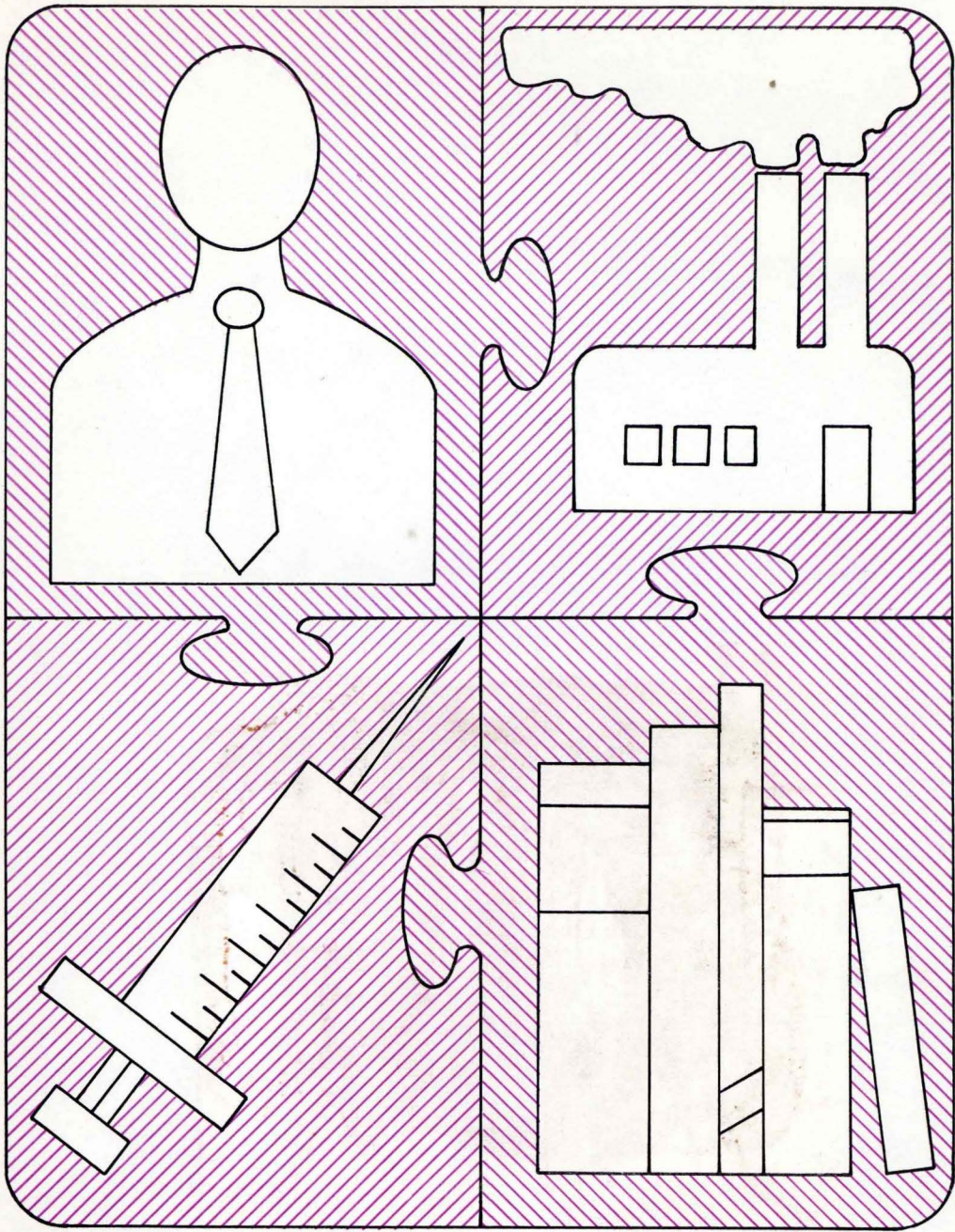


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Make A Match

A Guide To Career Selection

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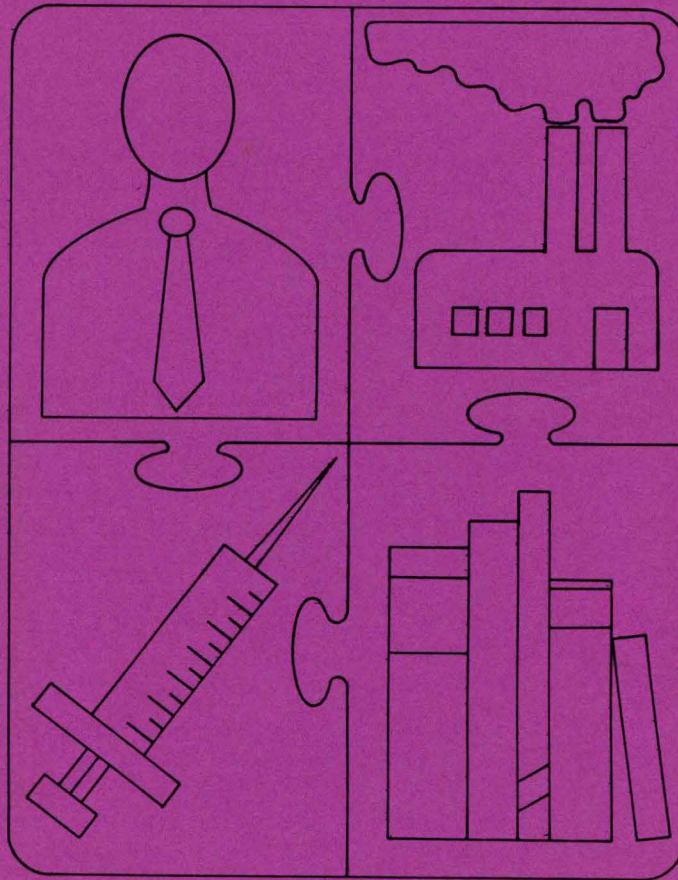
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Iowa Employment Security Commission
1000 East Grand Avenue
Des Moines, Iowa 50319

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Make A Match



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preface

A major objective of the Job Service of Iowa is to properly match workers with jobs they are eligible to handle. Since workers vary, a number of different job service techniques are used.

Counseling and testing of unskilled workers usually will predict the kinds of jobs in which they will perform best. The same is true with young and inexperienced workers. Training can then be provided through manpower programs to prepare them for employment.

Job Bank furnishes the job service with a computerized system of current job listings. Existing jobs are tabulated daily on the local, state and even national levels, giving workers quick, efficient job service.

For job-ready workers, the Job Information Service (JIS) offers a self-service method of job hunting. The unit provides an updated listing of available job openings that experienced workers can check on their own, selecting jobs that interest them.

Numerous publications on employment and related subjects are available for workers to assist them in their job search activities. Among these is a series of booklets on careers in Iowa, including food services, building trades, clerical, licensed occupations and others. These and other printed materials are free.

A dedicated, professional job service staff is ready to aid you in any way possible. Please feel free to make use of these services.

Make a Match*

Choosing the right career is important for three reasons: personal satisfaction, life direction and financial security.

Today's broad range of occupations—there are more than 20,000—and the education and training opportunities available make career selecting far from easy. The problem becomes one of matching personal skills, interests and goals with the requirements demanded by a given field of work. Afterward, a practical course can be plotted to prepare for job readiness in that field.

The following chart lists 25 occupational characteristics and requirements in relation to 282 occupations chosen from the 1974-75 *Occupational Outlook Handbook*. The chart is designed as an exploratory tool in matching personal traits—interests, capacities, abilities, tastes, preferences and educational qualifications—with those usually associated with an occupation or group of occupations.

Job characteristics presented in the chart refer to typical jobs found in each category. Since jobs within an occupational group differ, characteristics also differ. Therefore an occupation should not be disregarded because of one undesirable characteristic—unless that one is common to all jobs in that group.

*Adapted from "Toward Matching Personal and Job Characteristics," in *Occupational Outlook Quarterly*, Spring 1975.

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Common Job Characteristics and Requirements

