, wood, oil,		
\$	electrical.		
"ABC"			
5 to 10 lb. halon	Computer rooms		
	6 or 10 lb. of dry chemical		



Read the Employee Handbook section on Jury Duty to find the answers to these questions.

JURY DUTY

All regular, full-time employees required to serve on jury duty are eligible for time off with pay.

When you receive a notice to report for jury duty, you must notify your supervisor immediately. If the workload in your department is heavy, the company may request that you be excused or exempted from such duty. If you are not required to serve as a juror on a particular day, you must contact your supervisor as soon as possible to determine if you are needed to work that day.

To qualify for jury duty pay, you must provide your supervisor with a copy of the jury subpoena before leave is granted as well as any receipts or other records provided by the court showing the amount received as juror's fees, travel expenses, or other compensation provided by the court.

Your jury duty pay will be calculated at the rate of eight hours of straight time for each day absent. No overtime or holiday wages will be paid. All regular compensation received from the court will be deducted and you will be reimbursed the difference. You will not be entitled to jury duty pay for a period in excess of 80 scheduled work hours per calendar year.

- 14. If there is a paid holiday while you are on jury duty, will the company pay you overtime for that day?
- 15. How does this company determine your pay while you are on jury duty? Use your own words to answer.
- 16. If you normally work full time and are on jury duty for three weeks, for how many days will the company NOT pay you?



Rea	d the attached notice on unemployment insurance	e to find the answers to these questions.
17.	How do you think you could find out if you have	e sufficient earnings in your Base Period?
18.	If you have been hurt and are on medical leave,	can you receive unemployment benefits?
19.	If you are fired for excessive absence without cobenefits?	ause, can you receive unemployment
20.	Where does the money come from that is used in	for unemployment benefits?
Plac wor	ce the letter of the correct word on the line in from ds.	at of each definition. There are three extra
	21. printer's unit of measurement	A. blanket
	22. platform support for cut paper	B. dummy
	23. printed and folded sheet	C. halftone
	24. photograph reproduction through a contact screen	D. insert

WRITING III: Use the attached blank sheet to write a memo to your supervisor telling him you have been called for jury duty. Your department workload is very heavy.

25. printed piece put into a publication



E. pica

G. skid

F. signature

UNEMPLOYMENT INSURANCE

TO EMPLOYEES

YOUR EMPLOYER IS SUBJECT TO the Maryland Unemployment Insurance Law and pays taxes under this law. No deduction is made from your wages for this purpose.

IF YOU ARE LAID OFF or otherwise become unemployed, go immediately to the nearest Department of Employment and Training office to register for work and to file your claim.

IF YOU ARE ELIGIBLE, you may be entitled to unemployment insurance benefits for as many as 26 weeks.

IF YOU ARE WORKING LESS THAN FULL TIME, you may be eligible for partial benefits. If your regular hours of work have been reduced, go promptly to the nearest office of the Department of Employment and Training to file your claim and to inquire about your benefit rights.

YOU ARE ENTITLED TO BENEFITS IF:

- 1. You are unemployed through no fault of your own.
- 2. You have sufficient earnings in your Base Period.
- 3. You have registered for work and have filed a claim for benefits at a Department of Employment and Training office.
- 4. You are able to work, available for work, and actively seeking work.

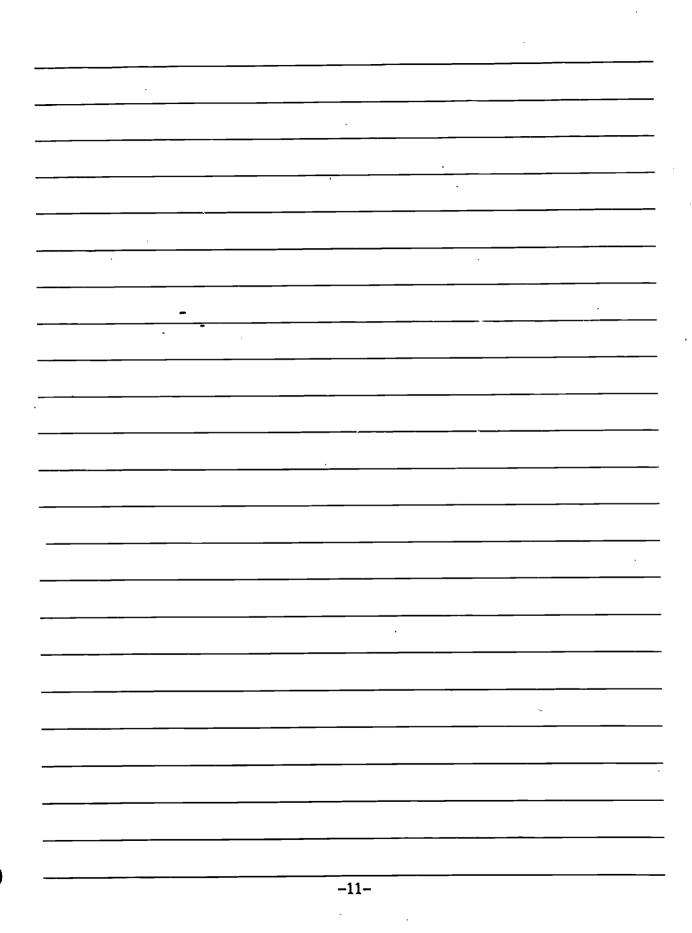
NOTE: To insure prompt handling of your claim, it is necessary to take your Social Security card with you.

WHETHER TOTALLY OR PARTIALLY UNEMPLOYED

For full information, go to your nearest Employment Department of Employment and Training Office.



-10-





READING/WRITING PRE-ASSESSMENT ANSWER KEY

- 1. Take it to the plant manager or plant foreman.
- 2. year-to-date
- 3. outside diameter
- 4. at
- 5. a clear liquid
- 6. induce vomiting
- 7. carbon monoxide may be produced
- 8. rotated among all qualified employees in the same department and on the same shift.
- 9. the crew assigned to the equipment.
- 10.60
- 11. 139
- 12. red one with short hose
- 13. red with short hose and nozzle
- 14. no
- 15. paid for 8 hours for each day on jury duty, minus the juror's fee.
- 16. 5 days
- 17. take pay slips to the Unemployment Office
- 18. no (you are unable to work)
- 19. no
- 20. taxes paid by employer
- 21. pica
- 22. skid
- 23. signature
- 24. halftone
- 25. insert



MATH PRE-ASSESSMENT

PART ONE - COMPUTATION

Directions: Solve the following problems, showing your work on this paper. CIRCLE your answers.

1) Subtract:

\$279.86 from \$500.00

2) Find the average of these numbers:

263, 487, 198, 224, 406, 354

3) Divide:

6/4254

4) Add:

 $\frac{5}{8} + \frac{7}{8}$

5) Subtract:

6) Express as a decimal:

 $\frac{3}{8}$

7) Multiply:

6,283 x 47 8) Divide and carry out answer to 2 decimal places:

28 /9690

9) Add:

$$4\frac{3}{4}$$
 $-1\frac{1}{3}$

10) Multiply:

$$2\frac{2}{5}$$
 x $2\frac{1}{4}$

11) Divide:

$$4 \div \frac{1}{3}$$

12) Add:

13) Subtract:

14) What is 6% of 85

15) What percent of 32 is 24?

16) Multiply:

17) Divide and round answer to nearest tenth:

PART TWO - PROBLEM SLOVING

Directions: Solve these problems, showing your work on this paper. CIRCLE your answers.

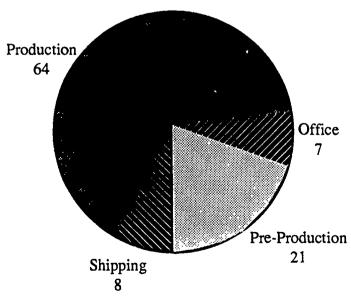
18) Mabel needed three pieces of pipe, measuring 3 ft. 6 in., 2 ft. 9 in. and 5 ft. 1 in. How much pipe did she need in all?

19) A printing job calls for mixing 2 colors of ink with a ratio of 5 parts of yellow to 12 parts of green. If the job calls for 30 lbs. of green, how many lbs. of yellow should be used?

Use the Graph of Employee Distribution to answer #20 & #21.

- 20) What percentage of employees work in production and shipping combined?
- 21) If Crabcake Machinery has 350 employees, how many people work in the Shipping Dept?

CrabCake Machinery EMPLOYMENT DISTRIBUTION CHART % per Department





.3. 206

22) Joe began a job at 7:45 a.m., and worked continually on it for 6 1/2 hours. He took a break from 12:00 to 12:30. What time did he finish the job?

23) A can of solvent costs \$5.89. The Maintenance Dept. budget allows 1/6 of its annual budget of \$550 for solvent. About how many cans will this buy?

24) Boxes which measure 1.2 meter in length and .6 meter in width are stored in an area 48 ft long and 24 ft wide. How many boxes will fill the area two layers deep? (1 meter = 39.37 inches)

25) Crabcake Machinery had gross sales last year of \$4,900,000 last year with profits of \$249,900. This year sales were \$5,100,000 with profits of \$275,4000. What was the difference in the percent of profits for this year over last year?



