



## Career Exploration with PLAN<sup>®</sup>

**Counselor/Instructor Directions:** The following materials are designed to help stimulate career exploration and postsecondary planning. These materials presume that students have completed the three steps in the “Your Career Possibilities” section on the PLAN Student Score Report. Before beginning this exercise, be sure your students have completed those steps.

### **Suggestion**

A brief discussion of the motivations that your students have toward their future careers may be a good way to engage students in the “Your Career Possibilities” exercise. Consider asking questions like: What kinds of jobs have you thought about doing after high school? Have you thought about which colleges you might like to go to or what you might like to major in? How do you think your high school coursework may affect your future? These are good ways to get a sense of your students’ goals and plans.

# Your Career Possibilities: Student Exercise

- A.** Steps 1–3 of “Your Career Possibilities” appear on side one of your PLAN Student Score Report. If you have not already done so, complete those steps.
- B.** Look over the Career Areas you circled in Step 3. Select at least two Career Areas that look interesting to you. Write them here.

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You have had a chance to think about things that interest you since you took PLAN. List here any Career Areas you would like to learn more about.

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- C.** Look at the Career Area Charts on pages 4 to 11. They list over 500 job titles by Career Area. Using the Career Areas listed above, check the charts for jobs that interest you. Write them down in the table on page 3. You can choose other Career Areas to explore later.
- D.** Write down the Career Area letter, job description page number, educational preparation level, and related high school courses to consider for each job you selected in Step C. All the information is in the Career Area Charts on pages 4 to 11.
- E.** Go to “Your Educational Plans for After High School” and “Your High School Course Plans Compared to Core” on side one of your PLAN Student Score Report. Now look at the level of preparation and related courses of the jobs you are exploring. Do your education plans put you on track to meet your goals? Besides core courses, what other courses should you consider?

Your PLAN test scores show you what skills you have now. You have time to decide what kind of job you would like to have and what kind of educational preparation is required. Make sure you ask for help when you need it.

Jobs to Explore	Career Area Letter	Job Descriptions A	Job Descriptions B	Educational Preparation Level (Prep Level)	Related High School Courses
Example: Broadcast Technician	N	page 324	page 261	2–3*	Math and Computers, Physical Sciences, Trade & Industrial

Job description numbers refer to pages in (A) 2008–2009 or (B) 2006–2007 edition of the *Occupational Outlook Handbook* (OOH), a book that describes jobs. Ask your teacher, counselor, or librarian for a copy of this book, or go to [www.bls.gov/oco/](http://www.bls.gov/oco/) on the Web.

Education Preparation Level shows the amount of education and training workers typically have.

- 1 High School and on-the-job training
- 2 High School and up to two more years of education/training
- 3 Four or more years of education/training beyond high school

\*Apprenticeship may be required

### What is the “World-of-Work Map”? How does it work?

Exploring careers is easier if you have a good map. The World-of-Work Map can give you a sense of direction. The map shows how Career Areas differ in their involvement with four basic work tasks:

- People: people you help, serve, care for, or sell things to
- Data: facts, numbers, files, business procedures
- Things: machines, tools, living things, and materials such as food, wood, or metal
- Ideas: knowledge, insights, and new ways of expressing something (with words, equations, music, etc.)

These four work tasks are the four “compass points” of the Map. For example, occupations in Career Area C (Management) mostly involve working with people and data, so it is located in the upper left part of the Map. On the other side of the Map, Career Area P (Natural Science & Technologies) mostly involves working with ideas and things.

### My interest inventory results are in Region 99. What does this mean?

Your pattern of interest scores does not suggest a clear direction at this time. As you complete Step 3 on your Score Report, think about your preferences for the four basic work tasks (People, Data, Things, Ideas). This can help you select Career Areas to explore.

### My interest inventory results don’t agree with the Career Area I chose. Is this a problem?

No. Each is important, and only you can decide how much attention each deserves. Talk to your counselor or teacher if you need to sort things out.

# Career Area Charts

The charts below group similar occupations (“jobs”) into career areas. Within each career area, jobs are arranged by the level of formal preparation (education and training) people in the jobs typically have. More than 500 jobs are listed. Information about each job listed can be found at the PLAN website: [www.actstudent.org/wwm/plan\\_world.html](http://www.actstudent.org/wwm/plan_world.html).

