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ABSTRACT

As part of a multiphase study of Job Corps vocational education offerings and outcomes during fiscal year 1982, a study examined Job Corps efforts and procedures for identifying high growth occupations. Using input from the U.S. Bureau of Labor Statistics, researchers identified high growth occupations for which the Job Corps is either currently not providing training or is providing training to fewer than 25 corpsmembers. Based on their study, the researchers recommended that the Job Corps provide additional training for the following occupations: word processing machine operators; data entry operators; billing machine operators, proof machine operators, and payroll clerks; business machine repairers; production painters; emergency medical, surgical, and X-ray technicians; computer operators; and computer service technicians. (Included in this guide are training consideration sheets for each of these occupations, consisting of discussions of job duties, employer hiring requirements and preferences, training information, and job outlook.) (MN)

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VOCATIONAL EDUCATION OFFERINGS REVIEW

Documentation Report No. 3

Assessing Training Requirements for High Demand Occupations Suitable for Job Corps

September 1983

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Documentation Report No. 3

Assessing Training Requirements for High Demand Occupations Suitable for Job Corps

Table of Contents

	70			· · · /	Page
					. 2
I. Introduction					
II. Methodology				• • • • • • •	. 2
	3		oration, a	s tob	-
Occupations Recommended Corps Training Offer	ings	ner consid	eracion a		8
	***	13.		 	
Word Processing Machine	Operator			<u> </u>	. 10
Data Entry Operator Billing Machine Operator	r Proof				
Same Control of the Control of the Control	17 07 0 -1		44.2		
Business Machine Repair Production Painter	rer		<u>,</u>	• • • • • • • • • • • • • • • • • • • •	. 20
Production Painter					· 24
Emergency Medical Technician	ilcian				. 29
Surgical Technician			•••••	A	. 32
Computer Operator					. 38
Computer Service Techni	ician				
IV. Occupations Which Could	Not Be	Recommended	Due to I	nadequate	e $_{-}^{$
Data			• • • • • • • •		. 51
	S.		17.55		
Test Tables			V.		
Table A Occupations Recon	mmended fo	r Further	Considera	tion As	<u>.</u> .
Job Corps Tra	ining Offe	rings	•••••		• 5 _;
Attached Table		5		·	,
	5 J 77	• 2)
Table III-A OES and Relat	ted D.O.T.	. Titles in	Which Jo	b Corps/	í s

Currently Not Training or in Which Job Corps is Providing Training to Fewer Than 25 Individuals

Documentation Report No. 3

Assessing Training Requirements For High Demand Occupations Suitable For Job Corps

i. Introduction

This report identifies high growth occupations in which, according to the Job Corps Management Information System. Job Corps is either currently not providing training, or is providing training to fewer than twenty-five corpsmembers. It also provides an assessment of the training requirements of those occupations that appear to be feasible for Job Corps training in the future.

II. Methodology

The following steps were taken to identify occupations that were projected to grow faster than the average during the 1980's. The first step was to select criteria that could be used to identify those occupations suitable for Job Corps training.

A panel from the U.S. Bureau of Labor Statistics was asked to select specific criteria that could be used to identify high growth occupations suitable for Job Corps training. The panel considered projected absolute growth, projected percentage growth, and the labor market information in the Occupational Outlook Handbook as valid and useful criteria for the task of selecting new occupations. Recent unemployment rates and wage and salary information were considered important but less critical for the entry level positions that Job Corps trainees will occupy. Another important source of information chosen by the panel was projected job openings and replacement needs from

the Occupational Projections and Training Data 1982 supplement to the 1982-83 Occupational Outlook Handbook. However, since that publication provided information on only about 30 occupational areas relevant to the Job Corps population, it was determined not to be appropriate for this task.

Second, a list of possible occupations was developed. These occupations were selected from the list of occupational titles in Documentation Report No. 2. Table II=B-2, using the following criteria.

- 1. Job Corps is either currently not training in the occupation or is providing training to fewer than 25 corpsmembers.
- The occupation is projected to experience an absolute increase in employment of 10,000 or more between 1980 and 1990.
- 3. The occupation requires a language level of twelfth grade or less.
- The occupation requires two years of training or less.

The list in Table II-B-2 in Documentation Report No. 2 screened out OES titles which had no D.O.T. titles meeting the criteria in items 3 and 4 listed above.

The attached Table III-A provides a list of the sixty-one occupations which meet the criteria plus the following specific information about each occupation: (1) Occupational Employment Survey (OES) number; (2) OES job title and related Dictionary of Occupational Title (D.O.T.), (3) D.O.T. code, (4) projected absolute employment change, (5) projected percent employment change, (6) language (grade) level required, (7) a code representing length of

training required, and (8) a code representing suitability of the occupation for Job Corps training. (The keys to the codes for columns 7 and 8 are listed at the end of the table.)

Third, each possible occupation was evaluated using the

following criteria:

- Absolute change in the number of persons employed in the occupation is projected to increase 10,000 or more by 1990.
- 2. Percent growth, projected from 1980 to 1990, is projected to be at least 18.5% (the average national percentage growth for all occupations);
- 3. The occupation requires an educational level of high school or less.
- 4. The occupation requires a training time of two years or less.
- 5. Employer hiring practices, including age require— ments and preferred education and training levels, are commensurate with corpsmember experience.
- 6. The occupation was recommended by a panel of Job Corps employees who have knowledge of corpsmembers and of current Job Corps vocational training programs.

selected for further consideration as new Job Corps training offerings. The list of these twelve occupations appears in Table

An occupational fact sheet was developed for each occupation relected for further consideration. It includes information on:

- (1) job duties. (2) employer hiring requirements and preferences.
- (3) training information, (4) job outlook, (5) salary, and (6) selected training competencies.

TABLE A

OCCUPATIONS RECOMMENDED FOR FURTHER CONSIDERATION AS JOB CORPS TRAINING OFFERINGS

CLERICAL AND SALES CLUSTER .

Word Processing Machine Operator

203.362.022 Word Processing Machine Operator

2. Data Entry_Operator

203-582-026 Data Entry Operator

Bookkeeping

a. Billing Machine Operator

210.382.022 Machine Operator 1 210.382.026 Machine Operator 2 214.482.010 Billing Machine Operator

Increase = 35,128 Percentage = 19.9%

b. Payroll Clerk

215.382.010 = Payroll Clerk, Data Processing 215.482.010 Payroll Clerk

Increase = 35,129 Percentage = 18.1

c. Proof Machine Operator

217.382.010 Proof. Machine Operator

Increase = 12,304 Percentage = 25.9%

B. OFFICE MACHINE REPAIR

1. Office Machine Repair

633.281.018 Office Machine Servicer, Apprentice 706.381.030 Typewriter Repairer

Increase = 31.988 Percentage = 62.4%

C. INDUSTRIAL PRODUCTION

1. Production Painter

Increase = 23.654 Percentage = 21.8%

D. HEALTH OCCUPATIONS

1. Emergency Medical Technicians

079.374.010 Emergency Medical Technician

Increase = 22,000 Percentage = 18.5

2. Surgical Technician

079.394.022 Surgical Technician

Increase = 12,340 Percentage = 39.4%

3. X-Ray Technician

078.362.026 Radiologic Technologist

Increase = 33,909 Percentage = 37.2%

- E. POTENTIAL HIGH TECHNOLOGY ADDITIONS TO JOB CORPS
 - 1. Computer Operator and Peripheral EDP Equipment
 Operator

213.362.010 Computer Operator

Increase = 132,170 Percentage = 71.7%

213.382.010 Computer, Peripheral Equipment Operator

Increase = 77,296 Percentage = 44.1%

2. <u>Data Processing Machine Mechanic</u> (Computer Service Technicians)

828.281.010 Electronics Mechanic,

828.281.014 Electronics Mechanic/Apprentice

Increase = 77,296 Percentage = 93.4%

The information contained in categories 1 through 5 was obtained from the 1980 81 and 1982 83 editions of the Bureau of Labor Statistics. Occupational Outlook Handbook. Category 6 was extracted from occupational catalogs developed by the Vocational Technical Education Consortum of States (V-TECS) or from Industry guidelines.

V-TECS, is a cooperative effort among eleven states and three associate agencies to develop worker-validated catalogs of performance objectives and performance guides in selected areas of occupational education, Member states include Alabama, Florida, Georgia, Illinois, Kentucky, Maryland, Michigan, Pennsylvania, South Carolina, Virginia, and West Virginia. The Community College of the Air Force, the Training and Doctrine Command, and the U.S. Naval Education and Training command have associate membership with the Consortium.

Member states of V=TECS conserve money and time and avoid unnecessary duplication of efforts by combining resources and working together for mutual benefit. Uniform procedures and guidelines are used to insure confidence and promote transportability of products among states. The basic procedures followed in catalog development consest of:

- 1. Conducting state-of-the-art study.
- 2. Developing occupational inventory (writing team involvement)
- 3. identifying the population.
- Conducting occupational survey.
- 5. Analyzing survey data.

- 6. Converting task statements into performance objectives and performance guides (writing team involvement).
- 7. Conducting review of catalog.

The development of catalogs of performance objectives and performance guides through a consortium framework is a unique effort to share services, technology, and resources. Well-trained students who will be the work force of tomorrow are the ultimate goal of this Consortium endeavor.

III. Occupations Recommended for Further Consideration as Job Corps Training Offerings

The occupations listed in Table A are recommended for further consideration as Job Corps thaining offerings. The list is not large because Job Corps is already providing training in most of the high growth areas which suit corpsmember ability levels.

In light of the training requirements and of on-going Job Corps training, it is suggested that the occupations of Office Machine Repair, Production Painter, Computer/Peripheral EDP Equipment Operator and Computer Service Technician should be taught as discrete courses. Billing Machine Operator, Proof Machine Operator and Rayroll Clerk could be added to existing bookkeeping programs and word processing and data entry training could be taught as an extension of the other clerical programs.

Specific recommendations for possible methods of implementing these occupations in the Job Corps setting are contained in Documentation Report No. 6. Several of the programs will require contracting training to other institutions. Others programs may be conducted on center. In all cases, center personnel must determine the feasibility of conducting a new training program at their particular site. To determine feasibility, the following questions should be answered:

- 1. What employment opportunties currently exist in the area?
- 2. What are the employment projections for the next five years?
- 3. Will the training program qualify workers for these employment opportunities?
- What reading, language and math prerequisite skills are required for training?
- 5. How many corpsmembers qualify for the program (meet skill requirements, show aptitude for the occupation, and are interested in training for the occupation)?
- 6. How many corpsmembers would be projected to participate in the program in subsequent years?
- 7. Can a qualified instructor be obtained for the program?
- 8. What competencies are to be taught in the program?
- 9. Can necessary equipment be obtained?
- 10. Can classroom space be obtained?
- 11. 'Can on-the-job experience be easily obtained?
- 12. Will the program meet state licensing requirements?
- 13. Will the program prepare corpsmembers for employment in other localities?
- 14. What is the anticipated program cost?
- 15. What is the anticipated program placements?
- 16. Will placements justify the cost?

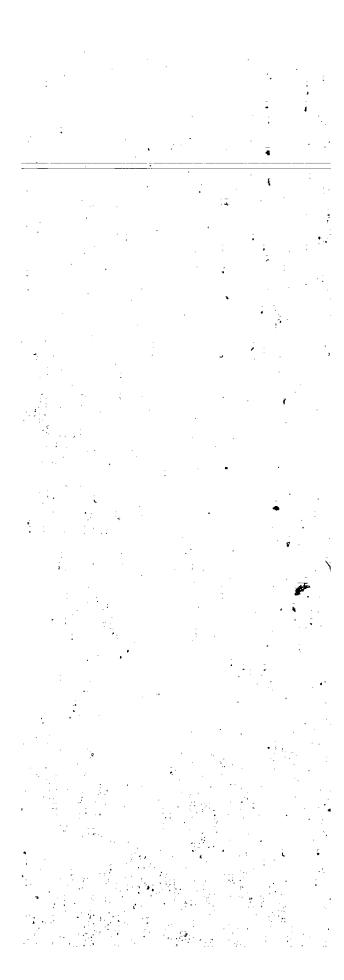
The fact sheets for each occupation appear in the following pages.

TRAINING CONSIDERATION: Word Processing Machine Operator

DOT: 203.362.042

JOB DUTIES:

Word processing machine operators utilize clerical skills to -use word processing equipment to record, edit, store and revise correspondence, reports, statistical tables, forms and other materials. They read instructions to determine procedures to be followed regarding material to be prepared or revised and required format for finished copy. They depress keys on word. processing equipment to adjust controls for spacing margins and tabulation, and place tape cassette, diskette or other magnetic recording medium in holder. They also keyboard (type) original material into machine memory, typing from printed copy, machine dictation or related sources. Word processors read proof copy of material entered into machine memory and depress keys to correct typographical errors, print out final copy and record material onto magnetic medium. They locate medium in file when revisions are required, place medium in holder and press keys to insert (type), delete, correct, reposition or reformat designated material. They may operate equipment that extends word processing capabilities, such as cathode ray tube displays (CRT's), single or multiple printers or optical character recognition (OCR) equipment. Important variations in the occupation are the kinds (trade names) of word processing equipment operated.