MATH PRE-ASSESSMENT ANSWER KEY

- 1. \$220.14
- 2. 322
- 3. 709
- 4. 1 1/2
- 5. 1/2
- 6. .375
- 7. 295,301
- 8. 346.07
- 9. 6 1/12
- 10. 5 2/5
- 11. 12
- 12. 82.694
- 13. 12.385

- 14. 5.1
- 15. 75%
- 16. 15.7785
- 17. 45.6
- 18. 11 ft.4 in.
- 19. 12.5 lbs.
- 20. 72%
- 21. 28
- 22. 2:45 PM
- 23. 15
- 24. 48
- 25. .3%



MATH POST-ASSESSMENT

Name	:		
Date			
Comp	any		

PART ONE - COMPUTATION

Directions: Solve the following problems, showing your work on this paper. CIRCLE your answers.

- 1) Subtract \$469.72 from \$700
- 2) Find the average of theses numbers:

467, 529, 388, 406, 299, 353

3) Divide:

7 / 5649

4) Add:

5/6 + 5/6

5) Subtract:

7/8 1/4 6) Express as a decimal:

5/8

7) Multiply:

7192 x_78 8) Divide and carry out answer to 2 decimal places:

37/8590

9) Add:

10) Multiply:

11) Divide:

$$3 \div 1/6$$

12) Add:

Subtract:

14) What is 12% of 35?

16) Multiply:

17) Divide and round your answer to the nearest tenth.

PART TWO - PROBLEM SOLVING

Directions: Solve these problems, showing your work on this paper. **CIRCLE your answers.**

18. Joe needed three pieces of pipe, measuring 4 ft. 5 in., 3 ft. 8 in., and 2 ft. 6 in. How much did he need in all?

19. A painting job calls for mixing two colors of paint with a ratio of 5 parts blue to 8 parts white. If the job calls for 20 gallons of white, how many gallons of blue should be used?

20. From the graph, "Employment Distribution Chart", What percentage of employees work in Production and Pre-Production combined?

21. If Crabcake Industries has 400 employees, how many people work in the office?

22. Mary began a job at 8:15 AM that took 4 1/2 hours to complete. She took a break from 10:45 until 11:00. What time did she finish the job?



23. A box of computer diskettes cost \$8.75. The Computer Department allows 1/8 of its annual budget of \$5800 for diskettes. About how many boxes will this buy?

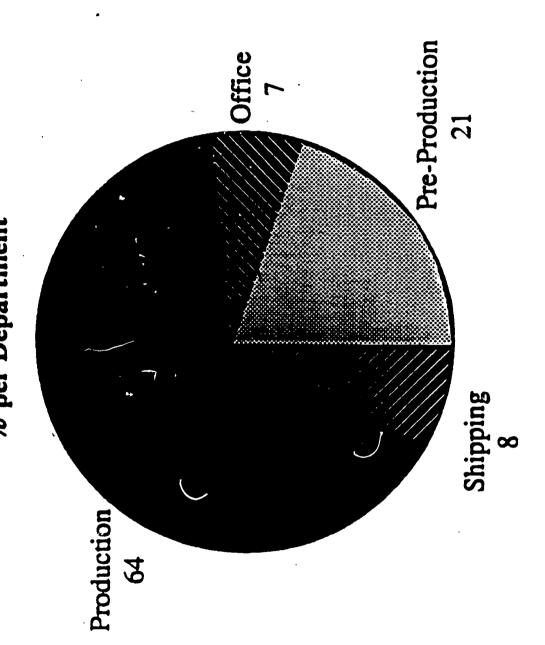
24. Boxes which measure 1.4m in length and .8m in width are stored in an area 25 ft. long and 9 ft. wide. How many boxes will fill the area three layers deep?

(1 meter = 39.37 inches)

Crabcake Industries had gross sales last year of \$4,800,000 with sales expenses of \$180,000. This year the gross sales were \$5,200,000 and sales expenses were \$190,000. What was the decrease in the percent that sales expenses were of the gross sales this year over last year?

(lweidner\mathpost.ass)

EMPLOYMENT DISTRIBUTION CHART Crabcake Machinery % per Department





MATH POST-ASSESSMENT ANSWER KEY

1. Subtract \$469.72 from \$700.	Ans: \$230.28
2. Find the average of these numbers: 467, 529, 388, 406, 299, 353	Ans: 407
3. Divide	Ans: 807
4. Add: 5 / 6 + 5/6	Amo: 4.0/0
5. Subtract: 7/8	Ans: 1 2/3
- 1/4 	Ans: 5/8
6. Express as a decimal: 5/8	Ans: .675
7. Multiply: 7192 X 78	Ans: 560976
8. Divide and carry out answer to 2 decimal places:	
37/ 8590	Ans: 232.16
9. Add: 6 2/3 + 2 3/4	
	Ans: 9 5/12
10. Multiply: 2 1/5 X 3 3/4	Ans: 8 1/4
11. Divide: 3 1/6	Ans: 18
12. Add: .37, 70.83 and 5.008	Ans: 76.208
13. Subtract: 24.03982	Ans: 23.048



14. What is 12% of 35

15. What percent of 85 is 51?

Ans: 4.2 Ans: 60%

16. Multiply:

186.2

X .087

Ans: 15.1994

17. Divide and round answer to the nearest tenth: .67/28 Ans: 41.8

18. Joe needed three pieces of pipe, measuring 4 ft. 5 in, 3 ft. 8 in., and 2 ft. 6 in. How much did he need in all?

Ans: 10 ft. 7 in.

19. A painting job calls for mixing two colors of paint with a ratio of 5 parts of blue to 8 parts of white. If the job calls for 20 gallons of white, how many gallons of blue should be used?

Ans: 12 1/2 gal.

20.From the graph "Employment Distribution Chart, what percentage of employees work in Production and Pre-Production combined?

Ans: 85%

- 21. If Crabcake Industries has 400 employees, how many people work in the office?

 Ans: 28
- 22. Mary began a job at 8:15 AM that took 4 1/2 hours to complete. She took a break from 10:45 until 11:00. What time did she finish the job?

 Ans: 1:00 PM
- 23. A box of computer diskettes costs \$8.75. The Computer Dept. allows 1/8 of its annual budget of \$5800. for diskettes. About how many boxes will this buy?

 Ans: 80 boxes
- 24. Boxes which measure 1.4 m. in length and .8 m. in width are stored in an area 25 ft. long and 9 ft. wide. How many boxes will fill the area three layers deep?

 Ans: 45 boxes
- 25. Crabcake Industries had gross sales last year of \$4,800,000 with sales expenses of \$180,000. This year the gross sales were \$5,200,000 and sales expenses were \$190,000. What was the decrease in the percent that sales expenses were of gross sales this year over last year? Ans: .1%



Not in Parallers

READING/WRITING POST-ASSESSMENT

Competency: Read workplace materials to follow directions.

Objective: Apply a set of directions to workplace activities.

Directions: Read the "Duties of a Truck Drive" to find the answer to this question.

DUTIES OF A TRUCK DRIVER

- * Check today's box and line up all tickets for one direction.
- * Be pleasant and courteous to customers. You are a company salesman and you should represent your company well.
- * Before leaving, check oil, battery and tires.
- * Call in at least once incase we have to give you instructions.
- * Get credit cards in morning and return after the day's deliveries.
- * Make sure you have maps of the area you will be delivering in.
- * Follow schedule as fast and close as possible. Be sure to return by 4:30 even if it means missing a few deliveries.
- * NEVER PICK UP ANYONE ON THE ROAD.
- * If you are low on gas when returning, fill up the tank.
- 1. List the things the truck driver should do before he or she leaves the plant in the morning.



WRITING I - Telephone Message Form

Joan Madison, of Ross Brothers (555-6300) calls to speak to Ed Jefferson. She says, "Tell Ed that our people made a mistake on the quantity of order #61542. He should talk to me before filling the order. If it has gone out already, have him call me. My phone # is 2457. Fill out the form below with this message.

Write the complete word for these abbreviations. (Don't worry about spelling.)

- 2. N/A
- 3. Ext.
- 4. Attn.

Drydene Material Safety Data Sheet

Use the attached Material Safety Data Sheet to answer these questions.

- 5. What does this material smell like?
- 6. How dangerous is it to swallow this material?
- 7. Will this material dissolve in water?

Overtime: Read the company rules about overtime to answer these questions.

- 8. In a certain week you work two 8 hour days and take off two days for vacation. On Friday, you work your regular 8 hour shift plus 4 hours overtime. For how many hours will you be paid this week?
- 9. In a certain week you work five 8 hour days plus 4 hours on Saturday and 4 hours on Sunday. For how many hours will you be paid for this week?



WRITING II - For the week described in Question #9 you are paid for only 40 regular hours. In the space below write a note to Payroll pointing out this error.

Yellow Pages: Scan the Yellow Pages Index to find this information.

- 10. You want to buy a trailer for one of the company trucks. One what page will you find this?
- 11. Your truck is out of service and you need to hire a company to make some deliveries for you. On what page will you find this?
- 12. You are at the point marked X. Exits A and B are blocked. What is your nearest exit?
- 13. You are at the point marked Y. Exits H and I are blocked. What is your nearest exit?
- 14. If you put an out-of-town letter in outgoing mail at 1:00 PM, when will it be picked up?
- 15. What are the receptionist's two responsibilities in mail procedures?
- 16. You are the person designated to pick up mail for your department. When would be the best times to pick it up?

