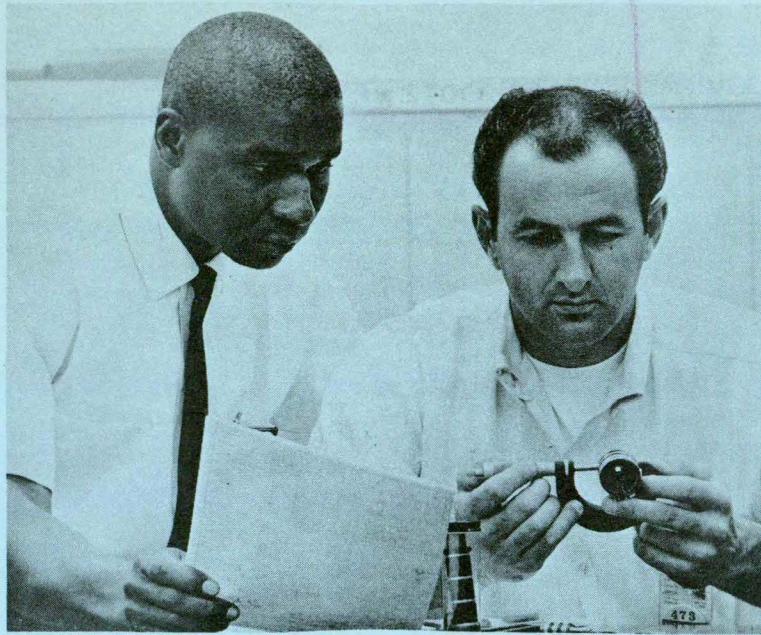
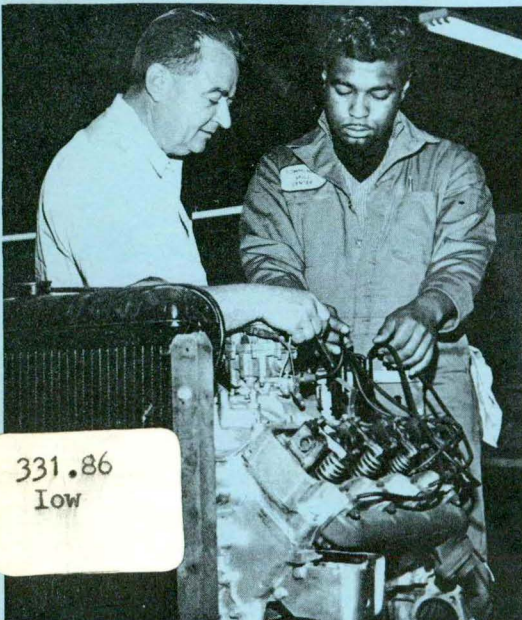


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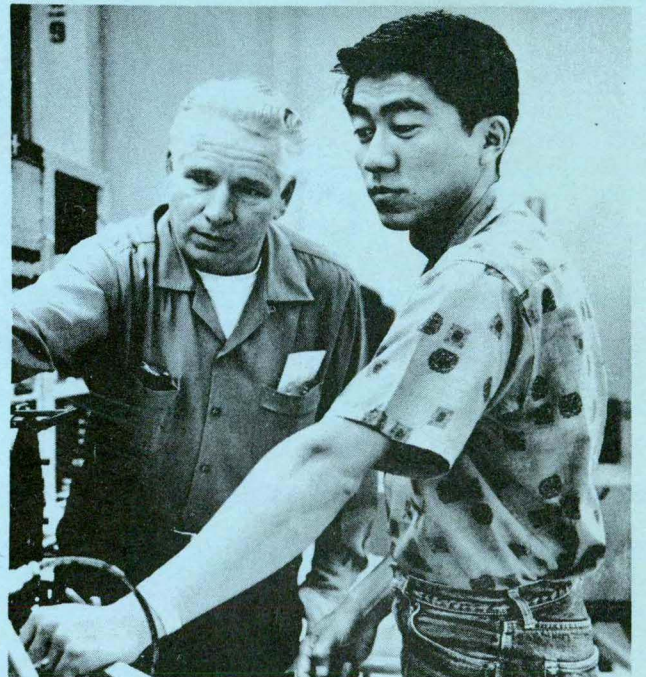


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OPPORTUNITIES APPRENTICESHIP AND SKILLED TRADES IN IOWA



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ACKNOWLEDGEMENTS

The author appreciates the contribution made by the Iowa Manpower Development Council Staff for their assistance in the collection and organization of data that appears in this resource book. The Iowa State Employment Security Commission and the Bureau of Apprenticeship and Training have also been helpful in providing assistance and information for this project.

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OPPORTUNITIES
IN APPRENTICESHIP AND SKILLED TRADES
IN IOWA

APRIL 1967

IOWA MANPOWER DEVELOPMENT COUNCIL

Harold E. Hughes, Governor
John M. Ropes, Director

PREFACE

It is the purpose of Opportunities in Apprenticeship and Other Skilled Trades to acquaint individuals with programs in the apprenticeship and building trade field that are registered with the Bureau of Apprenticeship and Training within the State of Iowa. Individuals, who can provide additional information with respect to an apprenticeship program or skilled trade, have been included as contact sources. These individuals will provide additional information relevant to: (1) date, time, and place for making out an application, and (2) number of openings for the particular apprenticeship or skilled trade. As a further source, the employment office or the Bureau of Apprenticeship and Training should prove valuable as sources for additional information. The data for this resource book was obtained from: (1) Occupational Outlook Handbook; (2) Guide to the Use of the General Aptitude Test Battery; (3) Bureau of Apprenticeship and Training, U. S. Department of Labor, 413 Court Street, Des Moines, Iowa

Frank B. Robinson, Jr.
Manpower Specialist
Iowa Manpower Development
Council

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FAIR EMPLOYMENT PRACTICES

Entry opportunities for minority persons into many of the apprentice programs listed herein have been virtually non-existent. It is hoped that those who utilize this information will encourage all individuals who have the interest and aptitude to take advantage of Opportunities in Apprentice and Skilled Trades in Iowa.

The author prevailed upon Commissioner Samuel C. Jackson of the Federal Equal Employment Opportunity Commission, administrators of Title Seven of the 1964 U. S. Civil Rights Act to make some comments relative to the utilization of this source book. Following Commissioner Jackson's comments are portions of Title Twenty-nine, which pertains to non-discrimination in apprenticeship and training and section seven of the Iowa Civil Rights Act which has reference to employment.

"A major component of America's economy, the construction industry accounted for 11 per cent of our gross national product in 1965 (72 billion dollars). Construction activity has a widespread impact on other sectors of the economy, generating employment opportunities both directly and indirectly in many industries. For each million dollars of new construction, 60 workers are employed for one year in industries that produce, sell, and deliver the materials it requires.

By 1975, more than one-half million jobs will be available to skilled workers--an increase of nearly 40 per cent over the number of such jobs in 1965--accounting for nearly half of all employees in the construction industry. At the same time, the number of unskilled jobs will decrease sharply. These optimistic forecasts for growth make it immeasurably important that young men--especially Negro, Indian, and Spanish-speaking youth who are conspicuously absent from most skilled crafts--seek and complete training for the skilled trades following high school graduation.

Old, discriminatory barriers to entry into the crafts are falling. Today's apprentices will be tomorrow's skilled workmen. We must act now to assure that

opportunities are available on an equal basis to those who will help America continue to grow."

Samuel C. Jackson, Commissioner
Equal Employment Opportunity
Commission
Washington, D. C.

Title Twenty-Nine (Section 30.3)

Each apprenticeship program registered with the Bureau of Apprenticeship and Training shall operate on the basis of the following standards:

- (a) The selection of apprentices on the basis of qualifications alone, in accordance with objective standards which permit review after full and fair opportunity for application, unless the selection otherwise made would themselves demonstrate that there is equality of opportunity.
- (b) The taking of whatever steps are necessary, in action upon application lists developed prior to this time, to remove the effects of previous practices under which discriminatory patterns of employment may have resulted.
- (c) Non-discrimination in all places of apprenticeship and employment during apprenticeship after selections are made.

Iowa Civil Rights Act (Section 7)

It shall be an unfair or discriminatory practice for any:

- (a) Person to refuse to hire, accept, register, classify or refer for employment, to discharge any employee or to otherwise discriminate in employment against any applicant for employment or any employee because of the race, creed, color, national origin, or religion of such applicant or employee.
- (b) Labor organization or the employee, agents, or members therefor to refuse to admit to membership any applicant, to expel any member, or to otherwise discriminate against any applicant for membership or any member in the privileges, rights or benefits of such membership because of the race, creed, color, national origin, or religion of such applicant or member.