1. High school degree—high school diploma generally required.
2. Technical school or apprenticeship—some form of non-degree posthigh school training required.
3. Junior college—requires Associate in Arts degree.
4. College degree—requires at least a bachelor's degree. ("C" = BA degree; "G" = graduate work or first professional degree.)
5. Jobs widely scattered—jobs are located in most areas of the United States.
6. Jobs concentrated in localities—jobs are highly concentrated in one or a few geographical locations.
7. Works with things—job generally requires manual skills.
8. Works with ideas—uses one's intellect to solve problems.
9. Helps people—assists people in a helping relationship.
10. Works with people—job generally requires pleasing personality and ability to get along with others.
11. Able to see physical results of work—work produces a tangible product.
12. Opportunity for self-expression—freedom to use one's own ideas.
13. Works as part of a team—interacts with fellow employees in performing work.
14. Works independently—requires initiative, self-discipline, and the ability to organize.
15. Work is closely supervised—job performance and work standards controlled by supervisor.
16. Directs activities of others—work entails supervisory responsibilities.
17. Generally confined to work area—physically located at one work setting.
18. Overtime or shift work required—works hours other than normal daytime shifts.
19. Exposed to weather conditions—works outside or is subjected to temperature extremes.
20. High level of responsibility—requires making key decisions involving property, finances, or human safety and welfare.
21. Requires physical stamina—must be in physical condition for continued lifting, standing, and walking.
22. Works with details—works with technical data, numbers, or written materials on a continuous basis.
23. Repetitious work—performs the same task on a continuing basis.
24. Motivates others—must be able to influence others.
25. Competitive—competes with other people on the job for recognition and advancement.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25		
	High school diploma	Technical diploma	Junior college	College degree	Jobs widely scattered	Jobs concentrated in localities	Working with things	Helping with ideas	Working with people	Able to see physical	Opportunity for self-expression	Works as part of a team	Work is independently	Directs activities	Generally supervised	Overtime or confined to others	High level of shift work area	Requires weather work area	Requires physical stamina	Repetitious detail	Motivates others	Competitive					
INDUSTRIAL PRODUCTION AND RELATED OCCUPATIONS																											
Foundry occupations																											
Patternmakers	X	X		X	X					X	X	X	X									X					
Molders		X		X	X					X	X	X	X									X					
Coremakers		X		X	X					X	X	X	X									X					
Machining occupations																											
All-round machinists		X		X	X					X	X	X	X								X	X	X				
Instrument makers (mechanical)	X	X			X	X				X	X	X										X					
Machine tool operators		X		X	X					X	X	X	X								X	X	X				
Set-up workers (machine tools)	X	X			X	X				X	X	X	X								X	X					
Tool-and-die makers		X			X	X				X	X	X	X	X	X	X					X	X					
Printing occupations																											
Bookbinders	X	X		X	X					X	X	X	X										X				
Composing room workers	X	X			X	X					X	X	X	X	X							X	X				
Electrotypers and stereotypers	X	X			X	X				X	X	X	X	X	X							X	X				
Lithographic workers	X	X			X	X					X	X	X	X	X							X	X				
Photoengravers	X	X			X	X				X	X		X	X								X	X				
Printing press operators and assistants	X	X			X	X					X			X							X						
Other industrial and related occupations																											
Assemblers					X	X					X	X	X										X				
Automobile painters		X		X	X					X	X	X	X										X				
Automobile trimmers and installers				X	X					X	X	X	X										X				
Blacksmiths		X		X	X					X	X	X	X								X						
Blue-collar-worker supervisors	X			X						X	X	X	X	X	X	X	X			X							

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	
	High school diploma Technical school or Junior college College degree Jobs widely scattered Jobs concentrated Working with things Working with people Able to see physical Opportunity to Works as part of a Work is independently Directs activities Generally supervised Exposed to weather High level of work area Requires physical Repeats physical Requires stamina Competitive																									
Other industrial and related occupations																										
Boilermakers		X			X	X					X	X							X		X	X				
Electroplaters		X			X	X					X		X			X							X			
Forge shop workers					X	X				X		X	X		X					X		X				
Furnace tenders					X	X							X					X								
Furniture upholsterers		X			X	X					X		X				X							X		
Inspectors (manufacturing)						X	X					X	X	X		X	X					X	X			
Millwrights		X			X	X					X	X	X							X	X					
Motion picture projectionists		X			X	X							X			X	X						X			
Photographic laboratory workers					X	X				X		X				X						X	X			
Power truck operators					X	X						X	X										X			
Production painters					X	X						X	X		X								X			
Stationary engineers		X	X		X	X							X					X				X				
Waste water treatment plant operators					X	X							X				X	X		X	X					
Welders and oxygen arc cutters					X		X			X		X				X				X						
OFFICE OCCUPATIONS																										
Clerical occupations																										
Bookkeeping workers		X			X								X	X	X							X	X			
Cashiers					X				X				X	X	X							X	X			
File clerks		X			X		X					X	X									X	X			
Hotel front office clerks		X			X			X	X				X			X	X					X				
Office machine operators		X			X	X						X	X		X							X	X			
Postal clerks					X	X						X				X	X				X		X			
Receptionists		X			X			X	X				X			X										
Shipping and receiving clerks					X	X						X	X		X						X		X			