DISTRIBUTION OF OVERTIME

The Company will distribute overtime as uniformly as practicable among qualified employees within a department, on a shift, within a job classification.

- Preference will be given for occasional daily overtime to the employee who has worked all day on the job involved. Preference will be given for scheduled overtime from Monday through Friday to the crew that the Company assigned to the equipment.
- All overtime hours are to be recorded and kept posted up-to-date by Tuesday of each week in all departments. Duplicate copies of all recorded overtime to be furnished each chief steward and chairman of Grievance Committee. All departments' recorded overtime will be reviewed at the regular monthly grievance meeting by the Industrial Relations Manager and the Grievance Committee.
- Overtime will be rotated among all qualified departmental employees on the shift until each has been offered one turn, after which rotation will start anew. The qualified department employee requested to work will be the employee with the lowest amount of recorded overtime. Should additional employees be needed to fulfill the overtime requirements, they shall be selected from the plant list within the shift and job classification concerned.

DUTIES OF A TRUCK DRIVER

- Check today's box and line up all tickets for one direction.
- Be pleasant and courteous to customers. You are a company salesman and you should represent your company well.
- Before leaving, check oil, battery, and tires.
- Call in at least once in case we have to give you
- Get credit cards in morning and return after the day's deliveries.
- Make sure you have maps of the area you will be delivering in.
- Follow schedule as fast and close as possible. Be sure to return by 4:30 even if it means missing a few deliveries.
- NEVER PICK UP ANYONE ON THE ROAD.
- If you are low on gas when returning, fill up the



711 ADMIRAL ENVL & PRINT CO 1300 N. FULTON AVENUE BALTIMORE, MD. 21217



MATERIAL SAFETY DATA SHEET

Date Issued:

10/23/87

Section A - IDENTIFICATION & EMERGENCY INFORMATION

Manufacturer's Name: DRYDEN OIL COMPANY Emergency Telephone Number: 301-574-5000

Address: 9300 Pulaski Highway

Baitimore, Maryland 21220

Product Name: Daynene Supreme xHD MOTOR OIL

10W, 20W-20, 30, 40, 50

Chemical Name: PETROLEUM LUBRICATING OIL

CAS Number:

COMPLEX MIXTURE

CAS Number Not Applicable

Product Appearance & Odor:

CLEAR, DARK AMBER LIQUID MTLD, BLAND PETROLEUM ODOR

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS)

Health

1

Flammability 1

Reactivity 0

HAZARD RATING: Least-0 Slight-1 Moderate-2

High-3 Extreme-4

SECTION B - COMPONENTS & HAZARD INFORMATION

CAS NO. OF

APPROXIMATE CONCENTRATION

COMPONENTS

Lubricating Oil Base Stock

COMPONENTS

GREATER THAN 85%

64742-54-7 64741-88-4

Proprietary Additives

Mixture

LESS THAN 15%

Exposure Limit for Total Product: 5mg/m³ oil mist

Basis: OSHA Reg 29 CFR 1910.1000

EXPOSURE EFFECTS: EYE-Slight irritation, SKIN-Slight irritation, INGESTION-Relatively non-toxic THIS PRODUCT IS NOT CONSIDERED HAZARDOUS BY OSHA IN ACCORDANCE WITH 29 CFR 1910.1200 OSHA COMMUNICATION STANDARD

SECTION C - PHYSICAL DATA THE FOLLOWING DATA ARE APPROXIMATE OR TYPICAL VALUES.

Boiling Range: Not Determined

Percent Volatile by Volume: NEGLIGIBLE

Specific Gravity (H₂O=1): 0 . 8927/0 . 8984

Vapor Pressure: NEGLIGIBLE

Vapor Density: GREATER THAN AIR

Pour Point: -34.C/-12.C

Evaporation Rate: NEGLIGIBLE

Viscosity: 100.C CST 6.90/18.4

Solubility in Water: Negligible, Below 0.1%

SECTION D - FIRE PROTECTION INFORMATION

FLASH POINT & METHOD: Min. ASTM D-92 C.O.C. OC.(OF.)

AUTOIGNITION TEMPERATURE: NOT DETERMINED

204(400)/232(450)

NONE

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) - Hazard Identification

Health --- 1

Flammability -1

Reactivity -- 0

Besis: Recommended by Dryden Oil Co. HAZARD RATING (NFPA): 4-Extreme 3-High 2-Moderate 1-Slight 0-Insignificant

FLAMMABLE LIMITS or EXPLOSIVE LIMITS: (Approximate Percent By Volume in Air) THESE ARE ESTIMATED VALUES. LOWER FLAMMABLE LIMIT-UPPER FLAMMABLE UNIT-0.9%

UNUSUAL FIRE & EXPLOSION HAZARDS:

BALTIMORE, MARYLAND (01)

(OVER) 16



OVERTIME

In addition to providing a quality product, our jobs depend upon our ability to meet production schedules. Overtime hours are often required to serve our customers.

Employee commitment to daily and weekly overtime is a necessary condition of employment at Port-City Press. Your willingness to work overtime is a factor considered during the performance appraisal process.

All approved paid time-off (except disability or sick leave) that occurs during the regular workweek will be counted as hours worked when computing overtime.

HOURLY employees will be paid overtime rates according to the following guidelines:

Overtime hours will be computed on the basis of one and one-half times your straight time hourly rate for:

- All hours worked in excess of your regular shift (8 paid straight time hours) during any weekday (Monday through Friday).
- All hours worked in excess of your regularly scheduled workweek (40 paid straight time hours) on the sixth workday of the week.

Overtime hours will be computed on the basis of two times your straight time hourly rate for:

- All hours worked on the seventh day providing 40 straight time hours have been paid during the same workweek.
 - On the seventh day, you will not be paid for more hours at double time than you were paid on the sixth day without specific advance authorization from your supervisor. The seventh day normally begins at 11 PM on Saturday night for third shift employees and at 7 AM on Sunday for first and second shift employees.
- All hours worked on a company holiday, providing certain "holiday weekend" conditions have been met.
 - If you are requested to work on a company holiday, you will be paid two times your straight time rate plus holiday pay. If schedule requirements are such that any holiday weekend days can be worked, the first overtime day will be at time and one-half and subsequent days will be at double time.
 - , For example, if a company-paid holiday falls on a Friday and you are asked to work on Saturday but elect to work on Friday, overtime will be paid at time and one-half plus holiday pay. If you work on Friday and Saturday, Friday will



15 Rice

The Act requires that a representative of the employer and a representative authorized by the employees be given an opportunity to accompany the OSHA inspector for the purpose of aiding the inspection.

Compliance Officer must consult with a reasonable number of employees Where there is no authorized employee representative, the OSHA concerning safety and health conditions in the workplace.

Complaint

Employees or their representatives have the right to file a complaint with the nearest OSHA office requesting an inspection if they believe unsafe or unhealthful conditions exist in their workplace. OSHA will withhold, on equest, names of employees complaining.

equested. Also, your local OSHA office can provide considerable help and

advice on solving safety and health problems or can refer you to other

sources for help such as training.

organizations that can provide information and assistance in this effort, if

discriminated against in any way for filing safety and health complaints or The Act provides that employees may not be discharged or for otherwise exercising their rights under the Act.

Employees who believe they have been discriminated against may file a complaint with their nearest OSHA office within 30 days of the alleged

employers, on request, through OSHA supported programs in most State

departments of labor or health.

Free consultative assistance, without citation or penalty, is available to

Consultation

Citation

If upon inspection OSHA believes an employer has violated the Act, a citation alleging such violations will be issued to the employer. Each

More Information

applicable regulations may be obtained from your employer Additional information and copies of the Act, specific or from the nearest OSHA OSHA safety and health Regional Office in the standards, and other following locations:

offices, and additional area Government listing. Philadelphia, Pennsylvania San Francisco, California 3oston, Massachusetts **Sansas City, Missouri** New York, New York Jenver, Colorado Chicago, Illinois Atlanta, Georgia Jallas, Texas

elephone numbers for these

of Labor in the United States the telephone directory under office locations, are listed in the United States Department

Washington, D.C.

William E. Brock, Secretary of Labor

J.S. Department of Labor

Occupational Safety and Health Administration

223

Under provisions of Title 29, Code of Federal Regulations, Part 1903.2(a)(1) employers must post this notice (or a facsimile) in a conspicuous place where notices to employees are customarily posted.

Seattle, Washington

Voluntary Activity

nazards voluntarily and to develop and improve safety and health programs

in all workplaces and industries. OSHA's Voluntary Protection Programs

ecognize outstanding efforts of this nature:

Such voluntary action should initially focus on the identification and

elimination of hazards that could cause death, injury, or illness to employees and supervisors. There are many public and private

While providing penalties for violations, the Act also encourages efforts by

abor and management, before an OSHA inspection, to reduce workplace

OSHA 2203

provides job safety and health protection for workers by proughout the Nation. Requirements of the Act include The Occupational Safety and Health Act of 1970 promoting safe and healthful working conditions he following:

Employers

employment free from recognized hazards that are causing or are likely to cause death or serious harm to employees. Employers must comply with All employers must furnish to employees employment and a place of occupational safety and health standards issued under the Act.