EXPLANATION OF CATEGORIES

Each apprenticeable occupation and skilled trade that appears in this informational source is described in terms of six categories: (1) usual duties; (2) qualifications; (3) occupational aptitude test pattern; (4) length of apprenticeship; (5) wage; (6) contact person for additional information. An explanation of these categories appears on this and the following page.

Usual Duties. Describes the general responsibilities and duties of the apprentice during training and while under supervision of a journeyman.

Qualifications. Where information was available for this category, age limits and physical prerequisites are included along with the general academic requirements for the apprentice program or skilled trade being discussed.

Occupational Aptitude Pattern (OAP). Occupational norms are shown in terms of a structure consisting of a series of occupational aptitude patterns. Each occupational aptitude pattern consists of the most significant aptitude and the critical scores on these aptitudes established as minimum scores for a group of occupations having a similar aptitude requirement. For example, the OAP for a sheet metal worker is, Spatial Aptitude 16 percentile; Finger Dexterity 31 percentile; Manual Dexterity 23 percentile. A percentile of 16 means that the individual whose test performance rates that score exceeds the performance of 16 percent of the group taking the test. It is suggested, however, that the reader be particularly cautious about generalizing upon the isolated OAP scores which serve as only one indication of an individual's potential abilities.

Length of apprenticeship. Apprenticeship programs range from six months to five years. Many apprentice programs include classroom instructions as well as on-the-job training with performance in the former serving as a good indication of an individual's abilities, aptitude and interest for the apprenticeship or skilled trade.

Wage. The wage represents the going national rate for a qualified journeyman or skilled tradesman. This amount fluctuates from state to state and occasionally within the state, dependent upon the rate established by the Joint Apprenticeship Committee. An apprentice generally receives between 50 and 65 percent of the wage rate for a journeyman to start and this percentage increases during the period of apprenticeship. During the final months of apprenticeship an individual can make up to 95 percent of the going journeyman's wage rate.

Contact Sources. Many of the individuals listed under this category have, or are now serving on individual or Joint Apprenticeship Committees. These individuals are experienced and knowledgeable about their particular trade and should be utilized as a resource for additional information.

E R R A T A

II - Explanation of Categories

Length of Apprenticeship. Apprenticeship Programs range from two to five years.

A P P R E N T I C E P R O G R A M S
A N D S K I L L E D T R A D E S

A U T O - B O D Y R E P A I R M E N

USUAL DUTIES

The apprentice auto-body repairman will receive instruction and on-the-job training for: (1) removing dents in body and fenders; (2) filling bad dents and cracks with solder; (3) installing new fenders, hoods, panels, window glass and window-shields and welding breaks in the body of the car.

QUALIFICATIONS

The auto-body repairman and painter does not necessarily have to possess a high school diploma. A beginner should be in good physical condition and have a good eye-hand coordination. Courses in automobile body repair are offered by a relatively small number of high schools, but vocational schools and private trade schools provide valuable training, as do courses in automobile mechanics.

OCCUPATIONAL APTITUDE PATTERN (OAP)

<u>OAP</u>	<u>Percentile Cutting Score</u>	
	<u>ADULT</u>	<u>YOUTH</u>
G (Intelligence)	50	
S (Spatial Aptitude)	50	
M (Manual Dexterity)	31	

HOURLY WAGE RATE

\$ 3.60 - \$ 3.80

LENGTH OF APPRENTICESHIP

Three to four years

CONTACT SOURCES - For additional information

<u>Name</u>	<u>Address</u>	<u>City</u>
Fox, Chase A.	109-15th St., N.E.	Cedar Rapids, Iowa
Freund, Maynard	411 Grand Avenue	Des Moines, Iowa

CONTACT SOURCES (Continued)

<u>Name</u>	<u>Address</u>	<u>City</u>
Harlan, E. W.	1914 E. Euclid	Des Moines, Iowa
Havens, Kenneth	320 Sixth Avenue S.	Clinton, Iowa
Helms, Tom	810 W. River Drive	Davenport, Iowa
Johnson, L. E.	611 N. 2nd Street	Clinton, Iowa
Kees, E.R.	1440 Locust	Des Moines, Iowa
Knopp, Jack P.	K & P Chevrolet-Olds Company	Monticello, Iowa
McPherson, C. C.	Box 1071-Highway 20 East	Fort Dodge, Iowa
Mirriegers, D. F.	3633 Falls Ave.- Box 142	Waterloo, Iowa
Storsch, L. G.	3423 Brady Street	Davenport, Iowa
Stringer, Kenneth	324 W. 4th Street	Davenport, Iowa
Watkins, Morris	100 4th Avenue S.	Clinton, Iowa
Zabriski, George	Zabriski's Garage	Fayette, Iowa

A U T O M O B I L E M E C H A N I C S

USUAL DUTIES

The apprentice auto-mechanic will, under supervision, perform the following tasks: (1) keep automobiles, small trucks, and buses in good running order; (2) do preventative maintenance, diagnose breakdowns and replace worn out or broken parts; (3) overhauls engines, transmissions, clutches, rear ends and other assemblies.

QUALIFICATIONS

Age: 18 - 35

Education: Possess a high school diploma or have met the requirements for a high school equivalency certificate and receive a satisfactory rating by the Joint Apprenticeship Committee. The automobile mechanic should have an understanding of automobile construction and operation, like mechanical work and have mechanical aptitude-a driver's license is generally required. This applicant should also have a background in automobile repair, gained from working as a gasoline service station attendant, training in the Armed Forces, or experience repairing automobiles as a hobby is valuable. Courses in automobile repair offered by many high schools, vocational schools and private trade schools are also valuable.

OCCUPATIONAL APTITUDE PATTERN (OAP)

OAP	Cutting Percentile Score	
	ADULT	YOUTH
G (Intelligence)	40	40
S (Spatial Aptitude)	23	22
F (Finger Dexterity)	11	11

HOURLY WAGE RATE

\$3.40 - \$3.60

LENGTH OF APPRENTICESHIP

Three to four years

CONTACT SOURCES - For additional information

<u>Name</u>	<u>Address</u>	<u>City</u>
Fox, Chase A.	109-15th St., N.E.	Cedar Rapids, Iowa
Freund, Maynard	411 Grand Avenue	Des Moines, Iowa

CONTACT SOURCES (Continued)

<u>Name</u>	<u>Address</u>	<u>City</u>
Harlan, E. W.	1914 E. Euclid	Des Moines, Iowa
Havens, Kenneth	320 Sixth Avenue S.	Clinton, Iowa
Helms, Tom	810 W. River Drive	Davenport, Iowa
Johnson, L. E.	611 N.2nd Street	Clinton, Iowa
Kees, E. R.	1440 Locust	Des Moines, Iowa
Knopp, Jack P.	K & P Chevrolet- Olds Company	Monticello, Iowa
McPherson, C. C.	Box 1071-Highway 20, East	Fort Dodge, Iowa
Mirriegers, D. F.	3633 Falls Ave.- Box 142	Waterloo, Iowa
Storsch, L. G.	3423 Brady Street	Davenport, Iowa
Stringer, Kenneth	324 W. 4th Street	Davenport, Iowa
Watkins, Morris	100 4th Avenue S.	Clinton, Iowa
Zabriski, George	Zabriski's Garage	Fayette, Iowa

B L A C K S M I T H S

USUAL DUTIES

The apprenticeship blacksmith will work under close supervision of a journeyman blacksmith for the purpose of: (1) making and repairing many different kinds of metal articles and parts, such as forging tongs and other tools, machine frames, automobile parts, and other industrial and agricultural equipment; (2) sharpening hand and machine tools, such as chisels, drills and picks; (3) shaping and joining together glowing hot metal which has been heated in a special type of furnace called a forge.

QUALIFICATIONS

Education: Possess a high school diploma or have met the requirements for a high school equivalency certificate and receive a satisfactory rating by the Joint Apprenticeship Committee. Vocational school or high school courses in metal working, blueprint reading and mathematics are helpful.