<b>KEY</b>	<p><b>Job Descriptions:</b> The <i>Occupational Outlook Handbook</i> (OOH) describes jobs and the outlook for job openings. Ask your counselor which source to use. A = 2008–09 OOH; B = 2006–07 OOH. When a specific job is not covered, but related jobs are, a ■ appears. The online OOH can be found at <a href="http://www.bls.gov/oco/">www.bls.gov/oco/</a></p>
	<p><b>Preparation (Prep) Level:</b> Typical amount of education/training: 1 = High school and on-the-job training; 2 = Up to two years beyond high school; 3 = Four or more years beyond high school. Many jobs have a wide range of typical education/training: 1–2 = 1 or 2; 1–3 = 1, 2, or 3; 2–3 = 2 or 3. * = Apprenticeship may be required.</p>
	<p><b>Related High School Courses:</b> General categories of high school courses that are most related to the occupation. Keep in mind that many of the courses that are required for high school graduation (e.g., English) are related to a wide range of occupations.</p>

Job	Job Descriptions A B		Prep Level	Related High School Courses														
				English	Social Studies	Math	Math & Computers	Physical Sciences	Life Sciences	Health & Fitness	Art	Music	Communications	Foreign Language	Agriculture	Business	Family/Consumer Sci.	Trade & Industrial
<b>ADMINISTRATION &amp; SALES CAREER CLUSTER</b>																		
<b>Career Area A: Employment-Related Services</b>																		
EMPLOYMENT INTERVIEWER	59	50	2-3		✓											✓		
COMPENSATION MANAGER	59	50	3		✓	✓										✓		
DIRECTOR (INDUSTRIAL RELATIONS)	59	50	3	✓	✓	✓										✓		
EMPLOYEE BENEFITS MANAGER	59	50	3		✓	✓										✓		
HUMAN RESOURCES MANAGER	59	50	3		✓											✓		
HUMAN RESOURCES RECRUITER	59	50	3		✓											✓		
JOB ANALYST	59	50	3		✓											✓		
LABOR RELATIONS SPECIALIST	59	50	3		✓											✓		
MEDIATOR	59	50	3		✓											✓		
TRAINING/EDUCATION MANAGER	59	50	3		✓											✓		
<b>Career Area B: Marketing &amp; Sales</b>																		
DRIVER (SALES ROUTE)	818	640	1*			✓										✓		
PRODUCT DEMONSTRATOR	516	408	1													✓		
SALES WORKER (RETAIL)	527	417	1-2*			✓										✓		
AUCTIONEER	516 ■	408 ■	2*			✓										✓		
TELEMARKETER	848	666	1-3*	✓												✓		
WEDDING CONSULTANT	114 ■	95 ■	1-3		✓											✓		
ANTIQUES/ART DEALER	—	—	2-3*		✓											✓		
FUND-RAISER	516 ■	408 ■	2-3	✓	✓											✓		
IMPORTER/EXPORTER	—	—	2-3*			✓										✓		
INSURANCE AGENT	520	411	2-3*			✓										✓		
REAL ESTATE AGENT	523	414	2-3			✓										✓		
SALES ENGINEER	529	419	2-3*					✓								✓		
SALES REPRESENTATIVE	532	421	2-3*													✓		
SECURITIES SALES AGENT	538	426	2-3				✓									✓		
SERVICES SALES REPRESENTATIVE	532 ■	421 ■	2-3				✓									✓		
TRAVEL AGENT	543	429	2-3*				✓									✓		
ACCOUNT EXECUTIVE (ADVERTISING)	509	27	3	✓												✓		
ADVERTISING MANAGER	30	27	3	✓												✓		
BUYER	76	64	3			✓										✓		
FINANCIAL SERVICES SALES REP	538	426	3			✓										✓		
SALES/MARKETING MANAGER	30	27	3			✓										✓		
<b>Career Area C: Management</b>																		
CLEANING SERVICE OPERATOR	476 ■	378 ■	2*			✓										✓		
ASSOCIATION EXECUTIVE	73	61	1-3	✓		✓										✓		
AUTO SERVICE STATION MANAGER	704	549	2-3*			✓										✓	✓	
CATERER	467	371	2-3*													✓	✓	
CONTRACT ADMINISTRATOR	27	25	2-3			✓										✓		
EVENT PLANNER	114 ■	95 ■	2-3													✓		
EXECUTIVE HOUSEKEEPER	67	53	2-3			✓										✓	✓	
FOOD SERVICE MANAGER	53	45	2-3													✓	✓	
FUNERAL DIRECTOR	56	48	2-3*					✓								✓	✓	
HOTEL/MOTEL MANAGER	67	53	2-3*			✓										✓	✓	
INSURANCE RISK MANAGER	106	88	2-3			✓										✓		
OFFICE MANAGER	608	479	2-3													✓		
POSTMASTER	844	662	2-3													✓		
PROJECT MANAGER	114 ■	95 ■	2-3			✓										✓	✓	
PUBLIC ADMINISTRATOR	27 ■	25 ■	2-3	✓	✓											✓		
RESTAURANT/BAR MANAGER	53	45	2-3			✓										✓	✓	
RETAIL STORE MANAGER	535	423	2-3*			✓										✓		
SUPERMARKET MANAGER	532 ■	421 ■	2-3			✓										✓		
AIRPORT MANAGER	844 ■	662 ■	3			✓										✓		