· Employees

employees must comply with all occupational safety and health standards, ules, regulations and orders issued under the Act that apply to their own ictions and conduct on the job.

Compliance Salety and Health Officers conduct jobsite inspections to help: he Occupational Safety and Health Administration (OSHA) of the U.S. Department of Labor has the primary responsibility for administering the Act. OSHA issues occupational safety and health standards, and its ensure compliance with the Act

citation will specify a time period within which the alleged violation must

The OSHA citation must be prominently displayed at or near the place of alleged violation for three days, or until it is corrected, whichever is ater, to warn employees of dangers that may exist there.

Proposed Penalty

period. Also, any employer who willfully or repeatedly violates the Act may may be proposed for failure to correct violations within the proposed time \$1,000 for each nonserious violation. Penalties of up to \$1,000 per day The Act provides for mandatory penalties against employers of up to \$1,000 for each serious violation and for optional penalties of up to be assessed penalties of up to \$10,000 for each such violation.

resulting in death of an employee, upon conviction, is punishable by a fine Criminal penalties are also provided for in the Act. Any willful violation of not more than \$10,000, or by imprisonment for not more that months, or by both. Conviction of an employer after a first o doubles these maximum penalties.

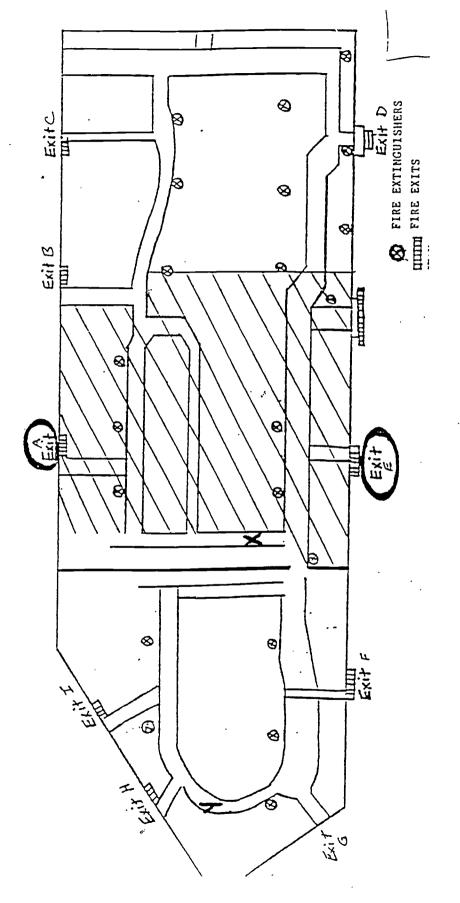
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Conservative	TELEPHONE 102		TRAILER	TRUCK
Conservative	16 Equipment-Mobile See	7 Ceramic - Centractors & Dealers - Residential 103	Hitches	
Jewish	16 Radio Communication :- : (Non-Ceramic - Contractors	Mobile Memory Body	Truck Renting & Leasing 1078
Percentructionist	16 Equipment & Systems	Residential 104	Renting & Leasing	Lubricating Service—See Service Stations—Gasoline &
Reconstructionist — 101 Reform — 101 Traditional — 101	16 Equipment & Systems - 102	Residential ————————————————————————————————————	O Storage — 105	6 Oil 966
Traditional 101	6 Equipment & Systems	Coment - Retail	TRAILERS -	Truck Repairing & Service 1082 Renting & Leasing 1078
SYNOGOGUES — 101 Messianic — 101	Service & Repair103	0 TILLERS-Garden—See	Automotive Utility	7 Penting & Leasing
messianic ————————————————————————————————————	Equipment & Systems	Lawn Mowers	Commercial - See	Renairing & Service
	Installation—See . U	0 TIRE Dealers—104	. Mohile Homes — Dealers &&	2002
T	Telephone Equipment & ****	Disposal - See 3 >	Trailers - Truck - 105 Equipment & Parts - 105	Springs - Automotive - Sales &
	3y31gms — Service & :1-1', '6'.	1 · - Armanabila Minatina ·	Horse 105	7 Service — 994 Stops — 1084
T-Shirts 101	Repair 103 Planning Service—See 224	Junk Dealers — 54	OfficeSee	1 Tauria
TABLE Decorations-Rentals—See	Telephone Companies 102	1" Bubbish & Camana Barana		Towing See Towing Automotive 1050
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'Office Supplies	Wake-Up Call Service 110	TOASTERS-Repairing-See	Railroads - Ticket Agencies - 88	Uphoistering—See
Stationers - Retail - 99	Wake-Up Call Service 1103	Appliances Household	1 Tau - 0	Automobile Seat Covers, Tops & Upholstery ————————————————————————————————————
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_	Cable, CATV & Satellite:	Desiers—Retail 269 TOILET Seats 1048 TOILETS—Portable—	TRANCEED	1 1VOCK2-11311612-266
Agencies — See Theatrical Agencies ———— 103:	7 Residential — 1030	TOILET Seats	Companies—See Express & Transfer Service 383	Trailers - Truck 1057
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Salons Equipment &	Schools —————— 1021	Directory are for there	Interpreters — 1057	TURF-See
Supplies - Retail 1019	& Radio - Dealers 1031 & Radio - Renting & 27 Leasing 1031	products and services used	TRANSMISSIONS -	Sod & Sodding Service 990
Recorders & Players -	Leasing — 1031	primarily for retail and	TRAPPING Equipment &	Equipment & Supplies — See
Sound - Dealers 1019 Recorders & Players	& Radio - Service & section	residential buying.	Supplies — 1063	Lawn & Garden Equipment &
Recorders & Players — Sound — Service &	& Radio - Service & 1031 Repair 1032 & Radio - Supplies & 1032	Classifications used for	Automobile 1057 TRAPPING Equipment & Supplies 1063 TRAVEL Accessories - See	Supplies S68 TURKISH Baths - See
Renair	Parts - Retail	business to business	Gift & Specialty Shops	Baths
Recordings Duplication	Stations & Broadcasting	buying can be found in the	Leather Goods - Dealers 625	TURKISH Baths See
DELAICE - 266	Companies ————————1035	C&P Business to Business	Luggage — Retail — — — 646	TUXEDOS-See
Recording Service—Sound &		sirectory. If you need this directory, call your	Mass - Dealers	Department Stores 341
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TATTOOING 1019	TEMPORARY Hein		Agencies & Bureaus 1063	Mens Clothing & Furnishings —
TAX	Contractors – See Employment Contractors – 372 TENNIS Clubs – See Clubs — 276 Court Construction — 1035 Courts – Private — 1035 Equipment & Supplies — 1035 Instruction — 1035 TENTS — 1035 Renting — 1036		Agencies — 1063 Escorts — 1070 TRAVELERS Checks Issued — 1070 TRAVERSE Rods – See	TYPEWRITERS
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TAXIDERMISTS 1023	TERRY Cloth - See	Hair Replacement ————453		
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Restaurants — 913 TEEN-Age Activities — 5ee	TEST Preparation	Agencies - Seemonia - militar	CALLACTION C	Accessories - Retail 1085
Youth Organizations &	Academic See 440m 5 Schools College Board 17,000	Travel Agencies & no map 1042	Accessories See Yan Conversions &	Retail 1085
Centers 1722	Preparation	Information 1043	Accessories	UNIONS Labor See
TELECOMMUNICATIONS - See Radio Communication	Tutorina	TOURS—See . A per particular	Covers See	Labor Organizations 561
FOINDMENT & Sweeper	TESTING-Personnel—See Personnel Consultants 748	Sightseeing Tours 979 Travel Agencies &	Cushions — See	UNIVERSITIES — See Schools — Universities &
Telegraph Service ———— 1023	MEATER Production	Travel Agencies & 1063	Automobile Seat Covers, Tops	Colleges (Academic)
			& Uphoistery — 147 Cushions — 304	UNPAINTED Furniture - See
TELEGRAMS - Novelty 1023	Theatrical Agencies 1037 THEATRE Equipment—See	Promoters 1050	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Furniture Unfinished 430
	Theatrical Equipment &	Automotive 1050	Deors-See	UPHOLSTERERS 1086
TELEMARKETING - See Telephone Communications		Boats-See	Truck Equipment & Parts 1078	Automobile See Automobile Seat Covers, Tops
381VKES	THEATRES 1037		Drive Shafts - See. Truck Equipment & Parts 1078	■ Uphoistery
TELEPHONE .	Agencies 1037	Equipment — — 194	Driving Instruction - See	JPHOLSTERY Fabrics —
Answering Service 1023	Agencies 1037 Equipment & Supplies 1037 Make-Up - Retail 1037 THERAPISTS-Montal	Automotive1053	Oriving Instruction 357	Ketaii 1088
Automatic Answering Equipment & Systems	Make-Up - Retail 1037	roys-		JSED Car Dealers See Automobile Dealers Used
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Services1027	TICKET Sales - Entertainment 1036	PADE Associations references	gardete Services 10 - may-3	Trailers — Automotive Unlity — 1056
1		the first of the same	Automotive1123	Trailers - Truck - 1057
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FIRE EVACUATION PLAN



To apply for a posted opening, simply write a note to your supervisor expressing your interest in the position. Your supervisor, in turn, will send the note to lluman Resources, who will arrange for an interview with you.