HOURLY WAGE RATE

\$2.50 - \$3.00

LENGTH OF APPRENTICESHIP

Three to four years

CONTACT SOURCES - For additional information

<u>Name</u>	<u>Address</u>	<u>City</u>
Kuhl, M. B.	Clinton Corn Processing Company	Clinton, Iowa

B O I L E R M A K E R

USUAL DUTIES

The apprentice boilermaker will work under close supervision of a journeyman boilermaker for the purpose of specializing in the repairing, lubricating and assembling of boilers, tanks, vats, pressure vessels, heat exchanges and similar vessels made of metal plate, and repairing and erecting boilers and vessels. The layout men are usually employed in manufacturing new boilers and heavy tanks.

QUALIFICATIONS

Education: Possess a high school diploma or have met the requirements for a high school equivalency certificate and receive a satisfactory rating by the Joint Apprenticeship Committee. Other qualifications are training in mathematics, blueprint reading and shopwork, mechanical aptitude and manual dexterity. A physical examination must be passed.

OCCUPATIONAL APTITUDE PATTERN (OAP)

<u>OAP</u>	<u>Cutting Percentile Score</u>	
	<u>ADULT</u>	<u>YOUTH</u>
G(Intelligence)	93	
N(Numerical Aptitude)	84	
S(Spatial Aptitude)	84	

HOURLY WAGE RATE

\$4.70 - \$4.90

CONTACT SOURCES - For additional information

<u>Name</u>	<u>Address</u>	<u>City</u>
Bloom, G. R.	1628 W. 4th St.	Davenport, Iowa
Kuhl, M. B.	Clinton Corn Processing Co.	Clinton, Iowa
Myers, Arlo A.	1106 Washington St.	Burlington, Iowa
Reimer, Edward G.	P. O. Box 4255	Minneapolis, Minn.

BRICKLAYERS

USUAL DUTIES

The apprentice bricklayer will work under close supervision of a journeyman bricklayer for the purpose of: (1) constructing walls, partitions, fireplaces, chimneys and other structures of brick; (2) precasting panels made of brick, cement, tile, stone or marble; (3) installing brick lining for industrial kilns and furnaces.

QUALIFICATIONS

Age: 18 - 24

Education: Possess a high school diploma or have met the requirements for a high school equivalency certificate and receive a satisfactory rating by the Joint Apprenticeship Committee.

OCCUPATIONAL APTITUDE PATTERN (OAP)

<u>OAP</u>	<u>Cutting Percentile Score</u>	
	<u>ADULT</u>	<u>YOUTH</u>
G (Intelligence)	31	27
N (Numerical Ability)	40	40
M (Manual Dexterity)	11	11

HOURLY WAGE RATE

\$4.70 - \$4.90

LENGTH OF APPRENTICESHIP

Four Years

CONTACT SOURCES - For additional information

<u>Name</u>	<u>Address</u>	<u>City</u>
Alter, Ralph	1808 Grube Street	Burlington, Iowa
Bane, Orran N., Jr.	472 Loma	Waterloo, Iowa
Baker, Gerald E.	2906 "C" Ave.NE	Cedar Rapids, Iowa
Bouher, Lester	2430-7th	Sioux City, Iowa
Farrell, Robert	1118 Mulberry	Des Moines, Iowa
Huff, Kenneth	1112 S.19th	Fort Dodge, Iowa
Netcott, Ralph	108 High Street	Ames, Iowa
Wells, Thomas H.	RFD 6	Ottumwa, Iowa
Wendland, Leo	520 - 24th	Rock Island, Illinois

C A R P E N T E R S

USUAL DUTIES

The apprentice carpenter will work under close supervision of a journeyman carpenter for the purpose of: (1) erecting the wood framework in building, including sub-flooring, sheathing, partitions, floor joists, studding and rafters; (2) installing molding, wood paneling, cabinets, window sash, door frames, doors and hardware, as well as build stairs and lay floors; (3) installing heavy timbers used in constructing docks, railroad trestles, and similar installations; (4) building forms to enclose concrete until it sets; (5) erecting scaffolding and temporary buildings on the construction site; (6) installing linoleum, asphalt, tile and similar soft-floor coverings; (7) sawing, fitting and assembling plywood, wallboard and other materials.

QUALIFICATIONS

Age: 17 - 25

Education: Possess a high school diploma or have met the requirements for a high school equivalency certificate and receive a satisfactory rating by the Joint Apprenticeship Committee. The applicant must also be in good physical condition, have a good sense of balance and not have fear of working on structures high off the ground. Manual dexterity and the ability to solve arithmetic problems quickly and accurately are also important aptitudes.

OCCUPATIONAL APTITUDE PATTERN (OAP)

<u>OAP</u>	<u>Cutting Percentile Score</u>	
	<u>ADULT</u>	<u>YOUTH</u>
N (Numerical ability)	16	15
S (Spatial aptitude)	31	30
M (Manual Dexterity)	16	16

HOURLY WAGE RATE

\$4.35 - \$4.55

LENGTH OF APPRENTICESHIP

Four years

CARPENTERS (continued)

CONTACT SOURCES - For additional information

<u>Name</u>	<u>Address</u>	<u>City</u>
Boe, Anthony	321 5th Street	Sioux City, Iowa
Cochran, Burdette	908 8th Street	Des Moines, Iowa
Edwards, Earl E.	1266 Wilson Ave.SW	Cedar Rapids, Iowa
Flynn, Ambrose	218 10th NW	Mason City, Iowa
Jones, G. L.	110 $\frac{1}{2}$ South Court St.	Ottumwa, Iowa
Kaiser, Vincent J.	576 Central Ave.	Dubuque, Iowa
McCracken, K. J.	1827 Boone Street	Boone, Iowa
Machande, Art	613 S. Second St.	Clinton, Iowa
Olson, Erling	1815 Des Moines	Burlington, Iowa
Schuler, Ted	243 Duryea Street	Waterloo, Iowa
Thompson, Kenneth	P. O. Box 373	Ames, Iowa
Tracey, Ray	1230 S. 28th Street	Fort Dodge, Iowa
Wendland, Leo	520 24th Street	Rock Island, Illinois
Winans, M. A.	303 S. 21st Street	Centerville, Iowa

C E M E N T F I N I S H E R S

USUAL DUTIES

The apprentice cement finisher will work under close supervision of a journeyman cement finisher for the purpose of: (1) finishing the exposed concrete surfaces on many types of construction projects-patios, floors, sidewalks, dams, highways and airport runways; (2) pouring of concrete mixture and leveling the surface with a "straight-edge"; (3) working with a "float" and other hand tools to fill depressions and remove high spots and drawing cement to the surface of the mixture in preparation for final finishing operations.

QUALIFICATIONS

Age: 18 - 25

Education: A high school education is not required, but education above grade school level, including mathematics, is needed to understand the classroom instruction. The applicant must be in good physical condition and have manual dexterity, and receive a satisfactory rating by the Joint Apprenticeship Committee.

HOURLY WAGE RATE

\$4.25 - \$4.45

LENGTH OF APPRENTICESHIP

Three years

CONTACT SOURCES - For additional information

<u>Name</u>	<u>Address</u>	<u>City</u>
Erickson, Richard	1125 Upton	Waterloo, Iowa
Farrell, Robert E.	1118 Mulberry	Des Moines, Iowa

DECORATORS AND
INTERIOR DESIGNERS

USUAL DUTIES

The apprentice decorators and interior designers will work under close supervision of a journeyman decorator and interior designer for the purpose of: (1) enhancing the attractiveness of homes and other buildings; (2) planning the functional arrangement of interior space and coordinating the selection of furniture, draperies, floor coverings and interior accessories; (3) working on the interiors of residential or commercial structures, including ships and aircrafts; (4) designing stage sets used for motion pictures and television. Interior designers are more concerned than decorators with space planning and other interior design and they often work for clients on large design projects, such as the interior of an entire office building.

QUALIFICATIONS

Education: The minimum educational requirement is completion of either a two or three year course at a recognized art school, or institute specializing in interior decorating and design, or one may pursue a four year college course leading to a Bachelor of Fine Arts Degree with a major in interior design and decoration. Only professionally trained people are accepted for beginning jobs and in most instances, from one to three years of on-the-job training is required before a trainee is considered eligible for advancement to the job of decorator.