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
	High school diploma	Technical school diploma	Junior college	College degree	Jobs widely scattered	Jobs concentrated in apprenticeship	Working with scattered	Working with things	Helping with things	Working with people	Ability to see people	Opportunity for physical work	Works as part of a team	Work is independently	Directs activities	Generally supervised	Overtime or shift work	Exposed to weather	High level of wear	Requires physical stamina	Repetitious work	Motivates others	Competitive		
Clerical occupations																									
Statistical clerks	X			X			X					X	X	X							X	X			
Stock clerks				X	X							X	X							X					
Stenographers	X			X	X				X			X	X	X							X	X			
Typists	X			X	X				X			X	X	X							X	X			
Computer and related occupations																									
Electronic computer operating personnel	X			X	X							X	X	X	X						X	X			
Programmers	1*	1		X			X					X		X	X							X			
Systems analysts				C	X		X					X										X			
Banking occupations																									
Bank clerks	X			X								X	X	X								X	X		
Bank officers				C	X		X	X				X	X						X			X			
Bank tellers	X			X			X	X				X	X	X								X			
Insurance occupations																									
Actuaries				C	X	X				X	X		X									X	X		
Claim adjusters	X			X			X	X				X						X				X			
Claim examiners	X			X	X							X	X					X				X	X		
Underwriters				C	X	X						X										X			
Administrative and related occupations																									
Accountants				C	X		X					X		X								X	X		
Advertising workers				C	X	X				X	X							X						X	X
City managers				C	X		X	X				X		X					X			X			
College student personnel workers				C	X		X	X				X		X					X					X	
Credit officials	X			X	X							X	X	X					X			X	X		
Hotel managers and assistants				C	X		X	X				X	X	X					X			X			

* See footnotes at end of table.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25			
	High school diploma	Technical diploma	Junior school or college	College degree	Jobs widely scattered	Jobs concentrated in localities	Working with things	Helping with ideas	Working with people	Ability to see people	Works as part of a team	Work is self-expression	Directly supervised	Generally supervised	Overtime or shift work	Exposed to weather	Requires physical stamina	Repetitious work	Motivates others	Competitive								
Administrative and related occupations																												
Industrial traffic managers				C	X			X						X		X				X		X						
Lawyers				G	X			X	X		X		X				X		X		X		X	X	X			
Marketing research workers				C		X		X					X									X			X			
Personnel workers				C	X				X	X			X		X					X		X						
Public relations workers				C		X		X				X	X				X				X		X	X	X			
Purchasing agents				C	X			X					X		X					X		X		X	X			
SERVICE OCCUPATIONS																												
Cleaning and related occupations																												
Building custodians					X		X						X	X							X							
Hotel housekeepers and assistants					X			X					X	X								X						
Pest controllers	X				X		X						X						X		X							
Food service occupations																												
Bartenders					X			X	X				X			X	X											
Cooks and chefs	X			X	X	X		X				X		X	X													
Meatcutters	X			X	X								X		X						X		X					
Waiters and waitresses				X				X	X			X					X				X							
Personal service occupations																												
Barbers	X			X				X	X	X							X						X					
Bellhops and bell captains				X				X	X				X				X				X							
Cosmetologists	X			X				X	X	X							X											
Funeral directors	X			X				X	X				X	X	X													
Private household service occupations																												
Private household workers				X		X	X						X	X							X							