To be eligible for consideration, you must have been in your current job for a period of one year or more, be in good standing, and have a current performance appraisal on file which is good or better.

Employment of Relatives and Friends

will consider applications for employment from relatives and friends of present employees. However, as an equal opportunity employer, the company will recruit, hire, train, promote, and transfer on the basis of qualifications. Under no circumstances will relatives or friends be given special or preferential treatment.

In order to avoid any possible conflict and/ or raise the issue of preferential treatment, these guidelines will be followed:

- Individuals cannot directly supervise or be directly supervised by a close family member (defined as spouse, child, parent, parent-in-law, brother, sister, or other household members such as stepbrother, stepsister and/or close personal friends).
- If/two individuals reporting to the same supervisor marry, one of those individuals should make every effort to find suitable employment elsewhere in the company. If no suitable employment is found, the company may request that one of the individuals seek employment outside of the company.



READING/WRITING POST ASSESSMENT

Read the "Duties of a Truck Driver" to find the answer to this question.

1. List the things the truck driver should do before he or she leaves the plant in the morning.

Ans: check today's box, line up tickets, check oil, battery and tires, get credit cards

WRITING I - Telephone Message Form

Joan Madison, of Ross Brothers (555-6300) calls to speak to Ed Jefferson. She says, "Tell Ed that our people made a mistake on the quantity of order # 61542. He should talk to me before filling the order. If it has gone out already, have him call me. My phone is 2457."

Fill out the form below with this message.

Write the complete word for these abbreviations. (Don't worry about spelling.)

2. N/A

Ans: not applicable

3. Ext.

Ans: extension

4. Attn.

Ans: attention

Drydene Material Safety Data Sheet
Use the attached Material Safety Data Sheet to answer these questions.
5. What does this material smell like?
Ans: mild, bland petroleum odor

- 6. How dangerous is it to swallow this material? Ans: not very dangerous
- 7. Will this material dissolve in water?

 Ans: No

Overtime: Read the company rules about overtime to answer these questions.

8. In a certain week you work two 8 hour days and take off two days for vacation. On Friday you work your regular 8 hour shift plus 4 hours overtime. For how many hours will you be paid this week?

Ans:46 hrs.



- OSHA: Read the Job Safety and Health Protection notice to find the answers to these questions.
- 17. What two things have to be included in an OSHA citation against an employer?

 Ans.: list of violations, time period to correct them
- 18. What is the difference in penalties for serious and nonserious violations? Ans.: Serious mandatory fine, nonserious- optional
- 19. What help can employers get through their State Health Department? Ans.: free consultative assistance
- 20. What two protections are guaranteed to an employee who files a complaint against his company?

 Ans.: name can be withheld, he may not be discriminated against

WRITING III You are the supervisor of two employees who have announced their plans to get married. Read the information from the handbook, "Employment of Relatives and Friends" and write a memo to the two workers summarizing the rules in your own words.



EXHIBIT F





INDIVIDUAL LEARNING PLAN

NAME	INSTRUCTOR		
SS #	EMPLOYERCOURSE/SECTION #		
DATE ENTERED PROGRAM			

CASAS <u>READING</u>	MATH		
Appraisal	•		
Level			
Pre	-		
Post			
Lea	rning Style		
PROGRAM LEVEL			
OTHER DIAGNOSTIC INFORMATION:			
****************	**********		

INSTRUCTOR COMMENTS:



I have met with my instructor and we have discussed the above proposed program for my instruction. I will attend class regularly and work with my instructor to reach these goals.

Student Signature

Date

235

structor Signature

Date

EXHIBIT G



SKILLS TODAY FOR TOMORROW LEVEL 1 COMPETENCY PROFILE

	MASTERY	DATE OF
	ON ENTRY	MASTERY
READING COMPETENCIES		
1 READ & INTERPRET JOB-SPECIFIC VOCABULARY		
2 FIND INFORMATION IN ALPHABETICAL ORDER		
3 READ & INTERPRET INFORMATION FROM WRITTEN MATERIAL		
4 READ AND FOLLOW DIRECTIONS		
5 READ AND INTERPRET SEQUENTIAL DIRECTIONS		
6 USE TABLE OF CONTENTS, INDEX, AND APPENDICES		
7 READ & INTERPRET CHARTS, GRAPHS, TABLES		
8 READ & INTERPRET MAPS, DIAGRAMS, ILLUSTRATIONS, & BLUEPRINTS		
9 READ & INTERPRET NOTICES ABOUT SAFETY, RULES, & PROCEDURES		
10 READ & INTERPRET PROCEDURES FOR REPORTING ACCIDENTS & EMERGENCIES		
11 READ & INTERPRET DIRECTIONS FOR USING EQUIPMENT & MATERIALS		
MATHEMATICS COMPETENCIES		
1 ADD, SUBTRACT, MULTIPLY, DIVIDE WHOLE NUMBERS		
2 ADD, SUBTRACT, MULTIPLY, DIVIDE WHOLE WOULDERS		
ADD, SUBTRACT, MULTIPLY, DIVIDE USING DECIMALS		
ADD, SUBTRACT, MULTIPLY, DIVIDE USING PERCENTAGES		
5 DETERMINE EQUIVALENTS BY CONVERTING FRACTIONS, DECIMALS, PERCENTAGES		
6 COMPUTE AVERAGES USING WHOLE NUMBERS, FRACTIONS, DECIMALS, PERCENTAGES		
7 DETERMINE APPROXIMATIONS BY ESTIMATING, ROUNDING, & JUDGING ANSWER VALIDITY		
8 INTERPRET RATIO AND PROPORTION		
9 INTERPRET DATA FROM GRAPHS AND CHARTS	•	
10 CALCULATE TIME		
11 PERFORM BASIC MEASUREMENT TASKS		
12 USE MEASUREMENT INSTRUMENTS & INTERPRET READINGS		
13 SOLVE MEASUREMENT PROBLEMS IN ENGLISH OR METRIC UNITS		
WRITING COMPETENCIES		
1 PRINT-OR WRITE LEGIBLY		
2 USE STANDARD ENGLISH MECHANICS		
3 RECORD INFORMATION ON WORK FORMS, CHARTS, GRAPHS		
4 WRITE ABBREVIATIONS SPECIFIC TO THE JOB		
5 WRITE INFORMATION IN CLEAR, LOGICAL, & COMPLETE MANNER		
6 TAKE ACCURATE TELEPHONE MESSAGES		
7 WRITE SHORT NOTES AND/OR SIMPLE MEMOS		
WRITE LETTERS USING CORRECT STRUCTURE & SENTENCE STYLE		
PARTICIPANT NAMED	ATE ENTERED_	
COMPANY		