Related High School Courses

Job	Job Descriptions		Prep Level	English	Social Studies	Math	Math & Computers	Physical Sciences	Life Sciences	Health & Fitness	Art	Music	Communications	Foreign Language	Agriculture	Business	Family/Consumer Sci.	Trade & Industrial
	A	B																
BANK BRANCH MANAGER	50	42	3			✓										✓		
BUSINESS AGENT	843 ■	661 ■	3	✓							✓	✓				✓		
CITY MANAGER	80 ■	67 ■	3	✓									✓					
CLUB/RESORT MANAGER	67	53	3			✓										✓	✓	
CONTRACTOR/CONSTRUCTION MANAGER	36	32	3			✓										✓		✓
EMERGENCY MANAGER	843	661	3		✓											✓		✓
FINANCIAL MANAGER	50	42	3			✓										✓		
FOREIGN SERVICE OFFICER	—	—	3		✓									✓		✓		
GENERAL MANAGER/TOP EXECUTIVE	80	67	3										✓			✓		
LEGISLATOR	843	661	3		✓								✓			✓		
LOAN OFFICER/COUNSELOR	109	90	3			✓										✓		
LOGISTICS MANAGER	844 ■	662	3				✓									✓		
MANAGEMENT CONSULTANT	111 ■	92 ■	3	✓									✓			✓		
PRODUCTION MANAGER (INDUSTRY)	65	54	3													✓		✓
PROPERTY/REAL ESTATE MANAGER	73	61	3													✓		
PURCHASER	76	64	3			✓										✓		
SPORTS/ATHLETICS MANAGER	313 ■	252	3													✓		
<b>Career Area D: Regulation &amp; Protection</b>																		
BILL COLLECTOR	546	431	1-2			✓										✓		
CORRECTION OFFICER	450	357	1-2*		✓													
SECURITY GUARD	464	368	1-2*		✓													
HAZARDOUS MATERIALS TECHNICIAN	662	519	2					✓										
POLICE OFFICER	456	362	2*			✓												
PRIVATE DETECTIVE/INVESTIGATOR	460	366	2*			✓										✓		
SECURITY MANAGER	464	368	1-3*				✓									✓		✓
UMPIRE/REFEREE	313	252	1-3*							✓			✓					
DETECTIVE (POLICE)	456	362	2-3		✓													
FOOD AND DRUG INSPECTOR	416	331	2-3*						✓	✓								
OCCUPATIONAL HEALTH/SAFETY SPECIALIST	416	331	2-3					✓	✓	✓								
PARK RANGER	456 ■	362 ■	2-3			✓										✓		
CUSTOMS INSPECTOR	456	362	3			✓												
ENVIRONMENTAL HEALTH INSPECTOR	416 ■	331 ■	3					✓	✓	✓								
FBI/CIA AGENT	456	362	3		✓													
FISH AND GAME WARDEN	456 ■	362 ■	3					✓							✓			
INSURANCE CLAIM REPRESENTATIVE	848	666	3			✓										✓		