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25		
	High school diploma	Technical school or junior college	College degree	Jobs widely scattered	Jobs concentrated	Working with things	Helping with things	Working with people	Working with things	Working with people	Working with things	Working with people	Working with things	Working with people	Working with things	Working with people	Working with things	Working with people	Working with things	Working with people	Working with things	Working with people	Working with things	Working with people	Working with things		
Protective and related service occupations																											
FBI special agents				G		X		X	X			X						X		X	X	X					
Firefighters	X			X		X		X				X						X	X		X						
Guards				X									X					X		X	X						
Police officers	X			X				X	X				X	X				X	X	X	X	X					
State police officers	X			X				X	X				X	X				X	X	X	X	X					
Health and regulatory inspectors (Government)				C	X			X					X							X		X		X			
Construction inspectors (Government)	X	X		X		X		X					X						X	X	X	X					
Other service occupations																											
Mail carriers				X		X		X					X						X		X						
Telephone operators	X			X		X		X					X					X	X								
EDUCATION AND RELATED OCCUPATIONS																											
Teaching occupations																											
Kindergarten and elementary school teachers				C	X			X	X	X		X	X	X	X	X	X	X	X	X				X	X		
Secondary school teachers				C	X			X	X	X		X	X	X	X	X	X	X	X	X				X			
College and university teachers				G	X			X	X	X		X	X	X	X	X	X	X	X	X				X			
Library occupations																											
Librarians				G	X			X					X					X		X				X			
Library technicians				X	X			X					X					X		X				X			
SALES OCCUPATIONS																											
Automobile parts counter workers				X		X		X	X				X														
Automobile salesworkers	X			X				X	X				X					X						X	X	X	
Automobile service advisers	X			X				X	X				X														
Gasoline service station attendants				X		X		X					X					X		X							
Insurance agents and brokers	X			X				X	X				X					X					X	X	X		

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25		
	High school diploma	Technical school or junior college	College degree	Jobs widely scattered	Working with things	Helping with ideas	Working with people	Ability to see physical results of work	Works as part of a team	Work is closely supervised	Generally activities supervised	Overtime or shift work	High level of wear/required	Requires physical conditions	Repetitious/detail	Motivates others	Competitive										
Manufacturers' salesworkers			C	X				X	X				X					X	X			X	X	X	X		
Models	X				X				X				X					X		X					X		
Real estate salesworkers and brokers	X			X				X	X				X					X	X		X		X	X	X		
Retail trade salesworkers				X				X	X				X					X						X	X		
Route workers				X				X	X				X					X	X		X			X			
Securities salesworkers			C	X				X	X	X			X					X	X					X	X		
Wholesale trade salesworkers	X			X				X	X				X					X			X		X	X	X		
CONSTRUCTION OCCUPATIONS																											
Asbestos and insulating workers	X			X	X					X			X				X				X		X				
Bricklayers	X			X	X					X		X						X		X							
Carpenters	X			X	X					X		X						X		X							
Cement masons (cement and concrete finishers)	X			X	X					X		X		X				X	X		X						
Construction laborers and carpenter's helpers				X	X							X	X					X	X		X		X				
Electricians (construction)	X			X	X					X		X						X		X							
Elevator constructors				X	X					X		X									X						
Floor covering installers	X			X	X					X		X									X						
Glaziers	X	X		X	X					X		X						X		X							
Lathers	X			X	X							X									X						
Marble setters, tile setters, and terrazzo workers				X	X					X		X					X				X						
Operating engineers (construction machinery operators)	X	X		X	X					X		X								X	X	X					
Painters and paperhangers	X			X	X					X		X									X						
Plasterers	X			X	X					X		X									X						
Plumbers and pipefitters	X			X	X					X		X									X						
Roofers	X			X	X					X		X								X	X						

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25		
	High school diploma	Technical school	Junior college	College degree	Jobs widely	Jobs concentrated	Working with things	Working with people	Helping with ideas	Working with things	Working with people	Ability to see physical results of work	Opportunity for self-expression	Works as part of a team	Work is independently	Directs activities	Generally supervised	Overnight or shift work	Exposed to weather	High level of responsibility	Requires physical stamina	Repetitious work	Motivates others	Competitive			
Sheet-metal workers	X	X			X	X				X			X			X					X						
Stonemasons			X		X	X				X			X					X		X							
Structural-, ornamental-, and reinforcing-iron workers, riggers, and machine movers		X			X	X				X			X					X		X							
OCCUPATIONS IN TRANSPORTATION ACTIVITIES																											
Air transportation occupations																											
Air traffic controllers	X					X	X					X			X	X	X		X	X							
Aircraft mechanics	X	X				X	X					X						X	X	X							
Flight attendants	X					X			X	X		X						X			X						
Airline dispatchers				C		X	X					X			X		X	X	X	X	X						
Flight engineers	X					X	X					X			X		X	X	X	X	X						
Ground radio operators and teletypists	X					X	X	X				X					X		X	X	X						
Pilots and copilots	X					X	X					X			X	X	X		X	X	X						
Traffic agents and clerks	X					X			X	X			X				X	X									
Merchant marine occupations																											
Merchant marine officers				C		X	X					X			X		X	X	X	X	X						
Merchant marine sailors						X	X					X		X			X	X				X					
Railroad occupations																											
Brake operators and couplers						X	X					X					X	X		X	X	X					
Bridge and building workers						X	X			X		X	X					X		X							
Clerks	X					X						X	X		X						X	X					
Conductors						X			X	X					X		X		X	X	X						
Locomotive engineers	X					X	X					X		X	X	X	X	X	X	X	X	X					
Locomotive firemen (helpers)	X					X	X					X	X				X	X	X	X	X	X					