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EMPLOYER HIRING REQUIREMENTS AND PREFERENCES:

Many employers prefer clerical applicants with word processing experience; some require it. In addition, most employers require a typing speed of at least 45-55 words per minute. Good spelling, punctuation and grammar are also important skills for word processing machine operators.

TRAINING INFORMATION:

Word processing is currently taught, in virtually all secretarial schools and vocational schools offering clerical training.

Word processing systems do differ, but an individual who has experience with one system can usually adapt to a new one.

SALARY:

According to a 1980 American Management Association survey, a senior word processor's average salary was \$11,596 per year.

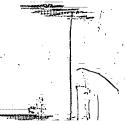
JOB OUTLOOK:

Very good job prospects are expected during the coming years for typists who can use word processors. Just as the electric typewriter superseded the manual typewriters, word processors are now becoming standard office equipment.

COMPETENCIES:

Transcribe information from recorded media
Set up work station
Insert diskettes
Create files
Prepare document format for file
Keyboard reports
Keyboard correspondence
Keyboard addresses into master mailing list
Copy files
Merge files

Insert material into file
Delete material from file
Replace material in file
Correct malfunctioning program
Correct errors (edit file)
Locate information on diskette
Print document
Print addresses onto mailing media
Change print wheel
File diskette



TRAINING CONSIDERATION: Data Entry

DOT: 203.582.026 Data Entry (Data Coder Operator)

JOB DUTIES:

Data entry personnel operate machines with keyboards to transcribe data onto magnetic tape or disks for computer input. They examine codes on forms and source documents to determine work procedures. Data entry operators set switches and press keys which generate impulses onto tape or disks to record data from forms and documents. The operators observe the machine to note error indications and press keys to make corrections, remove the disk and route with source documents for computer processing.

EMPLOYER HIRING REQUIREMENTS AND PREFERENCES:

Employers in private industry usually require a high school education. Data entry personnel are often tested for their ability to work quickly and accurately. Data entry operators should be able to work under supervision and as part of a team. They must feel comfortable working with machines and doing repettitive, organized tasks.

TRAINING INFORMATION:

Data entry courses are currently being offered in vocational schools with clerical training. These programs usually last from three months to one year and include training in keyboarding, typewriting, recordkeeping/filing, business math and data entry labs. Since corpsmembers are also enrolled in basic education, a Job Corps data entry program would last approximately two to three months longer.



SÄLÄRY:

According to 1980 Occupational Outlook Handbook data the earnings of data entry operator trainees employed in private industry averaged about \$200 a week. Those with experience earn slightly more.

JOB OUTLOOK:

Changes in data processing technology will have differing effects on computer operating occupations. The Bureau of Labor Statistics' national projections indicate that keypunch operators will experience a decline of 31,000 between 1980 and 1990. Data entry D.O.T. codes, as well as keypunch operators—codes were included under the OES Keypunch Operator heading is the national projections. However, BLS personnel indicated that the data entry codes were experiencing growth and that the great decline of keypunch operators placed the entire group of D.O.T. codes in negative position.

COMPETENCIES:

Performing Data Control Functions

Prepare documents and batch tickets for data entry
Receive data from remote unit
Copy data
Check out tapes or disks from library
Prepare keyed job documents for return to supervisor
Recover data after incorrectly removing tape or diskette
Recover data after power failure
Perform emergency shutdown procedures

Entering and Verifying Data

Set up work station
Prepare key entry program for off-line data entry device
Enter data from source documents (with or without program control)
Enter data from optical character recognition (OCR)



Modify records Correct data entry errors Search tape, disk, or diskette for Transmit data Terminate operation Verify and correct data

TRAINING CONSIDERATION: Expand Bookkeeping to include Bookkeeping Machine Operators, Billing Machine Operators, Proof Machine Operators, Payroll Clerks, and Payroll Clerks, Data Processing

DOT:	210.382.022	Machine Operator 1
	210.382.026	Machine Operator 3
	214.482.010	.Billing Machine Operator
	217.382.010	Proof Machine Operator
	215.382.010	Payroll Clerk, Data Processing
in the second	215.482.010	Payroll Clerk

JOB DUTIES

Bookkeeping clerks and machine operators prepare records of the financial transactions of an establishment. Bank clerks have duties unique to the banking industry. They may specialize in a particular job in large banks, while in a small bank they may perform several jobs. Many bank clerks operate office machines unique to banking.

Bookkeeping machine operators run electronic posting machines to record financial transactions. In many cases, these individuals now enter data directly onto computer terminals. Proof machine operators use equipment that sorts eneck and deposit slips, adds the amounts, and records the tabulations. Proof machine operators may also use electronic check sorting equipment, such as magnetic ink character readers.

Payroll clerks compute wages and post wage data to payroll records using either computers or calculators and posting machines. They also record and verify information upon which wages are paid and then prepare payroll checks.

EMPLOYER HIRING REQUIREMENT AND PREFERENCES:

High school graduation is considered adequate academic preparation for most bookkeeping clerk and machine operator jobs.

Coursework in bookkeeping, typing, business arithmetic, office machine operation, and data entry is preferred. Applicants may be given tests to determine their ability to work quickly and accurately. Individuals should be able to work as part of a team and accept supervision.

TRAINING INFORMATION:

Additional education -- either college courses or specialized courses in bookkeeping or banking -- may help clerks advance. The American Institute of Banking offers such courses and has over 400 chapters in cities across the country.

JOB OUTLOOK:

Bookkeeping clerk occupations are expected to grow faster than the average for all occupations through the coming decade. Replacement needs are high plus employment opportunities are being created as a result of industry growth. In addition, clerical skills needed in bookkeeping clerk jobs are transferable to many types of financial and other institutions.

COMPETENCIES:

The following competencies are taken from the V-TECS catalog of Performance Objectives for Bookkeeping/Accounting/Payroll Clerk functions:

Recording Entries in Journals and Ledgers

Post to ledgers using general purpose accounting machine Record accounting entries for cash payments Record accounting entries to adjust accounts

Record accounting entries for buying merchandise on account Record accounting entries using pegboard: Record accounting entries in combination journal : Record accounting entries pertaining to notes and interest Record accounting entries pertaining to payroll tax Record accounting entries pertaining to sales tax Record accounting entries pertaining to accrued income and accrued expense Post ledger accounts from journals Record accounting entries pertaining to corporation income Record accounting entries for selling merchandise on account Record accounting entries pertaining to payroll Correct errors indicated by trial balance Post cost ledger from cash disbursements and accounts payable journal Receipt checks and cash sales

Accomplishing Periodic Accounting/Reporting Activities

Prepare invoices for payments due Take inventories

Accomplishing General Accounting Related Activities

Prepare accounting data for computer processing
Process accounts payable invoices
Prepare reconciliation correction sheets for changes to
computer-generated reports.

Type tabulated material
Record discounts allowable on invoices
Fill out purchase invoices
Record daily sales on unit control forms
Enter data via computer terminal
Prepare bill of sale
Prepare insurance forms
Develop instruction for other employees

Accomplishing Payroll Activities

Prepare employee's form W-2
Prepare employer's quarterly federal tax returns (Form 941)
Prepare employer's annual reconciliation reports of income
tax withheld (Forms W-3)
Prepare payrolls using manual system
Prepare payrolls using computer system
Prepare individual employee's earnings records
Prepare salespersons' commission statements
Prepare payroll statements
Prepare wage checks
Prepare federal tax deposits
Prepare state unemployment tax return
Operate proof machine to sort, record, and prove records of bank transactions
Operate magnetic ink character reader (MICR)

Accomplishing Activities Related to Banking

Accomplishing Clerical-Related Activities

Reconcile bank statements

Make bank deposits

Replenish cash funds

Prove petty cash using register totals

Process checks

Pay bills

Handle Visa, Master Card, and American Express deposits

Make copies using typewriter
Process outgoing mail
Process incoming mail for distribution
Set up new files
Look up data using reference books/manuals
File materials using alphabetical and numerical filing
system

TRAINING COMSIDERATION: Business Machine Repairers

DOT: 633.281.018 Office Machine Service Apprentice

706.381.030 Typewriter Repairer

JOB DUTIES:

Business machine repairers maintain and repair machines that are used to process paperwork; they include typewriters, adding and calculating machines, cash registers, dictating machines, postage meters, and duplicating and copying equipment. They make regular visits to customers offices and stores for preventive maintenance visits. When machines break down, the repairer goes to the place of business, examines the machine, determines the cause of the malfunction, and makes the repair. Occasionally, the machine may have to be taken back to the shop for service.

Business machine repairers usually specialize in one type of machine, although repairers who work for small shops must be able to work on equipment from various manufacturers.

EMPLOYER HIRING REQUIREMENTS AND PREFERENCES:

The amount of formal education required for entry jobs varies. Some employers hire applicants with a high school education, while many others require at least one year of technical training in basic electricity or electronics. Applicants for entry jobs may have to pass tests that measure mechanical aptitude, knowledge of electricity, and general intelligence. Good eyesight and hearing are also needed.

Employers look for applicants with a neat appearance and the ability to get along well with others. Repairers must be able to work without direct supervision. They must be able to set and



meet customer maintenance schedules. Some employers, require that repairers be bonded, since they may be exposed to large sums of money.

TRAINING INFORMATION:

Repairers who work in small shops are expected to be familiar with the most common types of office machines. A new hire works under the supervision of an experienced repairer and is provided on-the-job training and in some cases may receive self-study courses. Manufacturers provide more structured training programs lasting from several weeks to several months. Trainees work from one to three years before becoming fully qualified repairers. Training in electricity and electronics may be gained at a vocational school or community college.

SALARÝ:

In 1980, trainees earned about \$180 a week. Individuals. With previous electronics training may receive higher, beginning wages than high school graduates. Expenienced repairers earn from \$200 to \$250 a week, while highly skilled individuals who work on several different machines may earn \$300 to \$350 a week.

JOB OUTLOOK:

much faster (absolute change of 31,988, percent increase 62.4)
than the average for all occupations through the 1980's. Employment opportunities for qualified beginners are expected to be
excellent, especially for those with training in electronics.

COMPETENCIES

Operating A Repair Facility

Process repair work

Requsition supplies and parts
Calculate repair costs

Update parts catalog

Update service manuals

Maintaining and Repairing Typewriters

Adjust aligning scales Adjust backspace Adjust bichrome mechanism Adjust carriage return Adjust for proper tilt Adjust feed rolls Adjust index mechanism Adjust keybroad selection mechanism Adjust line space mechanism Adjust mainspring Adjust margin release Adjūst motor belts and pulleys Adjust print impression mechanism Adjust ribbon feed mechanism 🦠 Adjust rocker assembly Adjust rotation spring tension Adjust shift mechanism Adjust space bar mechanism 💯 Adjust tabulator " Align margin bails Clean typewriter Inspect typewriter for periodic maintenance Lubricate typewriter Perfrom fine adjustments Perform motion adjustments Replace bichrome mechanism Replace feed rolls Replace line lock pants Replace margin bails Replace motor Replace motor condenser Replace motor switch Replace shift mechanism

Maintaining and Repairing Photocopy Machine

Adjust motor, drive assembly Adjust paper feed - Adjust print control Clean photocopy machine Repair drum mechanism



Perform operational checks
Replace motor
Repair sorter /
Repair copy counter

Repairing Electronic Components

Read a schematic draining Identify circuit symbols Editify resistors by values using Color codes Identify resistors by types and power ratings Identify capacitors by values and voltage identify inductors by families Identify semiconductors by families Identify integrated circuits by families identify terminals and connectors by size and type Identify fasterners by types and sizes Troubleshout and repair direct current malfunctions Troubleshoot and repair alternating current malfunctions Measure resistance using an ohmmeter Measure voltage using a voltmeter Measure DC voltage using an oscilloscope Observe AC voltage using an oscilloscope Observe AC Wave Froms and measure frequency using oscilloscope Troubleshoot RC, RL, AND RCL circuits malfunctions Couple circuits Troublishoot and repair transistor circuit malfunctions Troubleshoot and repair power supply malfunctions

Repairing Electronic Equipment

Troubleshoot and repair malfunctioning CRT
Troubleshoot and repair malfunctioning micro processor
Identify malfunctioning circuit board
Repair printed circuit board
Replace components on printed circuit board
Troubleshoot and repair malfunctioning printer
Troubleshoot and repair malfunctioning keyboard
Troubleshoot and repair electronic calculators
Repair diskette drives
Troubleshoot and repair dictating equipment

TRAINING CONSIDERATION: Production Painters

DOT: 741.684.026 Painter Sprayer I

JOB DUTIES:

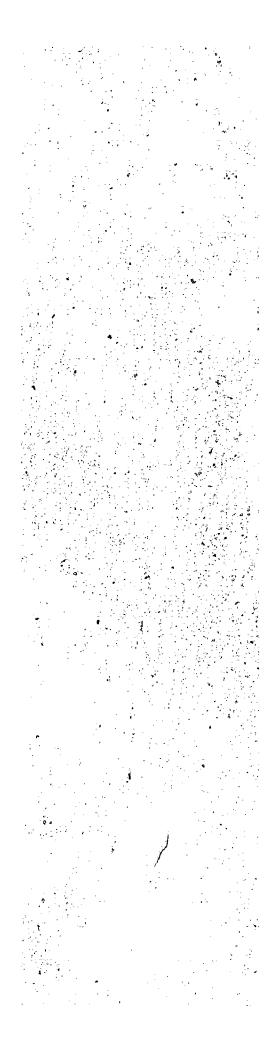
Production painters apply the varnish, lacquer, paint, and other finishes to metal or wood products before they leave the factory. Most production painters use spray guns to apply finishes; the rest operate automatic painting machinery such as spraying machines, dipping tanks, and tumbling barrels.