237
BEST COPY AVAILABLE

SKILLS TODAY FOR TOMORROW LEVEL 2 COMPETENCY PROFILE

MATHEMATICS COMPETENCIES 1 WRITE & SOLVE RATIOS AND PROPORTIONS 2 ADD, SUBTRACT, MULTIPLY, DMDE FRACTIONS & MIXED NUMBERS 3 PERFORM OPERATIONS WITH A RULER TO 32NDS OF AN INCH 4 CONVERT FRACTIONS AND DECIMALS 5 SOLVE PROBLEMS IN MATERIAL CONTENT & PRESS SHEET LAYOUTS	ON ENTRY	MASTERY
1 WRITE & SOLVE RATIOS AND PROPORTIONS 2 ADD, SUBTRACT, MULTIPLY, DMDE FRACTIONS & MIXED NUMBERS 3 PERFORM OPERATIONS WITH A RULER TO 32NDS OF AN INCH 4 CONVERT FRACTIONS AND DECIMALS 5 SOLVE PROBLEMS IN MATERIAL CONTENT & PRESS SHEET LAYOUTS		1
1 WRITE & SOLVE RATIOS AND PROPORTIONS 2 ADD, SUBTRACT, MULTIPLY, DMDE FRACTIONS & MIXED NUMBERS 3 PERFORM OPERATIONS WITH A RULER TO 32NDS OF AN INCH 4 CONVERT FRACTIONS AND DECIMALS 5 SOLVE PROBLEMS IN MATERIAL CONTENT & PRESS SHEET LAYOUTS		
2 ADD, SUBTRACT, MULTIPLY, DMDE FRACTIONS & MIXED NUMBERS 3 PERFORM OPERATIONS WITH A RULER TO 32NDS OF AN INCH 4 CONVERT FRACTIONS AND DECIMALS 5 SOLVE PROBLEMS IN MATERIAL CONTENT & PRESS SHEET LAYOUTS		
PERFORM OPERATIONS WITH A RULER TO 32NDS OF AN INCH CONVERT FRACTIONS AND DECIMALS SOLVE PROBLEMS IN MATERIAL CONTENT & PRESS SHEET LAYOUTS		
5 SOLVE PROBLEMS IN MATERIAL CONTENT & PRESS SHEET LAYOUTS		
The second was a consequent of the second se		
6 USE FORMULAS & CONVERSION TABLES TO CONVERT ENGLISH/METRIC MEASURES		
7 DRAW CIRCLES, AND SOLVE FOR RADIUS, DIAMETER, AND CIRCUMFERENCE		
8 CONSTRUCT AND INTERPRET PIE GRAPHS		
9 SOLVE PROBLEMS CONVERTING MEASUREMENTS EXPRESSED IN INCHES, POINTS, AND PICA		·
10 WORK WITH TIME IN MINUTES, FRACTIONS, DECIMALS		
11 USE ESTIMATION/ROUNDING TO SOLVE PROBLEMS		
12 UNDERSTAND THE USES OF STATISTICAL FROCESS CONTROLS (SPC)		
13 DETERMINE RANGES AND MEANS		
14 USE FRACTIONS, DECIMALS, AND PERCENTAGES TO SOLVE PROBLEMS		
15 UNDERSTAND THE CONCEPTS OF RANDOM SAMPLING, VALIDITY, RELIABILITY, AND VARIATION		
16 PLOT DATA ON A GRAPH		
DITION TUNINING/DRODUEN COLVINIO COMPETENCIES	1	
RITICAL THINKING/PROBLEM SOLVING COMPETENCIES		
1 USE APPROPRIATE TOOLS TO ANALYZE & DEFINE A PROBLEM		
2 USE APPROPRIATE TOOLS TO ORIGINATE SOLUTIONS TO A PROBLEM		
3 USE APPROPRIATE TOOLS TO SELECT A SOLUTION TO A PROBLEM		
4 USE APPROPRIATE TOOLS TO IMPLEMENT A SOLUTION TO A PROBLEM		
5 USE APPROPRIATE TOOLS TO EVALUATE A SOLUTION TO A PROBLEM		
COMMUNICATIONS COMPETENCIES	1	
1 LISTEN TO COMPREHEND MESSAGE & FOLLOW DIRECTIONS ACCURATELY		
2 VOCALIZE DIRECTIONS EFFECTIVELY TO OTHERS		
3 READ WORKPLACE MATERIALS TO LOCATE INFORMATION		
4 WRITE TO PASS ON PERTINENT INFORMATION		
5 READ AND FOLLOW DIRECTIONS		
6 RECORD INFORMATION ACCURATELY		
7 VERIFY AND CHECK INFORMATION FOR ACCURACY		
8 SUMMARIZE WORKPLACE INFORMATION IN WRITING		
9 RESPOND APPROPRIATELY ORALLY AND/OR IN WRITING TO WORKPLACE SITUATIONS		



EXHIBIT H



CRITICAL SKILLS ANALYSIS

ask:		
orker Category:		
quipment & Materials Requ Computer Print Calculator	ired: Industry Specific Machine Drafting Supplies Paper/Pencil Other	
Tools	Other	
rocess:		
	<u> </u>	
•		
echnical Terms:		
Problem Areas:		
Safety Considerations: _		

STFT #2 5/16/91



INFORMAL JOB TASK ANALYSIS

Department/Company	Date
,	• .
Interviewee	Interviewer

Job Task	Material	Skills
OOD 188K	uererier	SALLE
·		·
		•
		·
·		
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	241	
STFT #1 5/16/91		
1 10/31		·



LITERACY TASK ANALYSIS WORKER INTERVIEW

- 1. What books, manuals, forms, charts, etc, do you read in order to do your job?
 - -where can we obtain copies of these materials
 - -we will need both completed and blank forms if possible
- 2. Of the materials you read on the job, which are the hardest?
 -how often do you use these materials
 - -how much reading do you actually do on the job
- 3. What reports, memos, summaries, or other written materials do you write or complete for your job? -where can we obtain copies of these materials
- 4. What math skills do you use in your job?
 - -measurements?
 - -calculations?
 - -reading charts, making conversions, etc.
- 5. What special measuring tools do you need to read to do your job?
 - -from rulers to electronic gauges
- 6. What computer equipment or computerized machines and tools do you use in your job?
 - -what kinds of tasks are performed on this equipment -do you need to refer to the manual to use this equipment
- 7. If you were training a new person to do your job, what would that person need to know before you could teach him/her the job?
- 8. What would a new person find most challenging about learning your job?

 -how would you teach someone about your job
- 9. In which parts of your job would you like to improve?
- 10. What skills would you need to learn in order to promoted to a different or better job?
- 11. Are you currently being trained or are you training someone new to do this job?
 - -what is most difficult about the training
 - -do you expect to be going back to school or training in this or another job
 - -which manuals/exercises are the most difficult
- 12. How has your job changed since you first started it?
 -what new skills do you need that you did not need when
 you started on this job



EXHIBIT I



The Carl Didde WorkPLACE™ Program Course Specifications

Course Title On-The-Job Math Computations (Available April 1991)

Course Description

This course focuses on the development of math concepts such as ratio and proportion, estimation, measurements, and the basics of the metric system. It is based on an analysis of the math skills needed in the printing industry. The course uses a state-of-the-art approach by teaching math in a communication-rich environment. Most math is used in the workplace in the context of documents (such as job jackets) and conversations (trouble-shooting). Effective transfer of skills from the classroom to the shop floor is achieved during the course because math problems are presented using printing industry documents, material and lingo, and team problem-solving formats.

Overall Course Goal

The course will enable printing industry employees to use math in a small team context, develop their own definitions for math concepts, and apply the math concepts to sets of problems. Those completing the course will be better able to communicate with other employees about workplace problems that require math, will be more able to tackle math-related problems at work, and will be able to perform calculations more accurately.

Learning Objectives

The course is based on several math applications, each of which has its own objectives.

1. Ratios and Proportions:

At the end of the Ratio and Proportion Unit, participants will be able to:

- * develop ratios from job jacket data (e.g., use paper weight per thousand to price paper by the pound or hundred weight)
- * develop and use formulas for applying a ratio to specific problems
- * solve a proportion with an unknown (e.g., use the weight per carton of finished materials to safely load pallets for shipping)



SKILLS TODAY FOR TOMORROW CRITICAL THINKING & PROBLEM SOLVING

COMPETENCIES

- To use appropriate tools to analyze and define a problem.
- To use appropriate tools to originate solutions.
- To use appropriate tools to select a solution.
- To use appropriate tools to implement a solution.
- To use appropriate tools to evaluate a solution.

SKILLS TODAY FOR TOMORROW CRITICAL THINKING & PROBLEM SOLVING

COURSE OUTLINE

INTRODUCTION

PMI - Plus, Minus, Interesting

STEP ONE: ANALYZE AND DEFINE (D)

FI & FO- Information-In & Information-Out

SF & CF - Simplification & Clarification

AGO - Aims, Goals & Objectives

FIP - First Important Priorities

STEP TWO: ORIGINATE SOLUTIONS (0)

CAF - Consider All Factors

APC - Alternatives, Possibilities, Choices

STEP THREE: SELECT A SOLUTION (S)

C&S - Consequences & Sequel

OPV - Other People's Views

EBS - Examine Both Sides

ADI - Agreement, Disagreement, Irrelevance

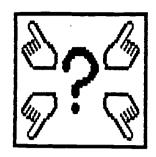
Decisions

STEP FOUR: IMPLEMENT (I)

Planning

Rules

STEP FIVE: EVALUATE (E)



DEFINING THE PROBLEM

90% OF PROBLEM SOLVING IS SPENT:

solving the wrong problem
stating the problem so it
can't be solved
solving a solution
stating problems too generally
trying to get agreement on the
solution before there is
agreement on the problem

A PROBLEM WELL DEFINED IS HALF SOLVED





SKILLS TODAY FOR TOMORROW CRITICAL THINKING & PROBLEM SOLVING

PROJECT 14

The employees in your department have repeatedly complained about a co-worker who has poor personal hygiene. As the supervisor, how would you handle this?



SKILLS TODAY FOR TOMORROW CRITICAL THINKING & PROBLEM SOLVING

PROJECT 15

You work in the Finishing department. The job jacket does not specify whether or not the current job is to be drilled. You know this customer usually requests drilled books. What do you do?



SKILLS TODAY FOR TOMORROW CRITICAL THINKING & PROBLEM SOLVING

PROJECT 18

You have just inspected a 20,000 run job. One signature at the back of the book has bleed tabs. Four of the pages were slightly off center so that when they were trimmed the text in the bleed tabs was cut. Should you accept this lower quality or re-run the 20,000 signature job?

Communications Module

INTRODUCTION

Workplace Communications for Printing is a 48-hour course designed for use in skills training in the printing industry. The course includes a separate unit covering interpersonal communication and listening skills (about 10 hours), and four units in which reading and writing skills are taught together (about 34 hours).

Course materials include the following:

- 1. Original materials and resource sheets for the interpersonal communications unit.
- 2. A textbook, "Reading for Workplace Success," Park, Olson and Oldham, which will be given to each student.
- 3. A textbook, "Writing for Workplace Success," McLean and Lyons, which will be available for classroom use.
- which will be available for classroom use.
 4. Original, printing-related materials for the reading and writing units.
- 5. Student binder.