HOURLY WAGE RATE

\$2.40 - \$3.37

LENGTH OF APPRENTICESHIP

One to three years

CONTACT SOURCES - For additional information

<u>Name</u>	<u>Address</u>
Blankenship, Chick	917 - 9th Street Sioux City, Iowa
Clifford, Lyle	5110 "J" Street, S.W. Cedar Rapids, Iowa
Hayden, Floyd	6404 School Street Des Moines, Iowa
Newton, Clifford J.	2837 E. 4th St. Waterloo, Iowa

D E N T A L T E C H N I C I A N S

USUAL DUTIES

The apprentice dental technician will work under close supervision of a journeyman dental technician for the purpose of: (1) making artificial dentures, crowns, bridges and other dental and orthodontal appliances; (2) forming models in dental stone from impressions of patient's mouths taken by dentists; (3) making metal castings for dentures, polishing and finishing dentures; (4) constructing metal or porcelain crowns or inlays for partially destroyed teeth, and making appliances to correct such abnormalities as cleft palates.

QUALIFICATIONS

Education: Possess a high school diploma or have met the requirements for a high school equivalency certificate and receive a satisfactory rating by the Joint Apprenticeship Committee.

HOURLY WAGE RATE

\$2.00 - \$3.75

LENGTH OF APPRENTICESHIP

Three to four years

CONTACT SOURCES - For additional information

<u>Name</u>	<u>Address</u>	<u>City</u>
Jackson, Albert P.	514 Shops Building	Des Moines, Iowa

E L E C T R I C I A N S
(CONSTRUCTION)

USUAL DUTIES

The apprentice electrician will work under close supervision of a journeyman electrician for the purpose of:
(1) laying out, assembling, installing and testing electrical fixtures, apparatus, and wiring used in electrical systems on construction projects. These systems are used to provide heat, light, power, air-conditioning, and refrigeration in residences, office buildings, factories, hospitals, schools, etc; (2) installing and connecting electrical machinery, equipment, controls and signal and communications systems.

QUALIFICATIONS

Age: 18 - 24

Education: Possess a high school diploma or have met the requirements for a high school equivalency certificate and receive a satisfactory rating by the Joint Apprenticeship Committee. Courses in mathematics and physics are desirable and applicants are usually required to take tests to determine their aptitude for the trade.

OCCUPATIONAL APTITUDE PATTERN (OAP)

<u>OAP</u>	<u>Cutting Percentile Score</u>	
	<u>ADULT</u>	<u>YOUTH</u>
N (Numerical Ability)	31	
S (Spatial Ability)	100	
F (Finger Dexterity)	85	

HOURLY WAGE RATE

\$4.65 - \$4.85

LENGTH OF APPRENTICESHIP

Four years with 144 hours of related classroom instruction each year.

CONTACT SOURCES - For additional information

<u>Name</u>	<u>Address</u>	<u>City</u>
Bachtell, Tom	P. O. Box 283	Burlington, Iowa

ELECTRICIANS (Continued)

<u>Name</u>	<u>Address</u>	<u>City</u>
Dewald, Glen	317 Sixth St. SW	Cedar Rapids, Iowa
Hazer, Greg	1638 Central Ave.	Dubuque, Iowa
McGinnis, Thomas P.	715 Pacific St.	Sioux City, Iowa
Moen, Al	% Dewey Electric	Ventura, Iowa
Reeves, Rodney	2615 Ingersoll	Des Moines, Iowa
Trave, John	935 S. E. 14th St.	Des Moines, Iowa
Workman, Ralph	107 North Moore St.	Ottumwa, Iowa
Yeager, Richard	223 - 18th Street	Rock Island, Illinois

ELECTRONIC TECHNICIAN (E.T.C.)

USUAL DUTIES

The apprentice electronic technician will work under close supervision of a journeyman electronic technician for the purpose of: (1) making radios, radar, sonar, telemetering, television and telephones; (2) making industrial and medical measuring, recording, indicating and controlling devices. One might also design navigational equipment, missile and spacecraft guidance and control instruments, electronic computers, and many other types of equipment using vacuum tubes and semi-conductor circuits.

QUALIFICATIONS

Education: Possess a high school diploma or have met the requirements for a high school equivalency certificate and receive a satisfactory rating by the Joint Apprenticeship Committee. Applicants should have a sound background in mathematics and science. The majority of programs offered by schools specializing in post-high school technology are two year programs leading to an associate of arts or science degree.

OCCUPATIONAL APTITUDE PATTERN (OAP)

<u>OAP</u>	<u>Cutting Percentile Score</u>	
	<u>ADULT</u>	<u>YOUTH</u>
G(Intelligence)	69	
S(Spatial Aptitude)	50	
P(Form Perception)	50	

HOURLY WAGE RATE

\$3.80 - \$4.40

CONTACT SOURCES - For additional information

<u>Name</u>	<u>Address</u>	<u>City</u>
Pohl, Clark E.	Don's Radios & T. V.	Perry, Iowa

F L O O R C O V E R E R S

USUAL DUTIES

The apprentice floor coverer will work under close supervision of a journeyman floor coverer for the purpose of: (1) installing, replacing, and repairing resilient tile, linoleum and other sheet goods, and carpeting on floors in residential, commercial, and industrial buildings; (2) working on wood, concrete, metal and stone floors, both large and small; (3) inspecting to determine whether the floor is ready for the treatment it is going to receive.

QUALIFICATIONS

Age: 17 - 30

Education: High school education is preferred but not required, and the individual must receive a satisfactory rating by the Joint Apprenticeship Committee. Manual abilities are necessary, along with a neat appearance and pleasant business like manner, because the work is performed on the customer's premises.

OCCUPATIONAL APTITUDE PATTERN (OAP)

<u>OAP</u>	<u>Cutting Percentile Score</u>	
	<u>ADULT</u>	<u>YOUTH</u>
G(Intelligence)	40	
N(Numerical Ability)	50	
M(Manual Dexterity)	11	

HOURLY WAGE RATE

\$3.50 - \$4.50

LENGTH OF APPRENTICESHIP - Three to four years

CONTACT SOURCES - For additional information

<u>Name</u>	<u>Address</u>	<u>City</u>
Olson, Erling	1815 Des Moines	Burlington, Iowa

G L A Z I E R S

USUAL DUTIES

The apprentice glazier will work under close supervision of a journeyman glazier for the purpose of: (1) engaging in construction work, cutting, fitting and installing plate glass, ordinary window glass, mirrors, and special items such as leaded glass panels; (2) cutting glass to size or using pre-cut glass.

QUALIFICATIONS

Age: 18

Education: Possess a high school diploma or have met the requirements for a high school equivalency certificate and receive a satisfactory rating by the Joint Apprenticeship Committee.

OCCUPATIONAL APTITUDE PATTERN (OAP)

<u>OAP</u>	<u>Cutting Percentile Score</u>	
	<u>ADULT</u>	<u>YOUTH</u>
G(Intelligence)	40	
S(Spatial Aptitude)	60	
P(Form Perception)	31	

HOURLY WAGE RATE

\$4.10 - \$4.30

LENGTH OF APPRENTICESHIP - Three years

CONTACT SOURCES - For additional information

<u>Name</u>	<u>Address</u>	<u>City</u>
Holbach, Lewis Miller, W. A.	243 Duryea Street c/oPittsburgh Plate Glass Company	Waterloo, Iowa

INDUSTRIAL FACTORY MACHINE REPAIRMEN - MAINTENANCE MECHANICS

USUAL DUTIES

The apprentice industrial factory machine repairmen and maintenance mechanics will work under close supervision of a journeyman industrial factory machine repairman and maintenance mechanic for the purpose of: (1) keeping machinery and equipment in good operating condition; (2) determining the cause of trouble when breakdowns occur and making necessary repairs; (3) completely or partly disassembling a machine in order to repair and replace defective parts; (4) making necessary mechanical adjustments after the machine is reassembled in order to insure its proper operation; (5) regularly inspecting equipment, oiling and greasing machines and cleaning and repairing parts to prevent trouble which could cause breakdown later.

QUALIFICATIONS

Education: Possess a high school diploma or have met the requirements for a high school equivalency certificate and receive a satisfactory rating by the Joint Apprenticeship Committee.

OCCUPATIONAL APTITUDE PATTERN (OAP)

OAP	Cutting Percentile Score	
	ADULT	YOUTH
G(Intelligence)	16	16
N(Numerical Aptitude)	11	11
M(Manual Dexterity)	23	22

HOURLY WAGE RATE

\$3.00 - \$3.20

LENGTH OF APPRENTICESHIP - Four years

CONTACT SOURCES - For additional information

Name	Address	City
Ayer, F. M.	Keokuk Public Service Co.	Keokuk, Iowa
Bloom, J. R.	1628 W. 4th Street	Davenport, Iowa
Kohl, M. B.	Clinton Corn Processing	Clinton, Iowa

L A T H E R S

USUAL DUTIES

The apprentice lather will work under close supervision of a journeyman lather for the purpose of: Installing the supporting backings on ceilings or walls on which plaster or other materials are applied. These supports are usually metal or large pieces of perforated or unperforated gypsum lath.