Painters mix the paint at the start of the painting process.
They first determine the size of the areas to be covered in order to mix the right amount of paint. Then, they follow directions to blend paint to its correct color and thickness. These steps involve simple arithmetic using decimals and fractions.

An increasing number of production lines use automatic painting machinery and robots. Production painters in these settings are called touch up painters; they check for imperfections and spray paint parts of an article that the machine misses or cannot reach. As production lines become more automatic, painters must learn to handle machinery such as electrostatic applicators and powder-type painting systems.

EMPLOYER HIRING REQUIREMENTS AND PREFERENCES:

High school graduation is generally not required for entry level positions, but the ability to read, write, and do basic arithmetic is essential. Production painters need good eyesight and a discriminating sense of color to determine color differences.





TRAINING INFORMATION:

Training time varies from a period of days to several months. Modern painting processes such as those used to apply powdered coatings demand more skill and, thus, a longer training period. Skills are usually acquired on the job.

SALARY:

in 1980, hourly wage rates ranged from \$4.50 to \$11.00 according to information obtained from a limited number of union contracts.

JOB OUTLOOK:

fast as the average for all occupations through the 1980s (absolute change is projected to be 23.654 from 1980 to 1990; percent change is projected as 21.8). Business growth will create a need for more industrial machinery and equipment. However, employment of painters is not expected to keep pace with the greater manufacturing output because increased use of automatic painting processes and robots will raise output per worker. Nevertheless, there will still be a need for extensive touch up work which cannot be automated.

Most production painters work in plants that produce durable goods; thus, employment is often sensitive to economic conditions.

TRAINING CONSIDERATION: Emergency Medical Technician

DOT: 079.374.010

JOB DUTIES:

Emergency Medical Technicians (EMTs) drive an ambulance to the scene of an emergency. They determine the nature and extent of the victims' illnesses or injuries, establish priorities for emergency medical care, and provide the proper care, including opening an airway, restoring breathing, controlling bleeding, treating for shock, immobilizing fractures, bandaging, assisting in childbirth, and giving initial care to poison and burn victims. They also remove trapped victims from vehicles. When patients are transported to a hospital, EMTs place the patients on a stretcher and lift them into the ambulance. They report by radio to the hospital emergency department about the nature and extent of the injuries. EMTs also maintain proper equipment and supplies so that the ambulance is ready for the next trip.

EMPLOYER HIRING REQUIREMENTS AND PREFERENCES:

Few EMTs received formal training until recent years. Now, instruction in emergency medical care is mandatory. Although admission requirements vary from state to state, admittance to an EMT training course generally requires that the applicant be at least 18 years old, have a high school diploma or equivalent, and have a valid driver's license. Graduates of approved EMT training programs who meet experience requirements and pass a written and practical examination administered by the National Registry of Emergency Medical Technicians earn the title of Registered EMT

Ambulance. Although not a general requirement for employment, registration is an acknowledgment of an EMT's qualifications and makes higher paying jobs easier to obtain. All 50 states have some type of certification procedure. In 13 states registration with the National Registry is required. Twenty-nine accept registration with the National Registry as the basis for reciprocity.

Employers look for individuals who are emotionally stable and have leadership ability. EMTs must be able to lift and carry up to 100 pounds. They need good eyesight (eyeglasses are permitted) and must have good dexterity and physical coordination.

TRAINING INFORMATION:

The standard training course for EMTs is the 100 hour program designed by the U.S. Department of Transportation. This program, or its equivalent is available in all 50 states and Washington, D.C. It is offered by police, fire and health departments, in hospitals, and as a special course in medical schools, colleges, and universities. After completing the basic EMT program, students may take a two-day course dealing with the removal of trapped victims and a five-day course on driving emergency vehicles. Training programs for EMT - Paramedics generally last from three to five months. In 1980, there were about 350 training programs for EMT - Paramedics. The American Medical Association's Committee on Allied Health Education and Accreditation has recently begun accrediting these programs.

In 1978, the National Registry of emerging technicians began



registration or state certification as an EMT = Ambulance, successful completion of an EMT = Paramedic program, six months of field experience as an EMT = Paramedic, and passing a written and practical exam.

The EMT - Intermediate registration was introduced in 1980.

This level of registration is, above that for basic EMTs but below that for the EMT - Paramedics.

SALARY:

Earnings depend on the type of employer, the training and experience of the individual, and the location. In 1980, graduates of approved basic training programs received starting salaries of between \$7,000 and \$11,000 annually. With experience, they can earn up to \$13,000. Beginning EMT = Paramedics usually earn salaries of at least \$10,000, and those with experience can earn up to \$20,000 a year. EMTs working for police and fire departments are usually paid the same salaries as police officers and firefighters.

JOB OUTLOOK: /

There were about 120,000 people who worked as paid EMTs in 1980. About 170,000 persons worked part time as volunteers on rescue squads. Employment is expected to grow as fast as the average for all occupations during the 1980's. As the population grows older, more people are expected to use ambulance services. Employment will also be spurred by the expansion of emergency medical services to such settings as nursing homes, factories,

TRAINING CONSIDERATION: Surgical Technician

DOT: 079.374.022

JOB DUTIES:

Surgical technicians, under the spervision of registered nurses, assist surgeons and anesthesiologists before, during, and after surgery. They help set up the operating room with instruments, equipment, sterile linens, and fluids. Surgical technicians also may prepare patients for surgery.

EMPLOYER HIRING REQUIREMENTS AND PREFERENCES:

Some surgical technicians are trained on the job, in programs that vary from six weeks to one year, depending on the trainee's qualifications and the objectives of the training. On-the-job training programs in many hospitals include classroom, as well as clinical instruction. Applicants need a high school education or the equivalent. Some hospitals prefer applicants who have worked as nursing aides or practical nurses.

TRAINING INFORMATION:

Nearly all technicians not trained on the job, receive their training in vocational and technical schools, hospitals, or community and junior colleges. Most programs last from nine months to one year. However, some community college programs last two years and lead to an associate degree. High school graduation normally is required for entrance to surgical technician training programs. Students receive classroom training, as well as supervised clinical experience. In 1980, there were 87 programs

and Accreditation. Required courses include anatomy, physiclogy, and microbiology. Manual dexterity is a necessity for surgical technicians because they must handle various instruments quickly. They must be conscientfous, orderly, and emotionally stable. In surgery, there is very little margin for error.

JOB OUTLOOK:

percent) than the everage for all occupations through the 1980's. Contributing to the growth in demand for workers in this small occupation is the practice of assigning surgical technicians a greater number of routine operating room tasks. In addition to job openings resulting from increased demand for technicians, many openings will occur because of the need to replace workers who transfer to other kinds of work, retire, or die.

Graduates of formal training programs or surgical technicians with certification will have the best opportunities for the
job openings that will occur. Persons without these qualifications can expect to face competition for jobs of their choice.

SALARY:

The average starting salary for surgical technicians was about \$11,200 a year in 1981. Experienced technicians earned about \$14,200 annually. Depending on experience and education, surgical technicians employed by the Federal Government are classified as Operating Room Nursing Assistants and in 1981 they earned beginning annual salaries ranging from \$8,951 to \$16,826.

Graduates of formal training programs often earn higher salaries than workers without this training. Salaries also vary according to the cost of living and geographic locations.

COMPETENCIES:

Count and store operating room equipment and supplies Administer cardiopulmonary resuscitation Inspect emergency equipment and supplies for operation and quantity Assist in draping patient Assist surgeon in gowning and gloving Prep operative site Position and restrain patients for surgery Put on and remove sterile gown and gloves Drape tables and solution stands Select equipment and supplies according to surgical procedure Ground patient and connect electrocautery unit Transfer patients to and from bed or stretcher and operating room table Prepare or update case and procedure cards for surgery Measure and pour solutions for surgery Transport patient by stretcher, letter, and gurney Take blood pressure Measure and record temperature Measure and record pulse and respirator Complete surgical scrub Assist in removing a cast Aspirate incision using suction. Assist anesthetist during induction Obtain blood from operating room blood bank Correct contaminated drapes during operative procedure Do complete surgical count Identify breaks in aseptic technique Pass instruments to surgeon Position operating table during surgery Measure and empty contents of suction containers Hook patient to an electrocardiograph monitor Assist in applying sterile dressing and bandage Connect uninary catheters Decontaminate operating room and equipment Decontaminate surgical instruments Prepare tissue specimens for laboratory analysis Sterilize instruments and supplies Tēst stērilizēr



TRAINING CONSIDERATION: X-ray Technician

DOT: 078.362.026

JOB DUTIES:

individuals who operate radiologic equipment and take X-ray pictures (also known as radiographs) are called radiologic tech-nologists or radiographers. They usually work under the supervision of radiographs. They usually work under the supervision of radiographs. Some states also employ X-ray technicians, who may assist or act in place of the technologists. The technicians perform the simpler functions such as taking routine chest, arm, and leg X-rays.

Radiologic technologists may work in any of three special-ties within the field of radiologic technology. The most widely known specialty is X-ray technology or radiography, taking radiographs of parts of the human body for study by a radiologist in diagnosing a patient's problem. The other two are radiation therapy technology, the use of radiation-producing machines to give therapeutic treatments recommended by radiologists; and nuclear medicine technology, the application of radioactive material to help radiologists diagnose or treat illnesses or injuries.

Before a radiologic technologist can perform any work on a patient, a physician must issue a requisition ordering the work done. Radiologic technologists and technicians prepare patients for radiologic examinations, ensuring that they remove any articles of clothing, such as belt buckles or jewelry, through

either lie on a table or stand, so that the correct parts of the body can be radiographed, always taking care not to aggravate injuries or make the patients uncomfortable. To prevent unnecestary radiation exposure to unaffected parts, the technologist either surrounds the exposed area with radiation protection devices, such as lead shields, or in some way limits the size of the X-ray beam.

After the necessary preparations, the technologist or technician positions the radiation equipment at the correct angle and height over the appropriate area of a patient's body. Using instruments similar to a measuring tape, the technologist measures the thickness of the section to be radiographed. He or she sets the proper controls on the machine, such as those regulating exposure time, to produce radiographs of the right density, detail, and contrast. The technologist then places a properly identified X-ray film of the correct size under the part of the patient's body to be examined and makes the exposure. Afterward, the technologist removes the film and develops it for interpretation by a radiologist. Throughout the procedure, the technologist is careful to use only the amount of radiation necessary to obtain a good diagnostic examination.

equipment, radiologic technologists may have certain administrative tasks. Technologists prepare and maintain patients' records - keeping track of the developed film, the date it was taken, and the radiologist's diagnosis. They also may maintain files,

schedule appointments, prepare work schedules, and, in general manage radiology departments or facilities.

Radiologic technologists generally work a 40-hour week that may include evening or weekend hours. Technologists are on their feet a lot and may be required to lift or turn disabled patients.

EMPLOYER HIRING REQUIREMENTS AND PREFERENCES:

The general requirement for entry into this field is the completion of a formal education program in radiography.

Registration with the American Registry of Radiologic Technologists is an asset in obtaining highly specialized positions.

Registration requirements include graduation from an accredited program of radiography and the satisfactory completion of a written examination. After registration, the title "Registered Technologists (ARRT)" may be used. Once registered in radiography, technologists may be certified in radiation therapy technology or nuclear medicine technology by completing an additional year of combined classroom study and clinical education in either of those disciplines.

Good health, emotional stability, and a sincere desire to work with the sick and disabled are important qualifications for this profession.

TRAINING INFORMATION:

in 1981, the Committee on Allied Health Education and Accreditation (CAHEA) of the American Medical Association accredited 770 programs in radiography, 148 programs in nuclear medicine technology, and 89 programs in radiation therapy



length but which may be part of a four-year degree curriculum, are offered by hospital, medical schools, colleges and universities. Some award a certificate; others lead to associate or bachelor's degrees. Education also may be obtained in the military services or through courses in radiologic technology offered by vocational or technical schools. While employers generally pay graduates of bachelor's degree programs the same starting salaries as those of two-sand three-year programs, there is more potential for advancement for those holding the bachelor's degree. Those persons planning to be educators or administrators should pursue the bachelor's or master's degree.

All programs accept only high school graduates or the equivalent. Courses in mathematics, physics, chemistry, and biology are helpful.

Radiologic technology programs include courses in anatomy, physiology, patient care procedures, physics, radiation protection, principles of imaging, medical terminology, positioning, medical ethics, radiobiology, and pathology.