COURSE PREREQUISITES

- * Students should be able to read and comprehend printingrelated materials.
- * Students should be able to communicate in standard English.

COURSE OBJECTIVES

Upon successful completion of this course, the student will be able to:

- 1. listen attentively in order to comprehend a message and follow directions accurately.
- vocalize effectively directions to others.
- 3. read workplace materials to locate information.
- 4. write to pass on pertinent information.
- 5. read and follow directions.
- 6. record information accurately.
- 7. verify and check information for accuracy.
- 8. summarize workplace information in writing.
- 9. respond appropriately orally and/or in writing to workrelated situations.



COURSE CONTENT

The interpersonal communications component of this course is organized into one unit of five lessons. Using original materials, the instructor presents exercises to illustrate how to more effectively give and respond to information in the workplace.

The reading and writing components are organized into four units which generally parallel the organization of the textbooks. Many of the activities incorporate both reading and writing skills in the same lesson. We believe that writing effectively is just as essential as reading in the workplace and have attempted not to isolate the two components. However, individual reading and writing skills, such as scanning and subject-verb agreement, are addressed as discrete disciplines.

In addition to being integrated, the reading and writing activities will include printing-related materials as much as possible. The lesson format will generally be as follows:

Reading

Introduce lesson objectives
Introduce reading skill to be
practiced
Read, following the model
Develop unfamiliar vocabulary
from context and discuss
Discuss reading objective

Writing

Introduce lesson objectives Introduce writing skill Practice in small groups Analyze as a class Individual skills practice

Homework assignments, in the form of worksheets, may be provided to practice and reinforce the lesson's skills unit. Homework, of course, is always voluntary. For each lesson there is a worksheet covering the writing skill taught in the lesson, and students can also be encouraged to complete the relevant exercises in their reading workbook. The instructor should take a few minutes at the beginning of each class to go over these assignments.



EXHIBIT J





COURSE FOLLOW-UP INVENTORY

COM			DATE	
. —-	IPANY	<u> </u>		
ho	ease answer the for pice. This inform the Skills Today	ation will hel	p us to evaluate	n X over your the effectiveness
•	How well do you	communicate wi	th other people	at work?
	very well	quite well	slightly well	not at all well
: •	How well do you	read English?		
	very well	quite well	slightly well	not at all well
•	How well do you	write English?	•	
	very well	quite well	slightly well	not at all well
•	How well do you	speak English?		
	very well	quite well	slightly well	not at all well
.	How well do you	work with numb	ers?	
	very well	quite well	slightly well	not at all well
	Please mark wit noticed in your changes you may	self since tak	list below any caing classes. Fe	hanges you have el free to add oth
	you	1	Have you	•
	Read more for p		Enrolled	
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EXHIBIT K





COURSE EVALUATION FORM

NEED HELP, ASK THE INSTRUCTOR. _____START DATE__ COURSE TITLE___ LOCATION____ INSTRUCTOR____ Have you reached the goal(s) you set when you started this class? Yes a. No b. Somewhat - List the goal(s) you have not yet met. c. What skill(s) do you think this class has helped you to improve? 2. (You may mark more than one.) ___a. Reading English Speaking English _b. Writing English ___c. Performing arithmetic ___d. Self-discipline (regulating yourself for the sake of ___e. improvement) Self-motivation (causing yourself to act) f. None of these skills ___g. If you have improved other skills, please list:_____ h. In relation to your goal(s), was this class helpful for you? 3. I don't definitely probably probably definitely know not not yes yes Do you think that the skills you learned in this class will help 4. you to do your job better? I don't definitely probably probably definitely know not not yes yes Was the instructor well-informed about the material presented in circ. 5. I don't probably definitely probably definitely know not not yes yes

PLEASE ANSWER THE FOLLOWING QUESTIONS BY MARKING AN X ON THE BLANKS. IF YOU



6. Was the instructor(s) helpful to you?

definitely probably probably definitely I don't yes not not know

7. Was the instructor sensitive to students?

definitely probably probably definitely I don't yes not not know

8. Were the methods of teaching helpful to you?

definitely probably probably definitely I don't yes not not know

9. Would you recommend this class to a co-worker or friend?

definitely probably probably definitely I don't yes not not know

10. As a result of taking this class, would you take another adult education class if it were offered at this location?

definitely probably probably definitely I don't yes yes not not know

11. As a result of taking this class, would you take another adult education class if it were offered at a different location?

definitely probably probably definitely I don't yes not not know

12. Having taken this class, do you intend to take other classes?

definitely probably probably definitely I don't yes not not know

_a. _b.	Other Skills Today for Tomorrow Classes
D.	GED classes to earn high school diploma
_	Credit college classes
	Non-credit college classes
	Technical training classes (printing)
_ _f.	Adult Basic Education classes
_g .	I don't know
_h.	Other - Please list
t was	MOST valuable to you in this class?
t was	LEAST valuable to you in this class?
70u	ld you recommend to improve this class?
	_g. _h. it was



EXHIBIT L

Skills Today for Tomorrow Supervisor Survey

Note: Please darken or place a check mark ✓ in the appropriate box or record your written response as indicated.

Site Location ① Oles Envelope Corporation ② The Oscar T. Smith Company ③ McGregor Printing Corporation ④ Automated Graphic Systems ⑤ York Graphic Services ⑥ Dick Wildes Printing ⑦ Garamond						
Instructions: For the above-named employee you supervise who participated in the Skills Today for Tomorrow work-based education conducted by Catonsville Community College, please indicate whether you Strongly Agree, Somewhat Agree, are Neutral, Somewhat Disagree, or Strongly Disagree with each of the following statements. Responses will be aggregated to ensure confidentiality. The results of this document should not be used as part of the employee's performance evaluation. Thanks for your cooperation. After participating in the program Strongly Somewhat Somewhat Strongly						
	Agree	Agree	Neutral	Disagree	Disagree	
The employee is better able to read and understand complex written instructions.	٥			0		
2. The employee can write messages to		,				
the supervisor and co-workers.						
3. The employee is better able to accept		. 🗅				
increased responsibilities. 4. The employee is absent less		• •	_	_	_	
frequently.						
5. The employee's capacity to learn tasks						
has improved.	<u> </u>		<u> </u>			
6. I don't have to repeat instructions to	_	_	_	-	_	
the employee as much as I used to.						
7. The employee's desire to learn more about the company has increased.				Q		
8. I worry less about the employee	_	_	_			
getting hurt than I did before the program.						
9. I don't need to spend as much time helping the employee with simple calculations and reading instructions.	<u> </u>	0	0	0		
10. The employee seems more confident in what he/she is doing.				٥		
		moloveo:				
Please record any special comments regar	uing the ei	mpioyee: 				



Evaluation

Skills Today for Tomorrow Advancing a Workplace Literacy Consortium for the Printing Industry

Submitted To:

Catonsville Community College 800 South Rolling Road Catonsville, MD 21228

Prepared By:

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15 Herndon Ave.,
Annapolis, MD 21403

April, 1995

A. Introduction

CCC was awarded a grant under the National Workplace Literacy Grant Program to expand its model program and curriculum in other regions of Maryland and Southern Pennsylvania in 1993. The 18 month project continued to address the workplace literacy needs in the printing industry through two components. The *first component* focused on offering instruction at Baltimore area printing companies not previously involved in the basic skills programs. Curriculum was further refined, and a videotape highlighting the program and the literacy problem in the printing industry was developed as a recruitment and promotional tool.

The second component focused on expanding the program model and curriculum to the printing industry outside of Baltimore. Partnerships between community colleges and were formed. CCC worked with community colleges to help them establish workplace literacy programs at printing companies in their service areas. The objective of this component is to make Skills Today for Tomorrow accessible to printing companies through Maryland and southern Pennsylvania.

B. Purpose

The purpose of this evaluation was to conduct both a process and outcome evaluation of the **Skills Today for Tomorrow** program funded under the National Workplace Literacy Grant Program in 1993. The intent of the process evaluation was to assess whether or not



the program was implemented and operated as stated in its goals and objectives. A process evaluation was completed, and the program is operating well; however, the results are not reported herein. The questions addressed in this evaluation report focus on the program's short-term objectives of increasing participants' literacy competency levels and post-program educational plans and job status.

C. Methodology

Design. A quasi-experimental design was used in the evaluation of the Skills Today for Tomorrow program. Quasi-experimental designs are used when wholly random assignments are not possible. Because participants in the program were volunteers, this design was the most appropriate. Pretests-posttesets were used with single groups of individuals, and the mean differences were tested for significance between groups.

Sample. The data evaluated in this reported is based on a total sample size of 114 program participants. The table below displays the number of participants by the different companies involved in the project.

Table 1. Printing Companies Participating in the Project

Company	. N
Advantage Printing	19
Automated Graphic Services	9
Catterton Printing	5
Garamond	7
McGregor Printing Corporation	31
Oles Envelope Corporation	29
The Oscar T. Smith Company	9
York Graphic Services	5
To	otal 114

Instruments. The CASAS instrument was used to assess gains in reading and mathematics. In addition, program participants were also assessed by teachers in the following competency areas: reading, mathematics, and writing. Participants completed a Participants Data Form that was used to gather the following type of data: (a) demographic characteristics, work history, and educational experience; (b) reasons for entering the program; and (c) willingness of participants to perform basic literacy tasks. Information regarding the participants' plans for further education and job status following the program was also collected. A Supervisor's Rating Form was also created to determine supervisors' opinions about changes in participants behavior as the result of involvement in the program.