QUALIFICATIONS

Age: 16 1/2 - 25 1/2

Education: Possess a high school diploma or have met the requirements for a high school equivalency certificate and receive a satisfactory rating by the Joint Apprenticeship Committee. Applicants must have manual and finger dexterity as well as other qualifications required. Apprentices generally must pass examinations that are given at the end of each six month period.

OCCUPATIONAL APTITUDE PATTERN (OAP)

<u>OAP</u>	<u>Cutting Percentile Score</u>	
	<u>ADULT</u>	<u>YOUTH</u>
G (Intelligence)	11	11
F (Finger Dexterity)	11	11
M (Manual Dexterity)	16	16

HOURLY WAGE RATE

\$4.50 - \$4.70

LENGTH OF APPRENTICESHIP

Two years

CONTACT SOURCES - For additional information

<u>Name</u>	<u>Address</u>	<u>City</u>
Farrell, Robert E.	11118 Mulberry	Des Moines, Iowa

M A C H I N I S T S (F O U N D R Y)

USUAL DUTIES

The apprentice foundry machinist learns to: (1) make castings of iron and steel; (2) produce gray and ductile iron castings in ferrous foundries. Those apprentices who work in a non-ferrous foundry learn to make brass, bronze, aluminum, magnesium and zinc castings.

QUALIFICATIONS

Education: Possess a high school diploma or have met the requirements for a high school equivalency certificate and receive a satisfactory rating by the Joint Apprenticeship Committee. The applicant should be mechanically inclined and temperamentally suited to do highly accurate work that requires both concentration and physical effort. Courses in mathematics and physics and some knowledge of electronics and hydraulics may be helpful both during and after apprenticeship training.

OCCUPATIONAL APTITUDE PATTERN (OAP)

<u>OAP</u>	<u>Cutting Percentile Score</u>	
	<u>ADULT</u>	<u>YOUTH</u>
G (Intelligence)	50	
S (Spatial Aptitude)	50	
M (Manual Dexterity)	31	

HOURLY WAGE RATE

\$ 3.25 - \$ 3.45

LENGTH OF APPRENTICESHIP

Four years

CONTACT SOURCES - For additional information

<u>Name</u>	<u>Address</u>	<u>City</u>
Bunn, George W.	John Deere Waterloo Tractor Works	Waterloo, Iowa

M E C H A N I C A L A N D S T R U C T U R A L
D R A F T S M E N

USUAL DUTIES

The apprentice mechanical and structural draftsman will work under close supervision of a journeyman mechanical and structural draftsman for the purpose of: (1) making detailed plans, giving exact dimensions and specifications for objects such as space capsule, electric iron, television sets, radios, etc; (2) translating the ideas, rough sketches, specifications and calculations of engineers, architects and designers into working plans which are used by skilled craftsmen in making a product; (3) calculating the strength, reliability and cost of materials; (4) describing in their drawings and specifications exactly what materials and processes workers are to use on a particular job.

QUALIFICATIONS

Education: Possess a high school diploma or have met the requirements for a high school equivalency certificate and receive a satisfactory rating by the Joint Apprenticeship Committee. The applicant should have had courses in mathematics and physical science, as well as mechanical drawing and drafting. Those with only high school drafting start out as tracers; those with post-high school technical training can often qualify as junior draftsmen. A draftsman must have the ability to visualize objects in three dimensions and do freehand drawing.

HOURLY WAGE RATE

\$3.25 - \$3.50

LENGTH OF APPRENTICESHIP - Three to four years

CONTACT SOURCES - For additional information

<u>Name</u>	<u>Address</u>	<u>City</u>
Hartl, L. J.	Stanley Building	Muscatine, Iowa
Mekemson, G. E.	301 Avenue "H"	Fort Madison, Iowa
Miller, Roy	525 East 18th Street	Cedar Falls, Iowa

M E T A L L U R G I S T
I N I R O N A N D S T E E L I N D U S T R Y

USUAL DUTIES

The apprentice metallurgist will work under close supervision of a journeyman metallurgist for the purpose of: (1) designing constructing and operating of mill machinery and material handling equipment; (2) working in operating units where their jobs include determining of roll size and cutout, rolling pressures and operating speeds; (3) testing and controlling the quality of the steel during its manufacture; (4) developing and improving the industry's products and processes through research.

QUALIFICATIONS

Age: 18

Education: Possess a high school diploma or have met the requirements for a high school equivalency certificate and receive a satisfactory rating by the Joint Apprenticeship Committee.

HOURLY WAGE RATE

\$3.40 - \$3.60

CONTACT SOURCES - For additional information

<u>Name</u>	<u>Address</u>	<u>City</u>
Farrell, Robert	1118 Mulberry	Des Moines, Iowa
Miller, Duane L.	1002 Commercial St.	Waterloo, Iowa
Peterson, Clarence	4131 Adams St.	Sioux City, Iowa
Personnel Director	Eagle Iron Works 129 E. Holcomb	Des Moines, Iowa
Reed, William	1501 E. Aurora	Des Moines, Iowa

M I L L W R I G H T S

USUAL DUTIES

The apprentice millwright will work under close supervision of a journeyman millwright for the purpose of: (1) moving and installing heavy industrial machinery and other equipment; (2) taking apart and re-assembling equipment in order to move and/or install it; (3) repairing and maintaining industrial machinery and other equipment, such as conveyors, cranes, hoists, scaffolds, pumps and blowers, in addition to moving and installing equipment.

QUALIFICATIONS

Age: 18 - 26

Education: Possess a high school diploma or have met the requirements for a high school equivalency certificate and receive a satisfactory rating by the Joint Apprenticeship Committee. High school courses in science, mathematics, mechanical drawing, and machine shop practice are useful and mechanical aptitude is important, along with strength and agility.

OCCUPATIONAL APTITUDE PATTERN (OAP)

<u>OAP</u>	<u>Cutting Percentile Score</u>	
	<u>ADULT</u>	<u>YOUTH</u>
G(Intelligence)	16	16
N(Numerical Ability)	11	12
M(Manual Dexterity)	23	22

HOURLY WAGE RATE

\$3.00 - \$3.20

LENGTH OF APPRENTICESHIP - Four years

CONTACT SOURCES - For additional information

<u>Name</u>	<u>Address</u>	<u>City</u>
Boland, C. M.	112 Wilson Ave. SW	Cedar Rapids, Iowa
Kuhl, M. B.	Clinton Corn Processing Company	Clinton, Iowa
Rickabaugh, Paul E.	P. O. Box 750	Davenport, Iowa
Runneals, Larry G.	200 South 12th Ave.	Marshalltown, Iowa
Wendland, Leo	520 - 24th St.	Rock Island, Illinois

M O D E L O R I N S T R U M E N T M A K E R

USUAL DUTIES

The apprentice model or instrument maker will work under close supervision of a journeyman model or instrument maker for the purpose of: (1) working closely with engineers and scientists in translating designs and ideas into experimental models, special laboratory equipment and custom instruments; (2) modifying existing instruments for special purposes; (3) constructing experimental devices for regulating heat, measuring distances, recording earthquakes, and controlling industrial processes; (4) specializing in installing electric and electronic instrument components; (5) lubricating metal parts by operating machine tools such as lathes and milling machines by using chisels.

QUALIFICATIONS

Education: Possess a high school diploma or have met the requirements for a high school equivalency certificate and receive a satisfactory rating by the Joint Apprenticeship Committee. The applicant should have further technical schooling in electricity and electronics, courses in algebra, geometry, trigonometry, science and machine shop work; have a strong interest in mechanical subjects, initiative and resourcefulness, ability to develop original solutions, and considerable pride in creative work.