High school diploma
 Technical diploma
 Junior school or college
 College degree
 Jobs widely held
 Jobs concentrated
 Working with things
 Working with people
 Helping with things
 Able to see physical
 Opportunity for self-expression
 Works as part of a team
 Work is independently
 Directs closely
 Generally supervised
 Exposed or confined to others
 High level of shift work area
 Requires physical conditions
 Works with responsibility
 Repeats with detail
 Motivates others
 Competitive

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	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25				
Railroad occupations																													
Shop trades workers		X			X	X							X	X					X										
Signal department workers					X	X							X						X	X									
Station agents					X			X	X				X				X	X					X						
Telegraphers, telephoners, and tower workers					X	X							X	X		X	X												
Track workers					X	X				X		X	X		X			X	X										
Driving occupations																													
Intercity busdrivers					X	X	X						X			X	X	X											
Local transit busdrivers					X	X	X						X			X	X	X											
Local truckdrivers					X	X							X			X	X	X	X		X								
Long-distance truckdrivers					X	X							X			X	X	X	X		X								
Parking attendants					X	X	X						X			X	X	X	X		X								
Taxi drivers					X	X	X						X			X	X	X								X			
SCIENTIFIC AND TECHNICAL OCCUPATIONS																													
Conservation occupations																													
Foresters					C	X	X						X	X		X	X	X	X	X									
Forestry aides and technicians					X	X	X						X						X	X	X								
Range managers					C	X		X					X						X	X									
Soil conservationists					C	X		X				X	X						X	X	X								
Engineers																													
Aerospace					C	X	X			X	X	X		X					X	X									
Agricultural					C	X	X			X	X	X		X											X				
Biomedical					C	X	X			X	X	X		X											X				
Ceramic					C	X	X			X	X	X		X											X				
Chemical					C	X	X			X	X	X		X											X				
Civil					C	X		X		X	X	X		X					X	X				X					

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	
	High school diploma Technical diploma Junior school or college College degree Jobs widely held Jobs concentrated Working with things Working with people Able to see physical results of work Works as part of a team Work is independently Directs activities Generally supervised Exposed or shift work High level of weather required Requires physical stamina Repeats work Motivates others Competitive																									
Engineers																										
Electrical				C	X			X			X	X	X			X						X				
Industrial				C	X			X				X	X			X			X		X	X		X		
Mechanical				C	X			X			X	X	X			X						X				
Metallurgical				C	X			X			X	X	X			X						X				
Mining				C	X			X			X	X	X			X			X	X		X				
Environmental scientists																										
Geologists				G	X			X			X	X											X			
Geophysicists				C	X			X			X	X										X				
Meteorologists				C	X			X			X	X						X				X				
Oceanographers				C	X			X			X	X				X		X				X				
Life scientists																										
Biochemists				C	X			X			X												X			
Life scientists				G	X			X			X	X										X				
Soil scientists				C	X			X			X	X										X				
Mathematics occupations																										
Mathematicians				C	X			X			X	X				X						X				
Statisticians				C	X			X			X	X				X						X				
Physical scientists																										
Astronomers				C	X			X			X	X														
Chemists				C	X			X			X	X														
Food scientists				C	X			X			X	X														
Physicists				C	X			X			X	X														
Technicians																										
Broadcast technicians	X			X	X						X				X	X	X	X	X	X	X	X				