<b>BUSINESS OPERATIONS CAREER CLUSTER</b>																		
<b>Career Area E: Communications &amp; Records</b>																		
COUNTER/RENTAL CLERK	514	407	1			✓											✓	
TELEPHONE OPERATOR	598	471	1*										✓			✓		
RECEPTIONIST/INFORMATION CLERK	578	455	1*													✓		
HOTEL CLERK	568	448	1-2*			✓										✓		
OFFICE CLERK	610	481	1-2*													✓		
BILLING CLERK	548	432	2*													✓		
FILE CLERK	566	447	2*													✓		
FOREIGN TRADE CLERK	561 ■	442 ■	2*			✓								✓		✓		
HUMAN RESOURCES CLERK	570	449	2*													✓		
INTERVIEWING/NEW ACCOUNTS CLERK	572	666	2*													✓		
MEDICAL RECORD TECHNICIAN	411	328	2*						✓							✓		
MEDICAL SECRETARY	612	482	2*													✓		
MEDICAL TRANSCRIPTIONIST	438	348	2*	✓					✓							✓		
ORDER CLERK	576	454	2*													✓		
SECRETARY	612	482	2*													✓		
STATISTICAL CLERK	849	666	2*			✓										✓		
WORD PROCESS/DATA ENTRY KEYER	603	475	2*													✓		
ADMINISTRATIVE ASSISTANT/EXECUTIVE SECRETARY	612	482	1-3*	✓		✓										✓		
CUSTOMER SERVICE REPRESENTATIVE	563	444	1-3*										✓			✓		
MUNICIPAL CLERK	849	666	1-3*	✓		✓										✓		
ABSTRACTOR	845	663	2-3	✓					✓									
CAREER TECHNICIAN	—	—	2-3*	✓														
COURT REPORTER	246	199	2-3*													✓		
LEGAL SECRETARY	612	482	2-3*													✓		
TITLE EXAMINER/SEARCHER	849	663	2-3*													✓		
<b>Career Area F: Financial Transactions</b>																		
CASHIER	512	405	1*			✓											✓	
ACCOUNTING CLERK	550	434	1-2*			✓											✓	
CREDIT CLERK/AUTHORIZER	561	442	1-2*														✓	
AIRLINE RESERVATIONS AGENT	579	457	2*														✓	
BANK TELLER	557	440	2*			✓											✓	
PAYROLL CLERK	553	437	2*			✓											✓	
TAX PREPARER	844	662	2*			✓											✓	
TICKET AGENT	579	457	2*			✓											✓	
BOOKKEEPER	550	434	2-3			✓											✓	
BROKERAGE CLERK	560	441	2-3*														✓	
COST ESTIMATOR	99	83	2-3*			✓	✓										✓	
CREDIT ANALYST	843	661	2-3*			✓											✓	
REAL ESTATE APPRAISER	88	74	2-3														✓	
ACCOUNTANT/AUDITOR	83	70	3			✓											✓	