OCCUPATIONAL APTITUDE PATTERN (OAP)

OAP	<u>Cutting Percentile Score</u>	
	<u>ADULT</u>	<u>YOUTH</u>
G(Intelligence)	69	
S(Spatial Aptitude)	50	
P(Form Perception)	50	

HOURLY WAGE RATE

\$3.40 - \$3.60

LENGTH OF APPRENTICESHIP - Four or Five years

CONTACT SOURCES - For additional information

<u>Name</u>	<u>Address</u>	<u>City</u>
Doris, S. R.	2734 Hickory Grove Rd.	Davenport, Iowa
Kuhl, M. B.	Clinton Corn Processing Company	Clinton, Iowa

M O L D E R

USUAL DUTIES

The apprentice molder will work under close supervision of a journeyman molder for the purpose of: (1) preparing molds made of specially prepared sand, which contains a hollow space in the shape of the item to be made; (2) making the mold by packing and ramming prepared sand around a pattern-a model of the object to be duplicated-in a molding box called a flash; (3) pouring molten metal into the cavity, which when solidified, forms the casting.

QUALIFICATIONS

Education: An eighth grade education usually is the minimum requirement for apprenticeship. Physical standards are fairly high; good vision is necessary and a high degree of manual dexterity is needed.

OCCUPATIONAL APTITUDE PATTERN (OAP)

<u>OAP</u>	<u>Cutting Percentile Score</u>	
	<u>ADULT</u>	<u>YOUTH</u>
G (Intelligence)	50	
S (Spatial Aptitude)	50	
F (Finger Dexterity)	31	

HOURLY WAGE RATE

\$2.70 - \$2.90

LENGTH OF APPRENTICESHIP

Four Years

CONTACT SOURCES - For additional information

<u>Name</u>	<u>Address</u>	<u>City</u>
Bloom, J. R.	1628 West Fourth St.	Davenport, Iowa

O P T I C I A N S

USUAL DUTIES

The apprentice optician will work under close supervision of a journeyman optician for the purpose of: (1) making and fitting eyeglasses; (2) grinding and polishing the lenses to meet the specifications of the prescription and assembling in frames; (3) fitting and adjusting glasses to the customer's requirements; (4) fitting contact lenses.

QUALIFICATIONS

Education: Possess a high school diploma or have met the requirements for a high school equivalency certificate and receive a satisfactory rating by the Joint Apprenticeship Committee. Applicant should have a knowledge of physics, algebra, geometry and mechanical drawing.

HOURLY WAGE RATE

\$2.25 - \$4.00

LENGTH OF APPRENTICESHIP - Four to Five years

CONTACT SOURCES - For additional information

<u>Name</u>	<u>Address</u>	<u>City</u>
Hunter, John	322 Third Ave., S.E.	Cedar Rapids, Iowa

P A I N T E R S A N D P A P E R H A N G E R S

USUAL DUTIES

The apprentice painter will work under close supervision of a journeyman painter for preparing the surfaces of buildings and other structures and then applying the necessary finish of either paint, varnish, enamel or lacquer.

The apprentice paperhanger will work under supervision in covering room interiors with paper, fabric, vinyls or other materials.

QUALIFICATIONS

Age: 16 - 25

Education: A high school education is not essential but an applicant must have met the requirements for a high school equivalency certificate and receive a satisfactory rating by the Joint Apprenticeship Committee. Applicant should have manual dexterity and a discerning color sense and should not be allergic to paint fumes or to the other materials used in these trades - such as varnish, turpentine and lacquer.

OCCUPATIONAL APTITUDE PATTERN (OAP)

<u>OAP</u>	<u>Cutting Percentile Score</u>	
	<u>ADULT</u>	<u>YOUTH</u>
G (Intelligence)	50	47
V (Verbal Ability)	50	49
S (Spatial Aptitude)	31	30

HOURLY WAGE RATE

\$ 4.10 - \$ 4.30

LENGTH OF APPRENTICESHIP

Three years

CONTACT SOURCES - For Additional information

<u>Name</u>	<u>Address</u>	<u>City</u>
Blankenship, Chick	917-19th Street	Sioux City, Iowa
Clifford, Lyle	5110 "J" Street SW	Cedar Rapids, Iowa
Hayden, Floyd	6404 School Street	Des Moines, Iowa
Newton, Clifford J.	2837 E. 4th Street	Waterloo, Iowa

P A T T E R N M A K E R I N F O U N D R Y

USUAL DUTIES

The apprentice pattern maker will work under close supervision of a journeyman foundry pattern maker for the purpose of: building patterns used in making molds in which foundry castings are formed. He will also work from blueprints prepared by the engineering department.

QUALIFICATIONS

Education: Possess a high school diploma or have met the requirements for a high school equivalency certificate and receive a satisfactory rating by the Joint Apprenticeship Committee. The applicant must have a high degree of manual dexterity, the ability to visualize objects in three dimensions, and good trade school courses in patternmaking provide useful preparation for the prospective apprentice.

HOURLY WAGE RATE

\$3.25 - \$4.00

LENGTH OF APPRENTICESHIP

Five years

CONTACT SOURCES - For additional information

<u>Name</u>	<u>Address</u>	<u>City</u>
Bunn, George W.	John Deere Tractor Works	Waterloo, Iowa
Kuhl, M. B.	Clinton Corn Pro- cessing Co.	Clinton, Iowa
Shrewsberry, George S.	32nd & Jackson	Keokuk, Iowa

P L A S T E R E R S

USUAL DUTIES

The apprentice plasterer will work under close supervision of a journeyman plasterer for the purpose of: (1) applying plaster to interior walls and ceilings to form fire-resistant and relatively soundproof surfaces, which then may be decorated; (2) applying stucco to exterior walls and form and cast ornamental designs in plaster.

QUALIFICATIONS

Age: 18-25

Education: Possess a high school diploma or have met the requirements for a high school equivalency certificate and receive a satisfactory rating by the Joint Apprenticeship Committee.

HOURLY WAGE RATE

\$4.60 - \$4.80

LENGTH OF APPRENTICESHIP

Three to four years

CONTACT SOURCES - For additional information

<u>Name</u>	<u>Address</u>	<u>City</u>
Netcott, Ralph	108 High Street	Ames, Iowa
Wells, Thomas H.	RFD #6	Ottumwa, Iowa

PLUMBERS AND PIPEFITTERS

USUAL DUTIES

The apprentice plumber and pipefitter will work under close supervision of a journeyman plumber and pipefitter for the purpose of: (1) installing pipe systems that carry water, steam, air and other liquids or gases needed for sanitation, industrial production, or other uses; (2) altering and repairing existing pipe systems and installing plumbing fixtures, appliances and heating and refrigerated units.

QUALIFICATIONS

Age: 16 - 25

Education: Possess a high school diploma or have met the requirements for a high school equivalency certificate and receive a satisfactory rating by the Joint Apprenticeship Committee. Applicants should have had courses in mathematics, physics and chemistry; they are often required to take aptitude tests to determine whether they have the high degree of mechanical aptitude required in this field.

OCCUPATIONAL APTITUDE PATTERN (OAP)

<u>OAP</u>	<u>Cutting Percentile Score</u>	
	<u>ADULT</u>	<u>YOUTH</u>
G (Intelligence)	23	
N (Numerical Ability)	16	
M (Manual Dexterity)	31	

HOURLY WAGE RATE

\$4.70 - \$4.90; \$4.60 - \$4.80

LENGTH OF APPRENTICESHIP

Five years

CONTACT SOURCES - For additional information

<u>Name</u>	<u>Address</u>	<u>City</u>
Budeslich, Joseph	116 North Green St.	Ottumwa, Iowa
Dahl, Robert H.	302 Washington St.	Burlington, Iowa
Davis, James	215 E. 22nd Street	Dubuque, Iowa
Dochterman, Roger	1839-16th Ave. SW	Cedar Rapids, Iowa
Fisher, Patrick J.	1120 South Avenue	Fort Dodge, Iowa

Contact Sources (Continued)

<u>Name</u>	<u>Address</u>	<u>City</u>
Furnace, William		Letts, Iowa
Lowndes, Robert	1211-23rd Street	Sioux City, Iowa
Murphy, William	Local #384, 243 Duryea Street	Waterloo, Iowa
Reufer, Eugene	609½ W. 4th St.	Davenport, Iowa
Seymour, Wilton	124 Washington	Des Moines, Iowa

P R I N T I N G (P R E S S M E N A N D A S S I S T A N T S)

USUAL DUTIES

The apprentice printer (pressman and assistant) will work under close supervision of a journeyman printer for the purpose of: (1) printing or setting type by hand and machine, and assembling it with illustrations in page form in preparation for printing newspapers, advertising materials and books; (2) specializing in setting type by hand (hand compositor) or by machine (type-setting machine operator). The apprentice may also receive instruction in preparing and operating lithographic printing presses.