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
	High school diploma	Technical school or junior college	College degree	Jobs widely scattered	Jobs concentrated in localities	Working with things	Working with people	Helping with ideas	Ability to see physical results of work	Works as part of a team	Work is closely supervised	Generally supervised	Overtime or shift work	Exposed to weather	Requires level of work area	Requires weather conditions	Repetitious work	Physical stamina	Motivates others	Competitive					
Technicians																									
Drafters (draftsmen)			X	X			X						X	X		X						X			
Engineering and science technicians			X	X		X							X	X								X			
Food processing technicians			X	X		X							X	X								X			
Surveyors	X	2	2		X		X						X		X				X			X			
MECHANICS AND REPAIRERS																									
Telephone craft occupations					X		X							X											
Central office craft occupations	X			X	X				X				X	X		X	X					X	X		
Line installers and cable splicers	X			X	X								X	X				X	X		X	X			
Telephone installers and repairers	X			X	X								X					X	X		X	X			
Other mechanics and repairers																									
Air-conditioning, refrigeration, and heating mechanics				X	X			X					X					X							
Appliance repairers				X	X								X							X					
Automobile body repairers		X		X	X			X					X	X		X					X				
Automobile mechanics		X		X	X			X					X	X		X					X				
Boat-motor mechanics				X	X			X					X					X							
Bowling-pin-machine mechanics				X	X								X					X			X	X			
Business machine repairers	X	X		X	X								X									X			
Computer service technicians				X	X								X												
Diesel mechanics		X		X	X			X					X	X		X					X				
Dispensing opticians and optical technicians	X	X		X	X	X	X	X					X	X								X			
Electric sign repairers				X	X			X					X	X				X	X		X	X			
Farm equipment mechanics		X		X	X			X					X	X				X	X		X				
Industrial machinery repairers	X	X		X	X								X					X			X	X			
Instrument repairers	X	X		X	X								X					X				X			

* See footnotes at end of table.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25		
	High school diploma	Technical school	Junior college or apprenticeship	College degree	Jobs widely scattered	Working with things	Helping with things	Working with people	Ability to see physical results of work	Works as part of a team	Work is independently directed	Generally supervised	Exposure or shift work required	High level of weather required	Requires physical stamina	Repetitious work	Motivates others	Competitive									
Other mechanics and repairers																											
Jewelers and jewelry repairers		X		X	X								X			X						X					
Locksmiths				X	X								X									X					
Maintenance electricians		X		X	X								X														
Motorcycle mechanics				X	X					X			X														
Piano and organ tuners and repairers	X				X	X							X														
Shoe repairers				X	X					X			X			X					X	X					
Television and radio service technicians		X		X	X		X	X		X			X									X					
Truck and bus mechanics		X		X	X								X								X						
Vending machine mechanics					X	X				X	X		X	X			X				X	X					
Watch repairers		X		X	X					X	X		X	X			X					X					
HEALTH OCCUPATIONS																											
Dental occupations																											
Dentists				G	X				X	X	X	X	X						X			X					
Dental assistants			X	X					X	X		X	X	X			X						X				
Dental hygienists			X	X					X	X			X			X							X				
Dental laboratory technicians	X	X			X					X	X	X	X			X						X	X				
Medical practitioners																											
Chiropractors				C	X				X	X	X	X	X							X		X					
Optometrists				G	X				X	X	X	X	X				X		X		X						
Osteopathic physicians				G	X				X	X	X	X	X				X		X		X						
Physicians				G	X				X	X	X	X	X				X		X		X						
Podiatrists				G	X					X	X		X								X		X				
Veterinarians				G	X					X	X		X				X	X	X		X						

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25		
	High school diploma	Technical school	Junior college	College degree	Jobs widely scattered	Jobs concentrated in localities	Working with things	Helping with people	Working with people	Ability to see people	Opportunity for self-expression	Works as part of a team	Works independently	Directs activities of others	Generally supervised	Over time or shift work	Exposed to weather	High level of work area	Requires responsibility	Repetitious work	Physical stamina	Motivates others	Competitive	Others			
Medical technicians, technologists, and assistants occupations																											
Electrocardiograph technicians			X	X				X	X			X	X									X	X				
Electroencephalograph technicians			X	X				X	X			X	X									X	X				
Medical assistants			X	X				X	X			X	X			X						X					
Medical laboratory workers	X	3*	3	3	X	X	X					X	X			X		X			X						
Medical record technicians and clerks				C	X		X						X									X	X				
Operating room technicians	X			X				X	X			X	X									X					
Optometric assistants	X			X				X	X			X	X									X					
Radiologic (X-ray) technologists				C	X		X	X				X	X			X		X		X		X					
Respiratory therapists	X			X				X	X			X	X			X						X					
Nursing occupations																											
Registered nurses	X	4*	4	4	X			X	X			X	X	X	X	X	X	X	X	X	X	X					
Licensed practical nurses			5*	5	X			X	X			X	X			X						X					
Nursing aides, orderlies, and attendants					X			X	X			X	X			X											
Therapy and rehabilitation occupations																											
Occupational therapists				C	X			X	X	X	X	X	X	X	X	X						X					
Occupational therapy assistants	X			X				X	X	X		X	X														
Physical therapists				G	X			X	X	X	X	X	X	X	X				X		X						
Physical therapy assistants			5*	5	X			X	X	X		X	X														
Speech pathologists and audiologists				G	X			X	X	X	X	X	X	X	X				X		X						
Other health occupations																											
Dietitians				C	X			X	X				X	X								X					
Hospital administrators				G	X				X				X	X	X	X	X	X	X	X	X	X	X	X			
Medical record administrators				C	X		X						X									X	X				