One Job Corps center currently contracts X-ray technician training to a vocational school. The program includes 800 hours of instruction and lasts for 10 months. Entering corpsmembers must have a high school diploma or GED, a tenth grade reading level and ninth grade math level. Upon completion, students must pass the state board exam. If they pass, they receive a limited license as an X-ray technician. Requirements will vary from

SALARY:

According to national survey conducted by the University of Texas Medical Branch, starting salaries of radiologic technologists employed in hospitals, medical schools, and medical centers averaged about \$13,600 a year in 1981. Experienced radiologic technologists earned about \$17,400 a year.

Workers with more specialized skills generally earn more. In 1981, radiation therapy technologists started at about \$15.300 and experienced personnel averaged \$18,900 a year. Nuclear medicine technologists had average earnings of about \$15,700 to start and \$19,400 after several years of experience.

The Federal Government paid new graduates of CAHEA=

accredited programs of radiologic technology a starting salary of about \$11,000 a year in 1981. Diagnostic radiologic technologists were paid average salaries of \$14,900 a year; therapeutic radiologic technologists received \$15,700 and nuclear medicine technicians, \$16,200.7

Job Corpsmembers who were trained in 1982 started at an average wage of \$5.48 an hour.

JOB OUTLOOK:

As radiologic equipment is increasingly used to diagnose and treat disease, employment in the field of radiologic technology is expected to expand faster than the average for all occupations through the 1980's. While job prospects for radiographers are good, overall, there reportedly is a glut in the Northeast and a shortage in the South and the Northwest. Jobseekers should take

account of these regional differences, which may persist in coming years. Thowever, in addition to jobs created by increased demand for these workers, many openings will occur because of replacement needs. Opportunities for part-time work will be best in physicians, offices and clinics where full-time radiologic services may not be required:

TRAINING CONSIDERATION: Computer Operator

DOT: 213.362.010 Computer Console Operator 213.382.010 Computer/Peripheral Equipment Operator

JOB DUTIES:

The computer operator is the person in charge of a data center. Operators respond to any situation demanded by the computer. They monitor the systems, locate types of files, make program corrections, update, print and deliver programs on time, maintain tape and disk libraries, are familiar with various hardware configurations, mount and dismount tapes and disks, and power up and down central processing units.

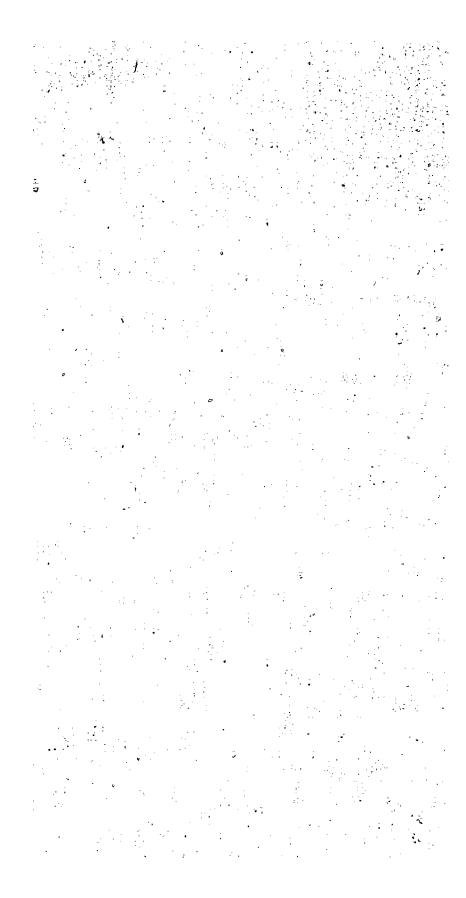
A computer peripheral equipment operator operates on-line or off-line peripheral machines such as magnetic tape drives, disk drives, card readers, card punches, and line or page printers.

This person is responsible for transferring data from one form to another, printing output or reading data into and out of the computer.

EMPLOYER HIRING REQUIREMENTS AND PREFERENCES:

Employers in private industry require a high school education, and may prefer to hire console operators who have some community or junior college training, especially in data processing. The Federal Government requires a high school wiploma, unless applicants have had specialized training or experience. Many employers test applicants to determine their aptitude for computer work, particularly their ability to reason logically.

In some firms current employees such as tabulating and





peripheral equipment or console operators. Most often, however, employers recruit workers who already have the necessary skills to operate the equipment.

TRAINING INFORMATION:

Computer console operators require one to two years of training and peripheral equipment operators train for several months. Many high schools, public and private vocational schools, private computer schools, business schools, and community or junior colleges offer training in computer operating skills. The military services also offer valuable training in a number of computer skills.

SALARY:

In 1979, weekly earnings of beginning console operators averaged about \$205. Experienced workers earned from \$240 to \$300.

JOB OUTLOOK:

expected to rise much faster than the average for all occupations through the 1980's. Employment of computer operators is expected to increase over 70 percent between 1980 and 1990, and experience an absolute change in employment of 140,132, in that time period.

COMPETENCIES:

Supervise Computer Center

Determine status of processed and pending jobs
Assess output quality
Schedule preventive maintenance for data processing equipment
Enforce computer center security program (control of data)
Enforce computer center security program (control of access)
Set up queue structure

Process Data Using Computer Equipment

Perform power-on procedures Perform power-off procedures' Mount carriage control tape. " Mount disk pack a Mount tapes 🚊 Input data using card reader Duplicate cards using a ward punch Load programs, files or data base Input commands via operator's console Monitor data processing via operator's console Process jobs using work flow language Modify queue structure Perform halt/restart procedures Run tests on programs Copy files Clean card readers, printers and tape drives Load the operating system

Performing Data Processing Using Peripheral Equipment

finput data using optical character recognition (OCR) devise Separate printouts using burster Clear paper jam Load paper in printer Change ribbon in printer

Processing Incoming Jobs and Final Output

Submit jobs for computer processing Bind and distribute output

Maintaining Tape and Disk Pack Library

Process tape request
Initialize tapes
Scratch tapes
Clean tapes
Initialize disk pack
Prepare external tape and disk pack labels
File disk packs and tapes



Restore lost data onto disk packs and tapes Keep records on use of tapes

Performing Miscellaneous Computer Operator Activities

Perform life and data protection procedures during emergency conditions (fire, flood)
Perform data protection procedures during power failure
Perform power conservation and data protection procedures during air conditioning failure

TRAINING CONSIDERATION: Data Processing Machine Mechanics

Service Technicians)

DOT: 828.281.010 Electronics Mechanic 828.281.014

Electronics Mechanic Apprentice

JOB DUTIES:

Computer service technicians (often called field engineers or customer engineers) service data processing machines or systems to keep them operating efficiently. They routinely adjust, oil and clean mechanical and electromechanical parts. They also check electronic equipment for loose connections and defective components or circuits. When the technicians help to install new equipment, they lay bales, make electrical connections among machines, thoroughly test the new equipment, and correct any problems before the customer uses the machine.

The technician must be able to find the cause of equipment failure and make necessary repairs when the machines break down.__ In addition, computer technicians must be able to read and understand, technical and repair manuals for each piece of equipment. They also must be able to understand revised maintenance procedures issued by computer manufacturers.

EMPLOYER HIRING REQUIREMENTS AND PREFERENCES:

Most employers require applicants for technician trainee jobs to have one to two years of post-high school training in basic electronics or electrical engineering. In some companies, applicants must pass a physical examination. A security clearance may be required in cases where technicians regularly service



machines located in restricted buildings, such as Federal Government installations engaged in classified activities.

Most computer equipment operates on the same basic principles, but machines built by different companies may be unique in design and construction. For this reason, technicians may find it difficult to transfer between companies that maintain different brands of equipment. However, because of the pressing need for experienced technicians, many opportunities exist for well-qualified workers to transfer to other firms that handle the same type of computer hardware.

Training and experience in computer maintenance may also help qualify a technician for a job in equipment sales, programming, or management. Employers look for individuals with logical analytical minds who possess the necessary basic technical knowledge.

TRAINING INFORMATION:

Applicants for computer service technician trainee jobs must have completed a one to two year basic electronics or electrical engineering program before seeking employment. This training may be from a public or private vocational school, a college, a junior college or the Armed Forces.

Once hired, trainees are usually required to attend company training centers for three to six months. Classroom work is accompanied by practical training. Furthermore, in addition to formal instruction, trainees must complete six months to two years of on-the-job training.

SALARY:

In 1980, computer service technician trainees earned about \$270 a week. Fully trained workers earned about \$385 a week and senior level technicians with several years' experience earned between \$430 and \$575 a week.

JOB_OUTLOOK:

Employment of computer technicians is expected to grow much faster than the average for all occupations through the 1980's.

Absolute change in numbers is expected to be 77,296 and percent growth to be 93.4.

The very strong demand for computer technicians is related to the growing number of computers in operation. Continued reductions in the size and cost of computer hardware will bring the computer within reach of a rapidly increasing number of small organizations. As more and more of these small systems are installed, more technicians will be needed to install and to maintain them.

Employment of computer service technicians is less likely to be affected by downturns in business activity than other fields. Because computer operations are rarely curtailed during economic slumps, employment of computer service technicians should remain relatively stable.

The following list of competencies has been developed by companies that manufacture computers. This list is a condensation of the list published by the Computer and Business Equipment Manufacturers. Association.

'nй

Personal Skills

Students will demonstrate the ability to:

- Repair a piece of equipment or an assembly requiring them to work in a physically awkward or difficult position according to the same standards they would achieve in an ideal location.
- Repair cheerfully and successfully a piece of inoperative equipment when the customer is fery disturbed or angry:
- complete a series of tasks requiring them to work alone for eight hours, just as they would under someone's direction.
- Accurately follow each and every step in a long adjust = ment procedure.

Interpersonal Relations and Communications Students will demonstrate the ability to:

- O Use clear, concise and technically accurate language to explain to a co-worker how to make a particular mechanical, electrical or pneumatic adjustment so that the co-worker can make the adjustment correctly.
- o Answer a salesperson's question about equipment operation accurately and clearly, in a positive manner.
- o Present effectively to a supervisor their positions in conflicts with customers, co-workers or salespersons.
- o Prepare clearly, concisely and accurately a job appli-

3. Mathematics

Basic Mathematics

Students will demonstrate the ability to add and subtract accurately, multiply and divide accurately, and calculate powers of ten.

Units of Measure

Students will demonstrate the ability to:

- o Measure with a common rule (English or metric) to the tolerance of the scale being used.
- o Convert, making no errors, fractions to decimals and decimals to fractions.

Computers

Students will demonstrate the ability to:

- o Add and subtract correctly in binary, octal and hexa-
- o Convert numbers from one base to another without error

Basic Mechanics

Students will demonstrate the ability to:

- o Understand how levers, gears, chains, sprockets, belts and pulleys are used to increase or decrease the me-
- o $\sqrt{}$ Adjust solenoids for proper operation.
- o Adjust micro switches for proper overtravel and re-
- o Adjust tension properly on belt and chain drives, with

- of light pressure, heavy pressure, high temperatures and low temperatures.
- o / Identify defective parts and describe the cause and result of their condition.

Fastening Devices

- o Identify and provide examples of the use of various types of screws.
- o Identify and provide examples of the use of various
- Remove various types of pins and keys so that they can be used again.
 - o Remove and install various types of rings.
 - o Remove and install types of nuts and give reasons for their use.
- o List the problems that would result from stripped and cross-threaded screws and nuts.

Soldering

Students will demonstrate the ability to:

- o Remove and replace an integrated circuit (IC) on a printed circuit board using the proper equipment.
- o Remove and replace soldered wire connections to plugs and circuit boards.
- o Make "in-line" soldered splices on wire harnesses.

Mechanical Drawings

Students will demonstrate the ability to describe the function of a mechanical device pictured in a cut-away drawing.

Safety

Students will demonstrate the ability to:

- o Use properly functioning tools and test equipment in a
- o Use the proper technique for lifting and moving heavy equipment.

Electronics

Basic Electronics

Students will demonstrate the ability to:

- o Solve simple electrical circuits using Ohm's Law.
- Solve for resistances, voltages, currents and wattages in series, parallel and series=parallel electrical circuits using Ohm's Law.
- o Measure currents and voltages in AC circuits containing resistance, inductance and capacitance.
- Define common base; common emitter and common collector

Electrical Symbols and Diagrams

Students will demonstrate the ability to:

- Match a specific point on a schematic representing an electronic circuit to its part on the electronic component.
- Follow a signal from start to finish on schematics representing more than two different circuit boards.
- o Determine points where signal flow can be checked on circuit boards.



o Describe the condition and purpose of active devices on a schematic with signal inputs.

Logic Circuitry

Students will demonstrate the ability to wire and verify the input and output circuitry of logic gates, using truth tables.

Block and Timing Diagrams

Students will demonstrate the ability to define the uses of electrical and mechanical block diagrams.

6. Tools and Test Equipment

Students will demonstrate the ability to select and use specific hand and power tools to complete a series of mechanical tasks. Students will demonstrate the ability to use oscilloscopes, volt-ohmmeters, digital voltmeters, and ammeters to make specified measurements.

7. Parts Handling

Students will demonstrate the ability to arrange parts for storage so that each part can be located easily and promptly by means of a filing card system.

Reporting and Record Keeping Administration Students will demonstrate the ability to:

- o File (alphabetically or numerically) and retrieve rapidly an assortment of technical data.
- and new data to or purge out-dated or redundant infor-, mation from a well-organized file or collection of technical data, remaining able to locate with minimum delay any bit of pertinent information.