Skills Today for Tomorrow

Data Collection. Data were collected from individuals involved in this evaluation using the measures discussed as both pretests and posttests, Participant Data Form and Supervisor's Rating Form. CCC staff were responsible for all data collection.

Data Analysis. Several statistical tests were conducted for the present evaluation. Simple means and percentages were calculated for the demographic, work history and educational experience data as well as other rating scale data; e.g., supervisors' ratings. For the pretest-posttest data, the *t* test procedure for matched samples was used to compare the means between groups for gains in basic reading, math and writing literacy.

D. Background Characteristics

Table 2 below displays the background characteristics of participants. These data show:

- 71 percent of the participants were white, 29 percent African-American.
- The typical participant was 37 years of age.
- 82 percent of the participants were male, 18 percent were female.
- 53 percent had obtained a high school diploma, 25 percent of the participants had not completed more than 11 years of schooling, 17 percent had some college, but no degree, and 5 percent attended trade school.

Participant's work history is shown in Table 3 below. These data show that participants have considerable work experience as indicated below:

- 92 percent of the participants has worked 10 years or more, however only 43 percent have worked in the printing industry for 10 years or greater.
- 24 percent of the participants have worked for the current employer (printing industry) for 10 years or more.



Table 2. Characteristics of Participants (n=114)

Characteristics	%			
Ethnicity				
White	71%			
African-American	29%			
Age				
Average Age	37			
Gender				
Male	82%			
Female	18%			
Highest Level of Education Completed	1			
<8 years	8%			
9 to 11 years	17%			
H.S. Graduate	53%			
GED Diploma	0%			
Trade School	5%			
Some college, no degree	17%			

Table 3. Work and Related History of Participants (n=114)

	Work Experience	Experience in the Printing Industry	Employment with Current Employer
<one td="" year<=""><td>0%</td><td>13%</td><td>22%</td></one>	0%	13%	22%
one to two years	2%	20%	24%
two to five years	6%	25%	30%
five to ten years	20%	0%	0%
ten to fifteen years	22%	11%	9%
over fifteen years	70%	32%	15%

E. Reasons for Entering the Program

Table 4 provides a breakdown of the reasons for the entering the program that participants cited. Improved job performance was reported by 92 percent of the participants as the reasons for entering the program. Basic writing, reading, and number skills were reported by about 75 percent as the reason for entering.

Table 4. Reasons for Entering the Program (n=114)

Reason	%
To do better on my job	92%
To learn to write better	79%
To learn to read better	76%
To learn to work with numbers better	75%
To learn to speak English better	71%
To get ready for other classes or training	71%
To make more money	70%
To be able to help my children with their school work	69%
To get promoted	67%
To get ready for a different job	64%

As a way of determining what literacy skills the participants were able to perform, the participants were asked to rate how willing they were to do 9 basic tasks. Table 5 graphically presents the distribution of participant ratings. In general, the finding of this analysis indicates that participants reported being confident in performing simple tasks (e.g., add or subtract a column of numbers, compare prices from a newspaper ad, etc.). However, only 37 percent of the participants were willing to write a note to the boss, 44 percent compute with fractions and decimals, 54 percent read newspapers or magazines, and 60 percent divide the cost of a shared purchase. These findings suggest that program participants were most in need of writing and basic mathematics computational skills involving fractions and decimals.

F. CASAS Pretest and Posttest Results

There were statistically significant gains in literacy by program participants after instruction as exhibited in Table 6. The mean scale score on CASAS for math was 216.24 on the pretest and 228.9 on the posttest (p=.001). Likewise, the mean scale score for reading increased from 221.2 on the pretest to 228.6 on the posttest (p=.005). However, it must be noted that these results are preliminary since they were produced from matched samples of 15 participants on the math test and 16 on the reading test.



Table 5 Participants Willingness to do Simple Tasks

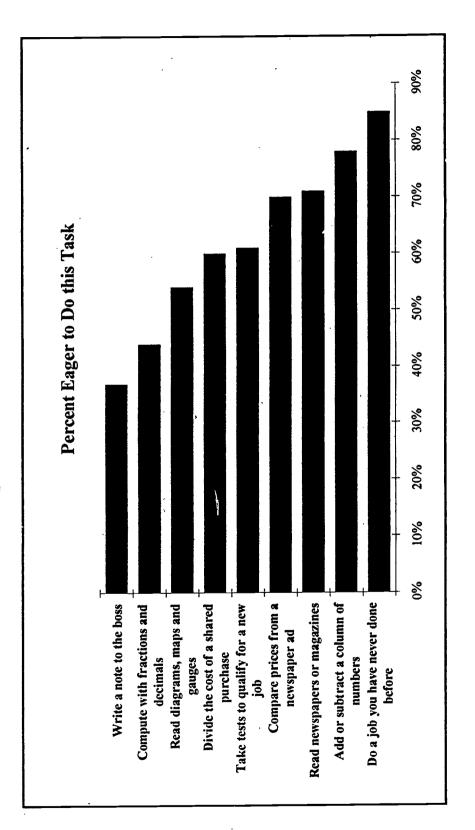


Table 6. Literacy Gains for Program Participants using Pre-and Post-CASAS Scores

•	N	Mean Scale Score	t Value	Probability (two-tailed)
Pre-Math Total	15	216.24		
Posí-Math Total	15	228.91		
	,		-3.865	0.001
Pre-Read Total	16	221.21		
Post-Read Total	16	228.61	-3.174	0.001

Table 7. Literacy Gains for Program Participants using Pre-and Post-Number of Competencies Mastered

	N	Mean Competencies	t Value	Probability (two-tailed)
Pre-Read Total	24	2.04		
Post-Read Total	24	6.46		
			-6.159	0.001
Pre-Math Total	26	2.04		
Post-Math Total	26	8.08	-8.789	>.001
Pre-Write Total	14	2.29		
Post-Write Total	14	4.35	-3.867	0.001

G. Competencies Mastered

Program participants also demonstrated statistically significant number of competencies mastered as determined by analysis of program records completed by instructors as exhibited in Table 7. Participants mastered significantly greater number of reading (p=.001), mathematics (p>.001), and writing (p=.001) competencies. However the paucity of data prevents generalizing the data beyond the group evaluated.

H. Future Plans

Table 8 shows the findings from the evaluation that assessed the impact of the program on the educational plans and job status of program participants. The data below strongly



suggest that the program had a substantial effect on the educational plans of participants. Slightly more than half (55%) of the participants plan to enroll in further education related to the printing industry and 16 percent plan to enroll in non-print related education. In total, 71 percent of the participants plan to enroll in some type of further education.

However, it is somewhat disappointing that only nine percent of program participants who completed the program will earn additional compensation and/or higher level job responsibility. These results indicate that improvement in participants literacy skills had a positive impact on their educational aspiration but little on immediate earnings capacity or increased job responsibility.

Table 8. Future Educational Plans and Employment Status

further education? (n=56)	
Enroll in further education related to the printing industry.	55%
Enroll in further education not related to the printing industry.	16%
No plans for further education.	29%
	of
concerning job advancement and/or compensation as the result	of
concerning job advancement and/or compensation as the result (training? (n=51)	of 6%
Which of the following best describes the participant's status concerning job advancement and/or compensation as the result training? (n=51) Additional and/or higher level job responsibilities Additional compensation	

I. Supervisors' Ratings

The last findings to be reported from this evaluation assessed supervisors' ratings of program participants. Supervisors were asked to state whether they strongly agreed, somewhat agreed, were neutral, somewhat disagreed, or strongly disagreed with statements found in Table 9. Analysis of these findings suggest that the program had a positive impact on non-cognitive factors such as participants confidence level, ability to accept responsibilities and desire to learn as reported by over 70 percent of the supervisors. Nonetheless, only 47 percent of the supervisors reported that participants were better able to read, understand and write messages. Generalizing these findings beyond the group evaluated is restricted due to the small number of ratings analyzed.



Table 9. Supervisor's Ratings (n=17)

Agree with the following statements	
The employees seems more confident.	88%
The employee is better able to accept responsibilities.	71%
The employee's desire to learn more has increased.	71%
The employee is absent less frequently.	53%
The employee's capacity to learn complex tasks has improved.	53%
I don't have to repeat instructions.	53%
The employee is better able to read and understand.	47%
The employee can write messages.	47%
I don't need to spend as much time helping the employee.	47%
I worry less about the employee getting hurt.	41%

J. Conclusions

Participants in this evaluation appear to be making statistically significance gains in literacy skills in reading, math and writing during the program. Seventy-one percent (71%) of the participants have plans to continue their education upon completion of the program. The evaluation also indicated, however, that the program had little positive impact on program completers immediate earnings and increased job responsibility. Supervisors felt that the program contributed to participants increased confidence level, desire to learn, and ability to accept responsibility. Due to the relatively few number of cases available for many of the statistical analyses the findings and conclusions in this report should be viewed as tentative and preliminary.