QUALIFICATIONS

Education: Possess a high school diploma or have met the requirements for a high school equivalency certificate and receive a satisfactory rating by the Joint Apprenticeship Committee. Companies generally choose apprentices from among press assistants and others already employed in a plant. The applicant must have mechanical aptitude and preparation in chemistry and physics with at least one year of each.

OCCUPATIONAL APTITUDE PATTERN (OAP)

<u>OAP</u>	<u>Cutting Percentile Score</u>	
	<u>ADULT</u>	<u>YOUTH</u>
G (Intelligence)	40	
V (Verbal Aptitude)	31	
Q (Clerical Perception)	50	

HOURLY WAGE RATE

\$4.20 - \$4.40

LENGTH OF APPRENTICESHIP

Commercial Shops-two years for press assistants, four years for pressmen; five years for newspaper establishments.

CONTACT SOURCES - For additional information

<u>Name</u>	<u>Address</u>	<u>City</u>
Billmyer, William S.	2705 Second Avenue	Rock Island, Illinois
Holub, Robert	#2 Waverly Drive	Rock Island, Illinois

P U M P M A I N T E N A N C E M E C H A N I C I N
P E T R O L E U M R E F I N I N G I N D U S T R Y

USUAL DUTIES

The apprentice pump maintenance mechanic in petroleum refining industry will work under close supervision of a journeyman pump maintenance mechanic for the purpose of maintaining and operating power-driven pumps which circulate petroleum products, chemicals and water through units during processing.

QUALIFICATIONS

Education: Possess a high school diploma or have met the requirements for a high school equivalency certificate and receive a satisfactory rating by the Joint Apprenticeship Committee.

HOURLY WAGE RATE

\$ 3.55 - \$ 3.75

CONTACT SOURCES - For additional information

<u>Name</u>	<u>Address</u>	<u>City</u>
Kuhl, M. B.	Clinton Corn Processing Company	Clinton, Iowa

REFRIGERATOR AND AIR - CONDITIONING
FITTER

USUAL DUTIES

The apprentice refrigerator and air-conditioning fitter will work under close supervision of a journeyman refrigerator and air-conditioning fitter for the purpose of: installing, maintaining, disassembling, cleaning, overhauling, assembling and connecting parts of refrigeration or air conditioning systems.

QUALIFICATIONS

Education: Possess a high school diploma or have met the requirements for a high school equivalency certificate and receive a satisfactory rating by the Joint Apprenticeship Committee. The applicant should be in good physical condition, have mechanical aptitude and interest in electricity and the ability to handle mathematics, physics, electricity and mechanical drawing.

OCCUPATIONAL APTITUDE PATTERN (OAP)

<u>OAP</u>	<u>Cutting Percentile Score</u>	
	<u>ADULT</u>	<u>YOUTH</u>
G (Intelligence)	93	
N (Numerical Ability)	84	
S (Spatial Aptitude)	84	

HOURLY WAGE RATE

\$3.00 - \$4.50

CONTACT SOURCES - For additional information

<u>Name</u>	<u>Address</u>	<u>City</u>
Dochterman, Roger	1839 - 16th Avenue SW	Cedar Rapids, Iowa

R O O F E R

USUAL DUTIES

The apprentice roofer will work under close supervision of a journeyman roofer for the purpose of: (1) applying composition roofing and other materials, such as tile and slate, to the roofs of buildings; (2) waterproofing and damp-proofing walls and other building surfaces.

QUALIFICATIONS

Age: 18

Education: Possess a high school diploma or have met the requirements for a high school equivalency certificate and receive a satisfactory rating by the Joint Apprenticeship Committee. The applicant should be in good physical condition and have a good sense of balance.

OCCUPATIONAL APTITUDE PATTERN (OAP)

<u>OAP</u>	<u>Cutting Percentile Score</u>	
	<u>ADULT</u>	<u>YOUTH</u>
G (Intelligence)	40	
N (Numerical Aptitude)	50	
M (Manual Dexterity)	11	

HOURLY WAGE RATE

\$ 4.15 - \$ 4.35

LENGTH OF APPRENTICESHIP

Three years

CONTACT SOURCES - For additional information

<u>Name</u>	<u>Address</u>	<u>City</u>
Koder, Robert L.	1922 Delaware	Des Moines, Iowa
Riley, James	P. O. Box 521	Burlington, Iowa

S H E E T - M E T A L W O R K E R S O R T I N S M I T H S

USUAL DUTIES

The apprentice sheet-metal workers or tinsmith will work under close supervision of a journeyman sheet-metal worker or journeyman tinsmith for the purpose of: (1) loading, unloading and cleaning metal; (2) cutting metal to size and shaping it for installation; (3) operating brake, shearing rollers, and other machines; (4) soldering and spot welding.

QUALIFICATIONS

Age: 16 - 23

Education: Possess a high school diploma or have met the requirements for a high school equivalency certificate and receive a satisfactory rating by the Joint Apprenticeship Committee. Applicant should be in good physical condition and have mechanical aptitude.

OCCUPATIONAL APTITUDE PATTERN (OAP)

<u>OAP</u>	<u>Cutting Percentile Score</u>	
	<u>ADULT</u>	<u>YOUTH</u>
G(Intelligence)	40	
S(Spatial Aptitude)	31	
P(Form Perception)	23	

HOURLY WAGE RATE

\$4.50 - \$4.70

LENGTH OF APPRENTICESHIP - Four years

CONTACT SOURCES - For additional information

<u>Name</u>	<u>Address</u>	<u>City</u>
Brockway, Martin	1104 Gnahn Street	Burlington, Iowa
Hermann, William	124 Washington	Des Moines, Iowa
Hess, Richard	2311 N. Second St.	Clinton, Iowa
Jorgensen, Phil P.	3261 Court Street	Sioux City, Iowa
Pauley, John E.	Box 519	Mason City, Iowa
Ryan, James	2850 Indiana	Dubuque, Iowa
Weddell, Robert S.	P. O. Box 46	DeWar, Iowa

S T E R E O T Y P E R S A N D E L E C T R O T Y P E R S

USUAL DUTIES

The apprentice stereotyper and electrotyper will work under close supervision of a journeyman stereotyper and electrotyper for the purpose of: (1) making duplicate press plates of metal, rubber, and plastic for letter press printing; (2) making of plates from the metal type forms prepared in the composing room. Electrotyping and stereotyping are necessary because most volume printing requires the use of duplicate printing plates.

QUALIFICATIONS

Age: 18

Education: Possess a high school diploma or have met the requirements for a high school equivalency certificate and receive a satisfactory rating by the Joint Apprenticeship Committee. Physical examinations and aptitude tests are given and high school courses should include mechanical training and chemistry.

OCCUPATIONAL APTITUDE PATTERN (OAP)

<u>OAP</u>	<u>Cutting Percentile Score</u>	
	<u>ADULT</u>	<u>YOUTH</u>
G(Intelligence)	50	
S(Spatial Aptitude)	31	
F(Finger Dexterity)	16	

HOURLY WAGE RATE

\$4.10 - \$4.30

LENGTH OF APPRENTICESHIP - Three to four years

CONTACT SOURCES - For additional information

<u>Name</u>	<u>Address</u>	<u>City</u>
Bickel, Hilary G.	814 Carroll St.	Keokuk, Iowa
Bishop, John	800 S. Main St.	Burlington, Iowa

T. V. AND RADIO REPAIRMEN

USUAL DUTIES

The apprentice T. V. and radio repairman will work under close supervision of a journeyman T. V. and radio repairman for the purpose of: (1) testing tubes; (2) installing antennas and equipment, adjusting and repairing parts of radios, television receivers, public address systems and other electronic devices.

QUALIFICATIONS

Education: Possess a high school diploma or have met the requirements for a high school equivalency certificate and receive satisfactory rating by the Joint Apprenticeship Committee. A good background in mathematics and physics is needed. The applicant must have the ability to manipulate small parts and tools, have good hand-eye coordination, good hearing and eyesight and color vision.