Reports

- o Complete an accurate time and activity report for a hypothetical workweek.
- o Fill out an order form for parts needed next month, using a list of parts used over the last year, a list of recommended parts to carry and a list of parts on hand.
- o Fill out accurately machine service history logs, using correct technical terms.

Map Reading

- o Find a given location on a map of a city.
- o Indicate the best route to a given town on a state map

IV. Occupations Which Could Not Be Recommended Due To Inadequate

The following occupations are projected to experience an absolute growth of over 10,000 and a percentage growth of over 18.5 between 1980 and 1990. However, reliable information on employer hiring requirements, methods of training, length of training, and types of skills required to perform competently could not be obtained. Centers may wish to gain more information about these occupations if local and state occupational data project above average growth.

Credit Clerk D.O.T. 205.367.022
Statement Clerk D.O.T. 219.362.058

(Both jobs are performed in banks and other financial institutions, yet the D.O.T. codes were not included in the projections for bank clerks.)

for loans and credit. The clerk may interview applicants to obtain personal and financial data; call or write to credit bureaus, employers and personal references to check credit, and verify credit limit. The clerk may keep records of credit transactions, deposits and payments, and may compute interest and payments.

Statement clerks record previously prepared bank statements, distribute them to customers and reconcile discrepancies in records and accounts. The clerks route statements for mailing to customers. They may cancel checks and post stop payment notices to prevent payment of protested checks.

Claims Clerk I and II:

D.O.T. 241.362.010 and

The claims clerk I reviews insurance claim forms for com pleteness, adds missing data, and transmits claims for payment or further investigation. The clerk reviews customer insurance policies to determine coverage and calculates the amount of claims, using a calculator. The claims clerk II prepares reports and insurance claim forms for damage or loss against insurance companies, obtains information from the insured to prepare the form, and forwards the report of claim to the insurance company.

Insurance Clerks, Medical

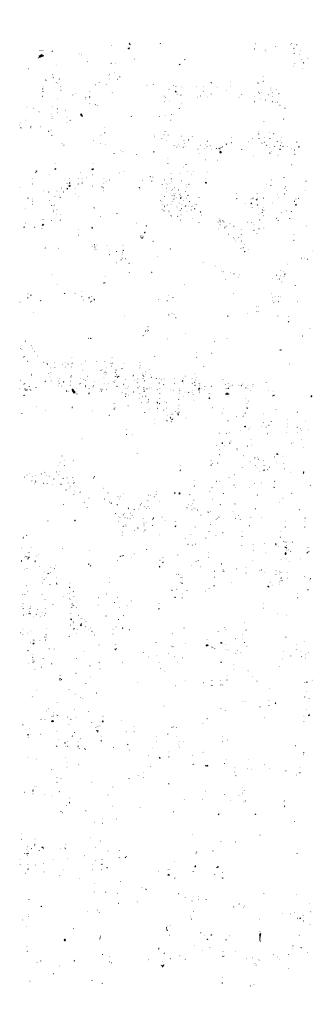
D.O.T. 214.362.022

Medical insurance clerks verify hospitalization insurance coverage, compute patient benefits, and compile itemized hospital bills. They contact insurance companies to verify a patient's coverage and to obtain information concerning extent of benefits. They compute the hospital bill showing amounts to be paid by the insurance company and the patient.

Dispatchers, Vehicle Service or Work

10 D.O.T. codes_

Dispatchers receive telephone and written orders from various sources and relay the requests. They keep records of the requests and services rendered. Dispatchers may work in plants, where they relay orders for maintenance service; in utilities companies, where they dispatch customer service workers to install, service, and repair electric, gas, or steam power systems;









in bus depots, where they dispatch interstate or long distance buses according to schedules; and in various other industries performing the same functions.

5. Lead Operator, Automatic Vulcanizing, Rubber and Plastics
D.O.T. 690.362.010

The individual operates a machine that automatically vulcanizes lengths of rubber hose. The operator moves the controls
of the machine to specified settings to regulate temperature,
pressure, feed rate and vulcanizing time, and records the hose
footage processed and the vulcanizing time in a production log.

TABLE III-A

OES AND RELATED D.O.T. OCCUPATIONAL TITLES RANKED IN ORDER

OF ABSOLUTE CHANGE IN WHICH JOB CORPS IS CURRENTLY NOT TRAIN-

ING OR IN WHICH JOB CORPS IS PROVIDING TRAINING TO FEWER THAN 25 INDIVIDUALS

		<u> </u>		<u></u>			
ÖES	JOB TITLES (D.O.T. Titles are Indented)	D.O.T.	ABSOLUTE CHANGE IN EMPLOYMENT 1980-1990	PERCENT CHANGE IN EMPLOYMENT 1980-1990	LANGUAGE LEVEL REQUIRED (GRADE)	LENGTH OF TRAINING REQUIRED 1	JOB CORPS TRAINING FEASIBILITY CODE 2/
62002201	Increase 100,000 or more Truck Drivers. Road-Oiling-Truck Driver Concrete-Mixing-Truck Driver	853.663.018 900.683.010	356,222	23.1	1-3 1-3	5 3	6
	Dump-Truck Driver Explosives-Truck Driver Powder-Truck Driver Tank-Truck Driver Tractor-Trailer-Truck Driver	902.683.010 903.683.010 903.683.014 903.683.018 904.383.010			1-3 4-6 4-6 4-6 7-8	2 3 3 3	
	Log-Truck Driver Milk Driver Garbage Collector Driver Truck Driver, Heavy	904.683.010 905.483.010 905.663.010 905.663.014			4-6 4-6 1-3 4-6 7-8	3 3 4	
	Van Driver Water-Truck Driver 2 Food-Service Driver Liquid-Fertilizer Servicer Truck Driver, Light	905.663.018 905.683.010 906.683.010 906.683.014 906.683.022			4-6 1-3 1-3 4-6	3 3 3	
	Hostler Driver-Utility Worker Escort-Vehicle Driver Tow-Truck Operator Observer Helper, Gravity Pro-	909.663.010 919.663.018 919.663.022 919.663.026 939.663.010		₽	4-6 1-3 4-6 4-6 1-3	4 2 3 3	
10203222	specting Preschool/Elementary Teacher Teacher, Elementary School	092.227.010	349,014	20.0	Col1.	6	4
	Teacher, Kindergarten Teacher, Preschool	092.227.014 092.227.018		100	9-12 7-8	6	

The key to the code for length of training required appears at the end of this table.



The key to the feasibility code appears at the end of this table.

	42	<u> </u>				1
JOB TITLES (D.O.T. Titles are indented)	D.O.T.	ABSOLUTE CHANGE IN EMPLOYMENT 1980-1990	PERCENT CHANGE IN EMPLOYMENT 1980-1990	LANGUAGE LEVEL REQUIRED (GRADE)	LENGTH OF TRAINING REQUIRED 1	JOB CORPS TRAINING FEASIBILITY CODE 2/
Computer Operator	213.362.010	132,140	71.7	7-8	- 6	<i>j</i> 1
Stock Clerk, Sales Floor	299.367.014	121,674	20.5	14=6	4	$\bar{f 2}$
Self Service Store						H TO STANSON
-(ir op		
Computer Programmer		111,856	49.5		, r , _	4
Detail Programmer	219.367.026			9-12	· 5	
Business Programmer	020.162.014	ŷ		9=12	7	
. Chief Business Programmer	020.167.018			Coll.	7	
Eng. and Scientific Programmer	020.167.022	1.		Coll.	8	
Information System Programmer	020.187.010			Coll.	7	
Process Control Programmer	020.187.014		•	Coll.		
Increase 50,000 to 99,999				}		
Delivery and Route Workers		86,089	10.8 *			2
Driver, Sales Route	292.353.010	00,005	10.0	7-8	3	_
Newspaper/Delivery Driver,	292.363.010	•		4-6	4	
Lunch Truck Driver	292.463.010			4-6	2	
Coin Collector	292.483.010			7-8	3	
Deliverer, Merchandise	299.477.010			4-6	3 .	
Telephone Director Distributor/	906,683,018			4-6	3	·· -
Driver,			-			
•	; • ´.	J				in the second
Data Processing Machine Mechanics		77,296	93.4	7-5		i I
Assembly Technician	633.261.010			7=8 0=10		•
Field Engineer	828.261.014			9-12 9-12,		
Electronics Mechanic	828.281.010			9-12 9-12		
Electronics Mechanic Apprentice	828.281.014		41	3-12		
Police Patrolmen/Women		65,951	16.8	4		6
Pilot, Highway Patrol	375.163.014	05,551	10.0	9=12	6	7
Accident Prevention Police Officer]		7-8	5	
Police Officer 1	375.263.014			7-8	6. ^	
		<u> </u>	1			<u>+1 </u>

The key to the code for length of training required appears at the end of this table.

The key to the feasibility code appears at the end of this table.

III-A-2.

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					i		p)
OES	JOB TITLES (D.O.T. Titles are Indented)	D+O+T2	ABSOLUTE CHANGE IN EMPLOYMENT 1980-1990	PERCENT CHANGE IN EMPLOYMENT 1980-1990	LANGUAGE LEVEL REQUIRED *** (GRADE)	LENGTH OF TRAINING REQUIRED 1.	JOB COMPS TRAINING FEASIBILIT CODE 2/
	State Highway Policy Officer Border Guard	375.263.014 375.363.010			7-8 7-8	Arrio.	
61087600 40065001	Miscellaneous Machine Operators, Rubber and Plastic Lead Operator, Automatic Vulcanizing Shipping and Receiving Clerks Reconsignment Clerk Shipping/Order Clerk Cargo Checker Truckload Checker Aircraft/Shipping Checker Car Checker Fuel/Oil Clerk Shipping and Receiving Clerk Grain Elevator Clerk Ship Runner Route/Delivery Clerk Router Vault Worker Receiving Checker Shipping Checker Shipping Checker Shipping Checker Shipping Checker Shipping Checker Shipping Checker Stubber Incoming/Freight Clerk Booking Clerk Checker Sales Agents, Real Estate Leasing Agent, Residence	209.367.042 219.367.030 222.367.010 222.367.010 222.387.014 222.387.014 222.387.010 222.567.014 222.567.014 222.567.014 222.567.038 222.567.038 222.687.038 222.687.038 222.687.038 222.687.018 222.687.030 248.367.014 919.687.010	58,578 56,080	30.5 15.1 51.6	4-6 7-8 7-8 4-6 7-8 4-6 4-6 4-6 4-6 7-8 4-6 7-8 4-6 1-3	5 4 4 4 4 3 5 2 7 5 4 4 2 3 3 3 4 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2	7
	Sales Agent	250.357.018			9-12	5	

^{*}Job Corps currently provides training in similar occupations which are listed under other OES headings; i.e., Materials Handler 929.687.030, Laborer, Stores 922.687.058, and Stock Clerk, 222.387.058.

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60

III-A-3

		X		, (Pac	je 4
		ABSOLUTE	PERCENT	LANGUAGE		JŌB_CORPS
		CHANGE IN	CHANGE IN	LEVEL	LENGTH OF	TRAINING
JOB TITLES		EMPLOYMENT	EMPLOYMENT	REQUIRED	TRAINING	FEASIBILITY CODE 2/
- (D.O.T. Titles are Indented)	р.о.т.	1980-1990	1980-1990	(GRADE)	REQUIRED1/	CODE <u>21</u>
		-	, , , , , , , , , , , , , , , , , , ,			
						7
		- A	Service of		, pi	- · · · · · · · · · · · · · · · · · · ·
Shipping Packers		51,671)	15.0			7,
yAircraft Equipment	222.587.010			7-8	4	1
Distributing Clerk	222.587.018			1-3 5	3	/
Cloth Bolt Bander	920.587.010			4-6	2	
, Line Out Worker 1	920.687.110 920.687.114			1-3	2 .	
Line Out Worker 2	920.687.162			4-6	2	
Shipping Processor	929.684.010			4-6	3	į.
Packer Roll Coverer, Burlap	929.687.042			1-3	2 3	
ROLL COVELET, DESCRIPTION		44.54	Arras San			3.4
Maintenance Mechanic		55,148	, 16.4	7-8	7 6 -	3,4
Automotive-Maintenance-Equipment	620.281.018		1.3.3	/		
Service			¥	7-8	7.	
Forge-Shop-Machine Repairer	626.261.010			7-8	7	
Machine Repairer, Maintenance	626.281.010 626.381.010			7-8	5	
Case-Finishing-Machine Adjuster	626.381.014			7-8	7	
Gas-Welding-Equipment Mechanic Bygraulic-Press Servicer	626.381.018			' 7-8	6	3.54 7 7
Repairer, Welding Equipment	626.381.022			7-8	6	
Composing-Room Machinist	627.261.010			7-8	8	
Machinist Apprentice, Composing	627.261.014			7-8		
Room	3.5			7-8	` >• 7 . €	
Machinist Apprentice, Linotype	627.261.018 627.261.022			7-8	7.	\
Machinist, Linotype	627.281.010			7-8	8	
Press_Maintainer x	628.684.038			7-8	3	
Wire Repairer Miller, Head, Wet Process	629.261.014			7-8	7	
powder-Line Repairer	629.261.018			7-8	6 *	
Maintenance Mechanic	629.280.010	1		7-8	16	
Bakery-Machine Mechanic	629.281.010	•	1	7-8 7-8	6	Strains of
Cellophane-Casting-Machine Re-	629.281.014		i	/-0		
pairer	<u> </u>		<u> </u>	l	ľ	
1 The less to the code for length	of training re	quired appear	s at the end	of this tal	оте.	•

The key to the code for length of training required appears at the end of The key to the feasibility code appears at the end of this table.