* See footnotes at end of table.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25		
	High school diploma	Technical school or apprenticeship	Junior college	College degree	Jobs widely scattered	Jobs concentrated	Working with things	Working with people	Working with ideas	Ability to see physical	Works as part of a team	Work is independently	Directs activities	Generally supervised	Exposed to shift work area	High level of weather required	Requires physical stamina	Repetitious work	Motivates others	Competitive							
Other health occupations																											
Pharmacists				G X	X	X	X						X				X	X	X								
Sanitarians				C X	X								X									X					
SOCIAL SCIENTISTS																											
Anthropologists				G X		X				X	X											X					
Economists				C X	X					X	X											X					
Geographers				C X	X					X	X											X					
Historians				G X	X					X	X											X					
Political scientists				C X	X					X	X											X					
Sociologists				G X	X					X	X											X					
SOCIAL SERVICE OCCUPATIONS																											
Counselors																											
School counselors				C X			X X			X	X		X					X									
Employment counselors				C X			X X X			X	X X													X			
Rehabilitation counselors				C X			X X			X	X							X						X			
College career planning and placement counselors				C X			X X			X	X													X			
Clergy																											
Protestant ministers				G X			X X			X	X														X		
Rabbis				G X			X X			X	X														X		
Roman Catholic priests				G X			X X			X	X														X		
Other social service occupations																											
Cooperative extension service workers				C X			X X						X												X		
Home economists				C X			X X	X	X	X	X														X		
Psychologists				G X			X X	X	X	X	X							X	X	X					X		
Recreation workers				C X			X	X	X	X	X						X	X	X						X		

LIBRARY

Iowa Employment Security Commission
1000 East Grand Avenue
Des Moines, Iowa 50319

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25		
	High school diploma	Technical school or junior college	College degree	Jobs widely available	Jobs concentrated in certain areas	Working with people	Working with things	Helping people	Able to see physical results of work	Works as part of a team	Work is independently done	Directly supervises	Generally supervised	Exposed or confined to outdoors	High level of weather work required	Requires physical stamina	Repetitious detail	Motivates others	Competitive								
Other social service occupations																											
Social service aides						X		X	X			X		X				X									
Social workers			C	X				X	X				X	X						X					X		
ART, DESIGN, AND COMMUNICATIONS-RELATED OCCUPATIONS																											
Performing arts																											
Actors and actresses			X		X	X				X	X							X							X		
Dancers			X		X	X				X	X							X							X		
Musicians			C	6	X	X	6			X	X							X							X		
Singers			C	6	X	X	6			X	X														X		
Design occupations																											
Architects		X	C	X			X	X		X	X	X	X	X	X				X	X					X		
Commercial artists			X		X	X				X	X	X	X	X				X			X	X			X	X	
Display workers	X			X		X				X	X	X															
Floral designers				X	X					X	X	X					X										
Industrial designers			C	X	X					X	X	X															
Interior designers			X		X	X	X			X	X	X	X	X							X	X			X	X	
Landscape architects			C	X		X	X			X	X	X	X	X							X	X			X	X	
Photographers	X	X		X		X				X	X	X									X	X			X	X	
Urban planners			G	X	X	X				X	X				X				X	X	X			X	X	X	
Communications-related occupations																											
Interpreters			C	X		X	X			X				X				X									
Newspaper reporters			C	X		X	X			X	X	X						X	X	X	X				X	X	
Radio and television announcers	X			X		X							X				X	X							X	X	
Technical writers			C	X		X				X	X								X	X							

1. Requirements vary according to type of industry.

2. Postsecondary schooling required, usually in junior college, technical school, or vocational school.

3. Educational requirements vary according to area of work. See *Occupational Outlook Handbook* for details.

4. Type of training program depends on individual preference.

5. Training programs are available from vocational schools or junior college.

6. Teachers only.

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