OCCUPATIONAL APTITUDE PATTERN (OAP)

OAP	Cutting Percentile Score	
	<u>ADULT</u>	<u>YOUTH</u>
N(Numerical Ability)	31	
S(Spatial Aptitude)	50	
F(Finger Dexterity)	23	

HOURLY WAGE RATE

\$1.50 - \$2.13

LENGTH OF APPRENTICESHIP - One year

CONTACT SOURCES - For additional information

<u>Name</u>	<u>Address</u>	<u>City</u>
Vilimek, Ed	2409 University	Des Moines, Iowa

TILE SETTER, TERRAZZO WORKER AND
MARBLE SETTER

USUAL DUTIES

The apprentice tile setter learns to attach tile on walls, floors or ceilings, according to blueprints or other instructions. He will also, under supervision, learn to lay tile floors by first pouring the concrete subfloor.

The apprentice terrazzo worker learns to lay a mixture of base epox or latex and use an electric-powered grinding machine for polishing the surface

QUALIFICATIONS

Age: 17 - 22

Education: Possess a high school diploma or have met the requirements for a high school equivalency certificate and receive a satisfactory rating by the Joint Apprenticeship Committee. Good physical condition and manual dexterity are important assets and the applicant should have an eye for quickly determining proper alinements of tile, terrazzo and marble, and have a good sense of color harmony.

OCCUPATIONAL APTITUDE PATTERN (OAP)

<u>OAP</u>	<u>Cutting Percentile Score</u>	
	<u>ADULT</u>	<u>YOUTH</u>
G (Intelligence)	40	
N (Numerical Ability)	50	
M (Manual Dexterity)	11	

HOURLY WATE RATE

\$ 4.45 - \$ 4.65

LENGTH OF APPRENTICESHIP

Three years

CONTACT SOURCES - For additional information

<u>Name</u>	<u>Address</u>	<u>City</u>
<u>TILE SETTERS</u>		
Baker, Gerald E.	2906 "C" Ave. NE	Cedar Rapids, Iowa

CONTACT SOURCES (Tile setters) Continued

<u>Name</u>	<u>Address</u>	<u>City</u>
Bane, Orran H. Jr.	472 Loma Street	Waterloo, Iowa
Montgomery, Harlan H.	434 Commerce Building	Sioux City, Iowa

MARBLE SETTERS

Boucher, Lester	2430 7th Street	Sioux City, Iowa
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TERRAZZO WORKERS

Montgomery, Harlan H.	434 Commerce Bldg.	Sioux City, Iowa
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T O O L A N D D I E M A K E R S

USUAL DUTIES

The apprentice tool and die maker will work under close supervision of a journeyman tool and die maker for the purpose of: (1) specializing in jigs and gauges and other measuring devices that are used in manufacturing precision metal parts; (2) constructing metal die forms which are used in stamping and forging operations to shape metal; (3) making metal molds used in die-casting and molding plastics; (4) repairing dies, gauges and jigs.

QUALIFICATIONS

Education: Possess a high school diploma or have met the requirements for a high school equivalency certificate and receive a satisfactory rating by the Joint Apprenticeship Committee. A test may be administered to determine the applicants mechanical aptitude and ability in mathematics. Other qualities for the job are: (1) a good working knowledge of mathematics and physics; (2) considerable mechanical ability and finger dexterity; (3) a liking for painstaking work.

OCCUPATIONAL APTITUDE PATTERN (OAP)

<u>OAP</u>	<u>Cutting Percentile Score</u>	
	<u>ADULT</u>	<u>YOUTH</u>
G (Intelligence)	40	
S (Spatial Aptitude)	61	
P (Form Perception)	31	

HOURLY WAGE RATE

\$ 4.60 - \$ 4.90

LENGTH OF APPRENTICESHIP

Four or Five years

CONTACT SOURCES - For additional information

<u>Name</u>	<u>Address</u>	<u>City</u>
Bunn, George W.	John Deere Waterloo Tractor Works	Waterloo, Iowa
Crowe, Robert C.	P. O. Box 561	Burlington, Iowa

CONTACT SOURCES (continued)

<u>Name</u>	<u>Address</u>	<u>City</u>
Docken, F. L.	Maytag Company	Newton, Iowa
Doris, S. R.	2734 Hickory Grove Rd.	Davenport, Iowa
Ehlers, Verne	2611 State Street	Bettendorf, Iowa
Etten, Robert D.	338 Rock Island	Waterloo, Iowa
Fahy, Robert F.	M. A. Ford Manufacturing 1545 Rockingham Road	Davenport, Iowa
Garlick, Max H.	Square "D" Company	Cedar Rapids, Iowa
Gilbertson, Knute A.	300 Airport Road	Ames, Iowa
Herrick, Keith W.	P. O. Box 311	Muscatine, Iowa
Lading, David	Deluxe Products, Division of Walker Manufacturing	Lake Mills, Iowa
Mekemson, G. E.	301 Avenue "H"	Fort Madison, Iowa
Miller, Roy	525 E. 18th Street	Cedar Falls, Iowa
Parks, Carl B.	P. O. Box 612	Dubuque, Iowa
Richards, Robert F.	P. O. Box 690	Davenport, Iowa
Schlitz, W. J.	736 Federal	Davenport, Iowa
Shrewsberry, George S.	32nd and Jackson	Keokuk, Iowa
Stellman, Steward	1105 Maple	West Des Moines, Iowa
Storlie, Lee	Deco Products Company	Decorah, Iowa
Swisher, C. F.	35th & Elm Streets	Bettendorf, Iowa
Uchtorff, Alfred E.	1833 West Street	Davenport, Iowa
VanDellen, Lubbert H.	111 Main Street	Pella, Iowa
Warywods, Fred	101 7th Street	West Des Moines, Iowa
Williams, Robert	3811 McDonald	Des Moines, Iowa

T R U C K A N D B U S M E C H A N I C S

USUAL DUTIES

The apprentice bus and truck mechanic will work under close supervision of a journeyman truck and bus mechanic for the purpose of: (1) keeping trucks and buses in good running condition; (2) keeping large inter-city, medium and small trucks used in local hauling in good running condition; (3) repairing heavy trucks used on construction and mining sites. The bus mechanics maintaining a variety of buses, ranging from small ones used in local transit to large trans-continental buses. In trucks and buses the engines are large transmissions and differentials complex, having air-brakes which are different than in automobiles.

QUALIFICATIONS

Age: 18

Education: Possess a high school diploma or have met the requirements for a high school equivalency certificate and receive a satisfactory rating by the Joint Apprenticeship Committee. Where duties include the driving of trucks, applicants shall be 21 years of age and be able to obtain a state chauffeur's license. Practical experience in automobile repair, science, and mathematics are helpful.

OCCUPATIONAL APTITUDE PATTERN (OAP)

<u>OAP</u>	<u>Cutting Percentile Score</u>	
	<u>ADULT</u>	<u>YOUTH</u>
G(Intelligence)	40	38
S(Spatial Aptitude)	23	22
F(Finger Dexterity)	11	10

HOURLY WAGE RATE

\$2.70 - \$2.90

LENGTH OF APPRENTICESHIP - Six months to one year

CONTACT SOURCES - For additional information

<u>Name</u>	<u>Address</u>	<u>City</u>
Harlan, E. W.	c/o Bruce Motor Freight 1914 E. Euclid	Des Moines, Iowa

TYPOGRAPHICAL COMPOSITOR

USUAL DUTIES

The apprentice typographical compositor will work under close supervision of a journeyman typographical compositor for the purpose of: (1) setting of type requiring very fine composition, for advertising copy and small jobs where it would be impractical to set the type by machine; (2) The hand compositor reads from the manuscript copy and first sets each line of type in a "composing stock", letter by letter and line by line. He also slides the completed lines of the full stock onto a shallow metal tray called a "gallery".

QUALIFICATIONS

Education: Possess a high school diploma or have met the requirements for a high school equivalency certificate and receive a satisfactory rating by the Joint Apprenticeship Committee. Qualifications which are important are: English - especially spelling and Mathematics, printing and typing courses in vocational or high school; interest in electronics and photography; artistic ability in layouts.

OCCUPATIONAL APTITUDE PATTERN (OAP)

<u>OAP</u>	<u>Cutting Percentile Score</u>	
	<u>ADULT</u>	<u>YOUTH</u>
G(Intelligence)	40	
V(Verbal Aptitude)	31	
Q(Clerical Perception)	50	

HOURLY WAGE RATE

\$3.75 - \$3.95

LENGTH OF APPRENTICESHIP - Six years of progressively advanced training, supplemented by classroom instruction or correspondence courses.

CONTACT SOURCES - For additional information

<u>Name</u>	<u>Address</u>	<u>City</u>
Billmyer, William S.	1705 Second Avenue	Rock Island, Illinois

DATE

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