III-A-4

JOB TITLES (D.O.T. Titles are indented)	D. Ö. T.	ABSOLUTE CHANGE IN EMPLOYMENT 1980-1990	PERCENT CHANGE IN PEMPLOYMENT 1980-1990	LANGUAGE LEVEL REQUIRED (GRADE)	LENGTH OF TRAINING REQUIRED 1	JOB CORPS TRAINING FEASIBILITY CODE 2/
7		Approximation a		1		
Dairy-Equipment Repairer	629.281.018		•	7-8	7	
Forming-Machine Adjuster	629.281.026			7-8	5	
Maintenance Mechanic	629.281.030		للسفى المراجعة فالمراجعة	7 - 8	6	
Pump Mechanic	629.281.034		· · · · ·	7-8	6	
Machine-Clothing Replacer	629.361.010		14.	7-8	-	
Foiling-Machine Adjuster	629.381.010			. 7=8	5	
Maintenance Mechanic, Compressed-	630.261.010	N : .	•	7-8		
Gas Pl.	030.202.920		. ' to	, ,	÷ ()	`
Oven-Equipment Repairer	630.261.014			7-8	6	
Repairer 1	630:261.018			7-8	, <u>, , , , , , , , , , , , , , , , , , </u>	
Pump Servicer	630.281.018			7-8	7	Ye I was in
Repairer	630.281.026			7-8	7	*
Rubberizing Mechanic	630.281.030			7-8	7 7	-
Conveyor-Maintenance Mechanic	630.381.010			7-6	6	=
Lead Operator	630.381.018		7	7-8	ě	
Fixture Repairer-Fabricator	630.384.010		1. 1.	4-6	5	
Screen-and-Cyclone Repairer	630.664.014			4-6	٠.۵	
Repairer 2	630.684.026			4-6	A	-
Salvager	709.684.070	医眼间反射 医额侧	/	4-6		
Sarvager	109.004.070	//) 0.		
navinakika mesterasa (meskeist On		51,692	.8.5	4-6		•
Production Packagers (Contains 80 . D.O.T. codes)		31,692	.0.5	4-0		
D.O.T. codes)		· · · · / · · · /				
777777777777777777777777777777777777777	/ · 12 (to 4 /			, ,		
Increase 25,000 to 49,999						
Orrection Officers	\	44,255	16.1	أة •	*‡	3,6
Jailer	372.367.014			4-6	4	
Correction Officer	372.667.018	/ 📈 🖠		4-6	4	•
Patrol Conductor	372.667.010			4-6	3	
Police Officer	375.367.010			4-6	4	
Police Officer	3,30,.010			· · · · · ·		
Bus Drivers		41,742	15.0		4	3,6
Bus Driver, Day Hay1	913.363.010			4-6	3	
Bus Driver	913.463.010	\sim	1	4-6	, 5	
					<u>" </u>	

The key to the code for length of training required appears at the end of this table.

III-A-

64

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Page 6

JOB TITLES (D.O.T. Titles are Indented)	D.O.T.	ABSOLUTE CHANGE IN EMPLOYMENT 1980-1990	PERCENT CHANGE IN EMPLOYMENT 1980-1990	LANGUAGE LEVEL REQUIRED (GRADE)	LENGTH OF TRAINING REQUIRED1/	JOB CORPS TRAINING FEASIBILITY CODE 2/
Mobile Lounge Driver Buyers, Retail/Wholesale Buyer Buyer, Assistant	913.663.014 162.157.018 162.157.022	41,661	18.8	4-6 9-12 7-8	3 6 6	
Sales Agent, Insurance Host/Hostess-Reseaurant, Lounge Coffeeshop	250.257.010	39,677 38,212	16.5 33.3	9-12 9-12	6 5	4,5
Fire Fighters Fire Chief's Aide Firefighter Firefighter, Fire and Rescue Smoke Jumper V Forest-Fire Fighter	373.363.610 373.364.010 373.663.010 452.364.014 452.687.014	36,614	16.7	7-8 7-8 7-8 4-6 1-3	6 6 5 6	3
Order Clerks Industrial Order Clerk Repair Order Clerk Checker, Bakery Products Sample Digplay Preparer	221.367.022 221.382.022 222.487.010 222.687.026	36,234	14.9	9-12 7-8 7-8 4-6	4 3 4 3	
Credit Clerk, Blood Bank Order Congrol Clerk, Blood Bank Order Clerk Bookkeeping, Billing Machine Opera- tor Machine Operator 1	245.367.022 245.367.026 249.367.054 210.382.022	35,128	19.9	7-8 7-8 7-8 7-8	3 3 4	
Machine Operator 2 Fee Clerk Billing Machine Operator	210.382.026 214.362.018 214.482.010			7-8 7-8 7-8 7-8	5 73 4	

The key to the code for length of training) required appears at the end of this table.

The key to the feasibility code appears at the end of this table.

III-A-6







		<u> </u>		<u></u>			- 1
ŌES	JOB TITLES (D.O.T. Titles are Indented)	D.O.T.	ABSOLUTE CHANGE IN EMPLOYMENT 1980-1990	PERCENT CHANGE IN EMPLOYMENT 1980-1990	LANGUAGE LEVEL REQUIRED (GRADE)	LENGTH OF TRAINING REQUIRED 1	_ JOB CORPS _TRAINING FEASIBILITY / CODE 2/
40040201 (cont.) 61021609 10120801 40062400	Deposit Refund Clerk Audit Machine Operator Punch Press Operator Duplicator-Punch Operator Ironworker-Machine Operator Punch Press Operator, Automatic Turret-Punch Press Operator Punch Press Operator Turret-Punch Press Operator, Tape- Contr Turret-Punch Press Operator, Tape- Contr Tubing-Machine Tender X-Ray Technician Production Clerks Extension Clerk Products Material Coordinator Products Material Coordinator Production Coordinator Retort-Load Expediter Progress Clerk Alterations Workroom Clerk Line-Up Worker		34,276 33,909 33,873	18.8 37.2 16.9	7-8 4-6 7-8 4-6 1-3 4-6 1-3 1-3 1-3 1-3 1-3 1-3 1-3 1-3 1-3 1-3	4 4 5 5 5 5 4 2 2 3 3 3 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	
	Locomotive Lubricating Systems Clerk Machine-Stoppage-Frequency Checker	221.367.030			4-6	3	Norma T

¹ The key to the code for length of training required appears at the end of this table.

2 The key to the feasibility code appears at the end of this table.

III-A-7



			<u> </u>				
OES	_JOB_TITLES (D.O.T. Titles are indented)	D-0.T.	ABSOLUTE CHANGE IN EMPLOYMENT 1980-1990		LANGUAGE LEVEL REQUIRED (GRADE)	LENGTH OF TRAINING REQUIRED 1	JOB CORPS TRAINING FEASIBILITY CODE 2/
4000100		007-009-000					
40062400	Maintenance Data Analyst	221.367.038			7-8	5	•
(cont.)	Material Expediter	221.367.042			7-8	4	
7	Mill Recorder, Computerized Mill	221.367.046			7-8	5	
	Recorder	221,367.050	_		7-8	5	
4	Relay-Record Clerk	221,367.054.			7-8	5	
	Reproduction Order Processor	221.367.058	-		7-8	: <u>5</u>	•
	Scheduler, Maintenance	221.367.066	* **		7-8	4	
	Service-Liaison Representative	221.367.074			9-12	6	
	Traffic Clerk	221.367.078			7-8	4	r est.
arrango.	Work-Order-Sorting Clerk	221.367.082			. 7-8	5	
	Production Clerk	221.382.018	· · · · · · · · · · · · · · · · · · ·	4	7-8	4	
à	Back-Shoe Worker	221.387.010			7-8	4`	en e
	Control Clerk	221.387.018		·	7-8	6	
	Expediter Clerk	221.387:026			7-8	. 3	
1	Jacket Repairer	221.387.030	1		7-8	.3	
Α.	Job Trager	,221.387.034	•		7-8	4	
7	Order Detailer	221,387,046			7-8	4, 7	
	Checker-In	221,587,014	10.1		4−6	2 3	
	Odd-Piece Checker	221.587.018		· ·	4-6	2	
	Ticket Scheduler,	221.587.038	¥		4-6	3	
	Weave-Defect-Charting Clerk	221.587.042			4-6	. 2	
	Yardage-Control Clerk	221.587.050			4-6	, 2	
	Ticket Puller	221.687.014			1-3	2	
	Metal-Control Coordinator	222.167.010	- : :	\$	7-8	<u> </u>	
_	Expediter	222.367.018			7-8	4	•
	Grey-Goods Marker	229.587.010			4-6	2/2	
	Advertising-Dispatch Clerk	247.387.014			7-8	4	1
	Supercargo	248.167.010	,		7 - 8	7 7	
į	Container Coordinator	248.367.022	••		7-8	6	
F . 1	Labor Expediter	249.167.018	, _		9-12	. 5	
,	Car Distributor	910.367.014			7-8	5	
Ţ.,	Flight-Information Expediter	912.367.010			9-12	5	
	Schedule Maker	913.167.018		,	9-12		$\sum_{i=1}^{n}$
	Concesso imiga	2,20,20,020				_ /	
·	£,	<u> </u>		* * *		<u> </u>	

The key to the code for length of training required appears at the end of this table.

The key to the feasibility code appears at the end of this table.

III-A-8



		1.4	- Marie	-4.	<u> </u>		
ŌĒS	JOB TITLES (D.O.T. Titles are indented) 4	D.O.T.	ABSOLUTE CHANGE IN EMPLOYMENT 1980-1990	PERCENT CHANGE IN EMPLOYMENT 1980-1990	LANGUAGE LEVEL REQUIRED (GRADE)	LENGTH OF TRAINING REQUIRED 1	JOB CORPS TRAINING FEASIBILITY CODE 2/
40062400 (cont.)	Dispatcher, Radioactive-Waste- Disposal Payroll and Timekeeping Clerks	955.167.010	32,109	18	9-17	7	
<u> </u>	Flight Crew Time Clerk Assignment Clerk Timekeeper Payroll Clerk, Data Processing Payroll Clerk	215.362.018 215.367.010 215.367.022 215.382.010 215.482.010			9-12 4-6 7-8	5 ,3' ,'4 ,4	1
50082400	Office Machine and Cash Register Servicer Mail Processing Equipment Mech. Cash Register Servicer	633.261.014 633.281.010	3 1,988	62.4	7-8	<u>6</u>	i
A partie	Dictating - Transcribing Machine Servicer Office Machine Servicer Office Machine Servicer App.	633.281.014 631,281.018 ** 633.281.018		in the second se	7-8 7-8 7-8 7-8 7-8	$\begin{pmatrix} \frac{1}{2} \\ \frac{7}{2} \\ \frac{7}{7} \end{pmatrix}$	
7083000	Aliner, Typewriter	633.281.030 706-381.010 706.381.030	24 ber	271-0	4-6. 7-8	4/	
70,2000	Case Aide Management Aide Increase 10,000 to 24,999	195.367.010 195.367.014	31.7903	33.8	Coll. 9-12	6 5	
d0062210 (x		241.362.010 205.367.018	24,952	38.8	7-8 7-8	4 4	3
61084210	Production Painters.		23,654	21.8			

¹ The key to the code for length of training required appears at the end of this table.
2 The key to the feasibility code appears at the end of this table.



ŌES	JOB TITLES (D.O.T. Titles are indented)	D.O.T.	ABSOLUTE CHANGE IN EMPLOYMENT 1980-1990	PERCENT CHANGE IN EMPLOYMENT 1980-1990	LANGUAGE ' LEVEL REQUIRED (GRADE)	LENGTH OF TRAINING REQUIRED 1	JOB CORPS TRAINING FEASIBILITY CODE 2/
61084210	Metal-Spraying-Machine Operator,	505.382.010			4-6	1-7	
(cont.)	Automatic		-d,	— <u></u>		7-31	
	Sprayer Operator	505,682.010		, p. 60 mg	4-6	3 ***	S V ₂ :
	Metal Sprayer, Production	505.684.014	Ē		4-6	3	
	Browning Processor	505.685.010		7. 4	4-6	3 5:	
	Metal-Spraying-Machine Operator,	505.685.014	10		4-6	2	
1.11	Automatic		()				19 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Vacuum-Metalizer Operator	505.685.018	3 .0.		4-6	3	
	Enameler	509.684.010		,	4-6	5	
	Ceramic Coater, Machine	509.685.022			-1-3	2	
	Lacquer-Dipping-Machine Operator	509.685,034			1-3	2	
	Stain Applicator	561.585.010			4-6	2	3.4.7
(62)	Operator, Prefinish	562.685.018	10 m		4-6	<u>- 5</u>	
1	Optical-Glass Silverer	574.484.010			1-3	4	
· \	Silvering Applicator	574.582.010			4-6	5	
	Silverer	574.684.014	1.50		1-3	3 · 1	
	Paint-Spray Tender	574.685.014			1-3	3 4	
.,,		584.685.022			4-6.	.2	
	Paint-Sprayer Operator, Automatic	599.382.010			7-8	5	
	Painter, Electrostatic	599.682.010			7-8	4	
	Lacquerer	599.685.054		18	1=3	3	
4	Paint-Line Operator	599.685.066		The state of the s	446	3 1	
	Painter, Tubling Barrel Painting-Machine Operator	599.685.070 599.685.074			4-6	3	/ 1
	Spray-Machine Tender	599.685.090			4-6		
	Tube Coater	599.685.102			.1-3	2	
**	Coating-Machine Tender	692.685.054	# 1		4-6	2	Wag
·		715.684.138		4	· 1-3.	9	<u></u>
		715.687.026			1-3	2	
		715.687.098			1-3	2	
		732.687.062	<u></u>		1-3	2	
		735.687.018		L A	4-6	2	
		737.687.130	50 h		1-3	, 2	
	Painter, Brush	740.684.022			1-3	2	1
<u> </u>							

The key to the code for length of training required appears at the end of this table. The key to the feasibility code appears at the end of this table.

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				- ·		A. C.	
OES.	JOB TITLES (D.D.T. Titles are Indented)	[¶] D.O.↑:	ABSOLUTE- CHANGE IN EMPLOYMENT 1980-1990,	PERCENT CHANGE IN EMPLOYMENT 1980-1990		LENGTH OF TRAINING REQUIRED 1	JOB CORPS TRAINING FEASIBILITY CODE 2/
61084210	Funnel Coater, Hand Painter,	740.687.0182	25		1-3	;2	
(cont.)	Embossed or Impressed Lettering	740,007,0102			1-3	12 /	
-	Painter, Panel Edge	740.687.022					
	* Painter, Mirror	741.684.022	4.		1-3 4-6		
	Painter, Sprayer 1	741.684.026			4-6 4-6		Vi ,
	Porcelain-Enamel Repairer	741.684.030			1-3	, ,	
/_	Spray-Painting-Machine Operator	741.685.010			1-3	2	
	Painter, Spray 2	741.687.018			1-3 1-3	. <u>4</u>	
	Striper, Spray Gun	741,687.022	. iv		1_1	,	Ţ
and the second	Finisher	749.684.026			1-3	Z	
	Frame Trimmer 1	749.684.030	· .		1-3	. 3	
	Lacquerer	749,684.034		<i>,</i> ,	1-3	3	
	Painter, Touch-Up	749.684.038			1-3	4	
<u>, 19</u>	Dipper and Drier	749.687.010		1.1	1-3	2	
	Keg Varnisher	749.687.014		7 / 1	1-3	, 2	
St.W	Painter, Ski Edge	749.687.022		1	1-3	2	
	Glass Tinter	840.684:010	, r		4-6	5 ~	
	Painter, Transportation Equipment	845.381.014			4-6	6	
· 5 3 44 - 1 2 4 4		e 1 p 20				÷	
40066846	Insurance Clerk, Medical	214.362.022	23,542	34.2	9-12	5	7
, • •				\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
10120402	Dental Hygienists	078.361.010	23,462	39.5	9-12	6	4
Tarka a sha			3 ,				<i></i>
61085205	Sewing Machine Operator, Reg.		23,411	17.2			A
	Equipment Nongarment		,		10°		$=\int_{\mathbb{R}^{n}} \int_{\mathbb{R}^{n}} \int_$
	Splicing-Machine Operator	689.682.018			1-3	4	•
	Sewing Machine Operator	780.682.010	4		1-3	4	
33	Slip-Cover Sewer	780.682.014	9,		1-3	4	
	Upholstery Sewer	780.682.018			4-6	4 -0	_
7	Fur-Machine Operator	783.682.010			4-6	6	
	Sewing Machine Operator	783.682.014		50.16	1-3	. 4	
	Glove Sewer	784.682.010		7	4-6	4 ,	1
	Hat-and-Cap Sewer	784.682.014			1-3'	3	1
	Lamp-Shade Sewer	787.381.010		***	4-6	b * ,	

The key to the code for lighth of training required appears at the end of this table.

The key to the feasibility code appears at the end of this table.

ERIC Pull Text Provided by ERIC

1-3 4-6			ABSOLUTE CHANGE IN EMPLOYMENT 1980-1990	PERCENT CHANGE IN EMPLOYMENT 1980-1990	LANGUAGE LEVEL REQUIRED (GRADE)	LENGTH OF TRAINING REQUIRED 1	JOB CORPS TRAINING FEASIBILITY CODE2/
inder 787.682.010 787.682.010 787.682.010 787.682.018 787.682.026 787.682.026 787.682.034 787.682.034 787.682.034 787.682.034 787.682.034 787.682.034 787.682.034 787.682.034 787.682.034 787.682.034 787.682.042 787.682.042 787.682.042 787.682.042 787.682.042 787.682.042 787.682.045 787.682.045 787.682.045 787.682.055	JOB TITLES	p.0.T. t	1900-1900	**			
Targery Operator	(D.O.T., Titles are			1	1-3	· 24.6	
Tagery Operator		787.682.010	1			4 1	
rapery Operator emmer vereduge Sewer coll-or-Tape-Edge-Machine Operator N87.682.034 787.682.038 787.682.038 787.682.038 787.682.038 787.682.038 787.682.038 787.682.038 787.682.038 787.682.038 787.682.055 Sewing Machine Operator T87.682.062 Sewing Machine Operator Sewing Machine Operator T87.682.066 Sewing Machine Operator T87.682.066 Sewing Machine Operator Sewing Machine Operator T87.682.066 Sewing Machine Operator T87.682.066 T87.682.086 T87.68	nder	787.682.018			1 12 2		*
### 187.682.038 787.682.038 4-6 5 787.682.038 787.682.038 787.682.038 787.682.038 787.682.038 787.682.038 787.682.032 787.682.035 787.682.055 787.682.055 788.084 788.085 787.682.055 788.084 788.086 787.682.055 788.084 788.086 787.682.056 788.084 788.086 787.682.066 788.084 788.086 787.682.067 788.084 788.086 787.682.067 788.084 788.086 787.682.067 788.084 788.086 787.682.086 788.084 788.086 787.682.086 788.084 788.086 787.682.086 788.084 788.086 788.086 788.084 788.086 788.086 788.084 788.086 788.086 788.084 788.086 788.086 788.084 788.086 788.086 788.084 788.086 788.086 788.085 788.086 788.085 788.086 788.085 788.086 788.085 788.086 788.085 788.085 788.085 788.085 788.085 788.085 788.085 788.085 788.085 788.085 788.085 788.085 788.085 788.085 788.085 788.085 788.085 788.085 788.085 788.085 788.085 788.085 788.085 788.085 788.085 788.085 788.085 788.085 788.085 788.085 788.085 788.085 788.085 788.085 788.085	apery Operator	787.682.026	•	1,		3	
veredge Sewer oll-or-Tape-Edge-Machine Operator 787.682.042 787.682.042 787.682.043 787.682.046 Fewing Machine Operator Fewing Machine Oper	mmer	787.682.034				X 4	
Part		787.682.038				5	
Sewing Machine Operator 787.682.054 Sewing Machine Operator 787.682.054 Sewing Machine Operator 787.682.054 Sewing Machine Operator 787.682.062 Sewing Machine Operator 787.682.062 Sewing Machine Operator 787.682.062 Sewing Machine Operator 787.682.070 Sewing Machine Operator 787.68	oll-or-Tape-Edge-Machine	787.682.042				4	
Sewing Machine Operator Shirring-Machine Operator Shirring-Machine Operator Tucking-Machine Operator Tipper Setter Drill Press and Boring Machine Operator Sitors Drill-Press Set-Up Operator, Horizontal Drill-Press Set-Up Operator, Multiple S Drill-Press Set-Up Operator, Forill-Press Operator Drill-Press Operator Drill-Press Operator Drill-Press Set-Up Operator, Forill-Press Set-Up Operator Drill-Press Operator Drill-Press Operator Drill-Press Set-Up Operator, Forill-Press Set-Up Operator, Forill-Press Set-Up Operator, Forill-Press Set-Up Operator, Forill-Press Operator Drill-Press Set-Up Operator, Forill-Press Set-Up Operator, Forill-Press Set-Up Operator, Forill-Press Set-Up Operator, Forill-Press Set-Up Operator Forill-Press Operator Forill-Pres	ewing Machine Operator	787.682.040				3	
187.682.058 187.682.058 1-3 3 4 5 5 5 5 5 5 5 5 5	ewing Machine Operator	787 682 020	\mathcal{G} .	*.:\\J <u> </u>	1 7 . \	4 - 4	
Sewing Machine Operator 787.682.062 1-3 4 58910 Machine Operator 787.682.066 1-3 4 4-6 4 58910 Machine Operator 787.682.070 58910 Machine Operator 787.682.070 1-3 4 4-6	uachine UDCLOCCE : W	787 6B2 058	Jan 1		* .	1 4 =	
Sewing Machine Operator 787.682.000 787.682.000 4-6 4-6 4 787.682.000 787.682.000 1-3 4-6 787.682.000 787.682.000 1-3 4-6 787.682.000 787.682.000 1-3 4-6 787.682.000 787.682.000 1-3 4-6 787.682.000 787.682.000 1-3 4-6 787.682.000 787.	waching uperacor,	787-682.062			1-3	4	
Sewing Machine Operator Sewing Machine Operator Sewing Machine Operator Thoriting-Machine Operator Tipper Setter Drill Press and Boring Machine Operator Boring-Machine Set-Up Operator, Boring-Machine Set-Up Operator, Boring-Machine Set-Up Operator, Boring-Mill Set-Up Operator, Boring-Mill Set-Up Operator, Borill-Press Set-Up Operator, Multiple S Drill-Press Set-Up Operator, Borill-Press Set-Up Operator, Boring-Machine Operator, Boring-Machine Set-Up Operator, Boring-Machine Set-Up Operator, Borill-Press Set-Up Operator, Borill-Press Set-Up Operator, Borill-Press Set-Up Operator, Boring-Machine Operator Single-Spi Singl	uachine Operaco-	787.682.066			1-3	4 7	
Sewing/Machine Operator Shirring-Machine Operator Tucking-Machine Operator Typer Setter Drill Press and Boring Machine Operator Boring-Machine Set-Up Operator, Jig 606.280.014 Boring-Machine Set-Up Operator, Go6.380.014 Boring-Mill Set-Up Operator, Go6.380.014 Drill-Press Set-Up Operator, Multiple S Drill-Press Set-Up Operator, Fiddal Go6.380.018 Drill-Press Set-Up Operator, Go6.380.018 Drill-Press Set-Up Operator, Go6.380.018 Drill-Press Set-Up Operator, Go6.380.018 Drill-Press Set-Up Operator, Go6.682.010 Boring-Machine Operator Drill-Press Operator Drill-Press Operator Drill-Press Set-Up Operator Single SPI Tapper Operator Drill-Press Set-Up Operator Drill-Press Set-Up Operator Drill-Press Set-Up Operator Drill-Press Set-Up Operator Drill-Press Operator Drill-Press Set-Up Operator Drill-Press Operator Drill-Press Set-Up Operator Drill-Press Drill-Press Operator Drill-Press Drill-Press Operator Drill-Press Drill-Press Drill-Press Drill-Press Operator Drill-Press Drill-Press Drill-Press Drill-Press Drill-Press Drill-Press Drill-Press Drill-Press D	, Machine UDELacor	787.682.070	1		I.V.	Ä	
18.6 18.6	The state of the s	787.682.078		1. 1	1-3	4	
Tucking-Machine Operator Zipper Setter Drill Press and Boring Machine Operators ators Boring-Machine Set-Up Operator, Jig 606.280.010 Boring-Machine Set-Up Operator, Horizontal Drill-Press Set-Up Operator, Multiple S Drill-Press Set-Up Operator, Fadial TO Drill-Press Set-Up Operator Drill-Press Operator Drill-Press Set-Up Operator Drill-Press Set-Up Operator Drill-Press Set-Up Operator Drill-Press Operator Drill-Press Set-Up Operator Drill-Press Operator Drill-Press Operator Drill-Press Operator Drill-Press Operator Drill-Press Operator Drill-Press Operat	Wachine Operate	1787.682.082			1-3		
### Prill Press and Boring Machine Opers ators Boring-Machine Set-Up Operator, Jig 606.280.010 606.280.014 7-8 7 Boring-Mill Set-Up Operator, Hadial Drill-Press Set-Up Operator, Hadial TO Drill-Press Set-Up Operator, Padial TO Drill-Press Set-Up Operator, Drill-Press Set-Up Operator, Fig. 606.682.014 606.682.018 7-8 3 ###################################	micking-Machine Operator	787.682.086			\ ~		Total
### Drill Press and Boring Machine Operators 7-8 7 7 7 7 7 7 7 7 7	Zipper Setter		23.081	18.6			
Boring-Machine Set-Up Operator, Jig 606.280.014 Boring-Mill Set-Up Operator, Hadial Drill-press Set-Up Operator, Hadial Entil-press Set-Up Operator, Hadial Drill-press Set-Up Operator, Hadial Drill-press Set-Up Operator, Hadial Control Driller-and-Reamer, Automatic Boring-Machine Operator Boring-Machine Operator Boring-Machine Operator Driller-and-Reamer, Automatic Boring-Machine Operator Drill-press Set-Up Operator Drill-press Set-Up Operator Drill-press Operator Drill-press Set-Up Operator Drill-press Operator Drill-press Set-Up Operator Drill-press Set-Up Operator Drill-press Set-Up Operator Drill-press Operator Drill-press Set-Up Operator Drill-press Set-Up Operator Drill-press Operator Drill-press Set-Up Operator Drill-press Operator Dril	and Boring Machine Oper	5			7-8	7	
### Horizontal ### Ho	rill press and	- coc 280 .010			1	7	
### Horizontal	tors	606 280 014		√ 🛣			•
Horizontal Drill-Press Set-Up Operator, Multiple S Drill-Press Set-Up Operator, Endial TO Driller-and-Reamer, Automatic Drill-Press Operator Drill-Press Operator Drill-Press Operator Drill-Press Operator Drill-Press Operator Drill-Press Set-Up Operator Drill-Press Operator Drill-Press Set-Up Operator Drill-Press Operator Drill-Press Operator Drill-Press Set-Up Operator, Drill-Press Operator Drill-Press Op	Boring-Mill Set-Up Operator,	000.23			7-8	6	
### Drill-Press Set-Up Operator, Fadial 606.380.014		606.380.010	j.			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	and the second
Multiple S Drill-Press Set-Up Operator, Hadial 606.380.018 Drill-Press Set-Up Operator, Radial 606.380.018 Drill-Press Set-Up Operator, Radial 70 Padial TO Driller-and-Reamer, Automatic 606.682.010 Boring-Machine Operator Drill-Press Operator Drill-Press Operator Drill-Press Set-Up Operator, 606.682.018 Single SPI Tapper Operator Tapper Operator Steph-Off to machine	Table Dress Set - Up Operation	$AA = e^{-kx}$		41001.	,	6	
Priller-and-Reamer, Automatic 606.382.010 7-8 606.682.010 4-6 4-6 7-8 606.682.018 7-8 606.682 7-8 606.682 7-8	Multiple S 1	al 606.380.01	4	$J \vdash : \setminus$	7-8		
Priller-and-Reamer, Automatic 606.382.010 7-8 606.682.010 4-6 4-6 7-8 606.682.018 7-8 606.682 7-8 606.682 7-8	Drill-Press Set Tup Operator	(606.380.01	8 / 4	$\mathcal{F}_{\mathbf{A}}$	4-E	4,	•
Padial TO Drillet-and-Reamer, Automatic Boring-Machine Operator Drill-Press Operator Drill-Press Set-Up Operator, Single SPI Tapper Operator	Drill-Press Sec. of	. \			–	3	1 0.
Boring-Machine Operator nrill-press Operator Drill-press Set-Up Operator Single SPI wapper Operator To machine sten-Off to machine	Radial TO . Automatic	606.382.01	0.173			` \ 3'	
Drill-press Operator, 606.682.018 Drill-press Set-Up Operator, 606.682.022 Single SPI Tapper Operator Step-Osf to machine	TOTAL TOTAL CONTRACTOR OF THE	606.602.01	4.		1		
Drill-Press Set-up Single SPI Fapper Operator Sten-Osf to machine		506 682.0	8				
rapper Operator sten-Out to machine	prill-Press Set-Up Operator,	1000.002			7-8	4 .	
rapper Operator	cingle SPI		22				
ster-off to machine	Tanner Operator			0 2/1		and the second	
* Drill press operator is considered a step-of to machine tool operator in Job Corps training programs tool operator in Job Corps training programs	The state of the s		-/	****			
prill press operator is considered a step-on tool operator in Job Corps training programs tool operator in Job Corps training programs	1		a machin	e		• • • • • • • • • • • • • • • • • • • •	
* prill press operator in Job Corps training programs IJI-A-12 tool operator in Job Corps training programs	cons	dered a step-	Ort Teo macinin		79		. * / *
tool oberacon at the second se	* Drill press operation for Corps t	raining progra	T.T.1-A-12		• •		
	tool operator 1		. 🔻			,	



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JOB TITLES (D.O.T. Titles are Indented)	D.O.T.	ABSOLUTE CHANGE IN EMPLOYMENT 1980-1990	PERCENT CHANGE IN EMPLOYMENT 1980-1990	LANGUAGE LEVEL REQUIRED (GRADE)	LENGTH OF . TRAINING REQUIRED 1	JOB CORPS TRAINING FEASIBILITY CODE 2/
Boring Machine Operator, Production	606.685.010	•		4-6	3	
Chamfering-Machine Operator 1 Chamfering-Machine Operator 2 Choke Reamer	606.685.014 606.685.018 606.685.022			4-6 1-3 1-3	3 2 3 ,	
Drill-Press Operator, Production Drilling-Machine Operator, Auto- matic:	606.685.026 606.685.030	- /		1-3 1-3	3.	
Reaming-Machine Tender Driller Collet Driller	606.685.034 700.684.026 715.684.062			1-3 4-6 1-3	3 3 2	
Driller and Broacher Press Operator, Pierce and Shave Reamer, Center Hole	715.685.022 715.685.050 715.687.110			4-6 1-3 1-3	5. 2 2	
Travel Agents Rater, Travel Accom. Travel Agent	168.367.014	21,843	44.7	7-8 7-8	6	5
Peripheral EDP, Equipment Operators Sorting Machine Operator	252.157/010 208.685.030	21,429	44,1	4-6	3	1
Computer Peripheral Equipment Operator Auxiliary Equipment Operator, Data	213.382.010 213.685.010			7-8	4.	
Processing (Washers, Machine and Starchers	361:665.010	19,486	β2.9		4	2
Mail Carrier Rural Mail Carrier	230.367.010 230.363.010	18,577	7.7	7-8 4-6	4 2	3.
Crame, Derrick and Hoist Operators Dross Skimmer Dragline Operator	519.683.010 850.683.018	,17,475	14.0	1-3 4-6	4	3
le de la company			* 2.	<u> </u>	_	

1 The key to the code for length of training required appears at the end of this table.

The key to the feasibility code appears at the end of this table.

III-A-13











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OES &	JOB TITLES (D.O.T. Titles are indented)	D.O.T.	ABSOCUTE CHANGE IN EMPLOYMENT 1980-1990	PERCENT CHANGE IN EMPLOWHENT 1980-1990	LANGUAGE LEVEL REQUIRED (GRADE)	LENGTH OF TRAINING REQUIRED 1,	JOB CORPS TRAINING FEASIBILITY CODE 2/
50140800 (cont.)	Rigger Coal Trimmer Marine Railway Operator Bridge-orGantry-Crane Operator Cherry-Picker Operator	869.683.014 911.687.018 921.662.022 921.663.010 921.663.014			4-6 1-3 4-6 4-6	4 3 5	
	Derrick Operator Hoist Operator Hoisting Engineer VIrradiated-Fuel Handler Focomotive-Crane Operator	921.663.022 921.663.026 921.663.030 921.663.034 921.663.038			1-3 4-6 1-3 1-3 4-6	4 - 4 - 5 - 5 - 5	
	Monorail Crane Operator Pneumatic-Hoist Operator Scraper-Loader Operator Tower-Crane Operator Tractor-Crane Operator	921.663.042 921.663.046 921.663.050 ,921.663.054 921.663.058			1-3 1-3 4-6 4-6 1-3	3 4 5	
	Truck-Crane Operator Yarding Engineer Boat-Hoist Operator Cantilever-Crane Operator Cupola Hoist Operator	921.663.062 921.663.066 921.683.010 921.683.018 921.683.030			1-3 4-6 1-3 4-6 4-6	5, 6 3 5	
) , 1	Derrick-Boat Operator Hydraulic-Boom Operator Log Loader Skip Operator Sorting-Grapple Operator	921.683.034 921.683.046 921.683.058 921.683.062 921.683.066			 4-6 1-3 4-6 4-6 4-6 	5 3 4 4	0.00
	Tower-Loader Operator Winch Driver Yard Worker Boat Loader 2 Electric-Fork Operator	921.683.074 921.683.082 921.683.086 921.685.010 921.685.042			7-8 4-6 1-3 1-3	$\begin{pmatrix} \frac{1}{2} \\ \frac{4}{3} \\ \frac{3}{2} \end{pmatrix}$	
40061804	Hoist Operator Dispatchers, Vehicle Service or Work	932,363.010	16,733	18:7	4-6-	5	7

The key to the code for length of training required appears at the end of this table.

The key to the feasibility code appears at the end of this table.

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OES	JOB TITLES - (D.O.T. Toges are Indented)	ABSOLUTE CHANGE IN EMPLOYMENT 1980-1990	CHANG SAV.	LANGUAGE LEVEL REQUIRED (GRADE)	LENGTH OF TRAINING REQUIRED 1	JOB EORPS TRAINING FEASIBILITY CODE 2/
40061804 (cont.)	Dispatcher, Maintenance Service Receiver-Dispatcher Routing Clork Bus Dispatcher, Interstate Taxicob Starter Dispatcher, Traffic or System Dispatcher, Oil Well Service Dispatcher, Service or Work Water Service Dispatcher	239.367.014 239.367.022 240.367.070 913.167.010 919:162.010 939.362.010 952.167.010		7-8 7-8 7-8 7-8 4-6 7-8 7-8 7-8	3. 7. 5. 7.	
40062602 50142205	Personnel Clerks Civil Service Clerk Employment Clerk Identification Clerk Insurance Clerk 2 Personnel Clerk Testers (Contains 144 D.O.T. codes,	959.167.010 205.362.010 205.362.014 205.362.022 205.567.010 209.362.026	17.5 13.4	7-8 7-8 9-12 7-8 7-8 9-12	3 5 3 4	5
76080401	Recreation Facility Attendant Skate Shop Attendant Caddie Golf Range Attendant Cardroom Attendant Floor Attendant	341.367.010 14.094 341.464.010 341.665.010 341.683.010 343.467.010 343.467.014	20.5	7-8 4-6 7-8 4-6 4-6 1-3	3 3 3 2 2 4	2
	Cardroom Attendant 2 . Cabaha Attendant Line key to the code for lengther	343.577.010 349.677.010	t the and of	4-6 4-6	3	

The key to the code for learning training required appears at the end of this table.

111-A-1

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	JOB TITLES		ABSOLUTE CHANGE IN • EMPLOYMENT	PERCENT: CHANGE IN EMPLOYMENT	LANGUAGE LEVEL REQUIRED	LENGTH OF	JOB CORPS TRAINING FEASIBILITY
OES	(D.O.T. Titles are Indented)	D.O.J.	1980-1990	1980-1990	(GRADE)	REDITRED1	
50140400	Cabinetmaker Cabinetmaker Apprent.	660.280.010 660.280.014	13,710	26.7 **	7-8 7-8	6 6	3
70120600	Housekeepers, Private -Housekeeper, Home	301:137.010 309:137.010	13,064	15.2	4-6 (, . 4-6	6	
7 50023600 7 50023600	ser Second Gelers Rosper	3 6 9.674.010 866.381.010	@12,391	16.0	44-6 44-6		3.4
2	Roofer Applicator	866.381.014 866.684.010 079.374.022	12,340	19.0	4-6 4-6 7-8	6	10
10121002	Sergical Technician Proof Machine Operator	217.382.010	12,304	25.9	4-64	4	
10222201	Announcer Disc Jockey Dental Lab Technicians	159:147.010 169:147.014 712:289:010	11,838	27.8	9-12) Coll: 9-12	5 1.	4.
50141200 40066841	Credit Clerks, Banking and Insur- k	712.281.010	11,245	22.4	7-0		7
	Mortgage Processing Clerk	203.382.022 205.367.022 241.267.022 249.382.010			9-12 9-12 5.: 7-8	7 7 5X	
40066823	Statement Clerk	219.362.058	11,031	33.9	8	4	7.
						r	

The key to the code for length of training required appears at the end of his table.

The jey to the feasibility code appears at the end of this table.

Code Key for Appendix III-A Column 7: Length of Training Required: EXPLANATION No instruction needed Introductory instruction Less than 3 months 3 to 6 months. 6 months to 1 year · 1 to 2 years Over 2 years 88

355.374.010

913.683.010

Ambulance Attendant

Ambulance Driver.

111-A-17

This occupation is continered to be a part of machine tool operator training.

This occupation is an extension of magnine tool operator, and which Job Corps is alleady providing training.

Code Key for Appendix III-A

*Column 8: Feasibility of New Training Offerings for Job Corps

CODE

EXPLANATION

- This occupation is recommended for further consideration as a possible Job Corps training offering.
- 2 This job requires little or no training time
- 3 * The job requires specialized OJT training when best be provided by the industry.
- The level of training required for this occupation is beyond.
- While a specific level of education is not required for this job in all cases; employers hire individuals with a more advanced educational or training level.
- 6 Age requirements preclude this occupation as a training offering in Job Corps.

Not enough information was available to recommend this occupation.