Related High School Courses

Job	Job Descriptions		Prep Level	English	Social Studies	Math	Math & Computers	Physical Sciences	Life Sciences	Health & Fitness	Art	Music	Communications	Foreign Language	Agriculture	Business	Family/Consumer Sci.	Trade & Industrial	
	A	B																	
BUDGET ANALYST	92	77	3				✓												
INSURANCE UNDERWRITER	106	88	3			✓													
TAX ACCOUNTANT	83	70	3			✓													
<b>Career Area G: Distribution &amp; Dispatching</b>																			
DISPATCHER	585	461	1*															✓	
MAIL CARRIER	589	464	1	✓															
MAIL CLERK (EXCEPT POST OFFICE)	848	666	1															✓	
MESSENGER/COURIER	583	460	1															✓	
METER READER	587	463	1			✓													
ORDER FILLER	595	469	1															✓	
POSTAL CLERK	589	464	1*			✓												✓	
WAREHOUSE WORKER	830	650	1															✓	
STOCK CLERK	595	469	1*															✓	
SHIPPING/RECEIVING CLERK	593	467	2*			✓												✓	
WAREHOUSE SUPERVISOR	854	671	2*															✓	
AIR TRAFFIC CONTROLLER	807	632	3			✓							✓						
FLIGHT DISPATCHER	807	632	3															✓	
<b>TECHNICAL CAREER CLUSTER</b>																			
<b>Career Area H: Transport Operation &amp; Related</b>																			
BUS DRIVER	811	634	1*																✓
CHAUFFEUR	815	637	1																✓
DELIVERY DRIVER	818	640	1*			✓													✓
LOCOMOTIVE ENGINEER	822	644	1*																✓
PARKING LOT ATTENDANT	856	673	1			✓													✓
RAILROAD BRAKER	822	644	1*																✓
RAILROAD CONDUCTOR	822	644	1*																✓
SAILOR	826	647	1*																✓
TAXICAB DRIVER	815	637	1																✓
TRUCK DRIVER (TRACTOR TRAILER)	830	650	1*																✓
AIRCRAFT PILOT	804	629	2-3*				✓	✓											✓
FLIGHT INSTRUCTOR	804	629	2-3*				✓	✓											✓
ASTRONAUT	—	—	3				✓	✓	✓										✓
SHIP CAPTAIN	826	647	3				✓	✓											✓
<b>Career Area I: Agriculture, Forestry &amp; Related</b>																			
FARM WORKER (GENERAL)	616	485	1																✓
FISHER	619	487	1*																✓
GROUNDSKEEPER (GARDENER)	479	380	1*						✓										✓
LOGGER	622	490	1*																✓
ANIMAL CARETAKER	485	384	1-2						✓										✓
NURSERY/GREENHOUSE WORKER	616	485	1-2*						✓										✓
PEST CONTROLLER	482	382	1-2*																✓
TREE SURGEON (ARBORIST)	479	380	2*																✓
AQUACULTURIST	46	40	1-3*						✓										✓
FARM MANAGER	46	40	2-3						✓										✓
FARMER (OWNER)	46	40	2-3*						✓										✓
FORESTRY TECHNICIAN	622	490	2-3*						✓										✓
NURSERY/GREENHOUSE MANAGER	616	485	2-3*																✓
FORESTER	185	153	3						✓										✓
<b>Career Area J: Computer &amp; Information Specialties</b>																			
COMPUTER SERVICE TECHNICIAN	686	536	2*				✓	✓											✓
LIBRARY ASSISTANT	574	453	2*	✓	✓														✓
COMPUTER SUPPORT SPECIALIST	136	113	1-3*				✓						✓						✓
DATABASE ADMINISTRATOR	129	107	2-3				✓												✓
DATABASE PROGRAMMER	129	107	2-3				✓												✓
DESKTOP PUBLISHER	605	477	2-3*								✓								✓
LIBRARY TECHNICIAN	269	217	2-3	✓	✓														✓
WEB SITE DEVELOPER	129	107	2-3			✓													✓
ACTUARY	123	102	3			✓	✓												✓
ARCHIVIST/CURATOR	261	210	3		✓														✓
COMPUTER NETWORK SPECIALIST	163	113	3				✓												✓
COMPUTER PROGRAMMER	126	104	3				✓												✓
COMPUTER SECURITY ANALYST	136	113	3			✓	✓												✓
COMPUTER SOFTWARE ENGINEER	133	111	3				✓												✓
COMPUTER SYSTEMS ANALYST	140	116	3			✓	✓												✓
INFORMATION SYSTEMS MANAGER	33	30	3			✓	✓												✓
INTERNET/INTRANET PROGRAMMER	140	116	3			✓	✓												✓
INVESTMENT ANALYST	102	85	3		✓	✓													✓
OPERATIONS RESEARCH ANALYST	145	121	3			✓													✓
<b>Career Area K: Construction &amp; Maintenance</b>																			
BRICKLAYER/STONEMASON	629	495	1*																✓
CUSTODIAN	476	378	1*																✓
CONCRETE MASON	639	502	1*																✓
CONSTRUCTION LABORER	649	509	1*																✓
DRYWALL INSTALLER	651	511	1*																✓
FLOOR COVERING INSTALLER	635	499	1*																✓
GLAZIER	660	517	1*																✓

Related High School Courses

Job	Job Descriptions		Prep Level	English	Social Studies	Math	Math & Computers	Physical Sciences	Life Sciences	Health & Fitness	Art	Music	Communications	Foreign Language	Agriculture	Business	Family/Consumer Sci.	Trade & Industrial
	A	B																
HEAVY EQUIPMENT OPERATOR	710 ■	555 ■	1*															✓
HIGHWAY MAINTENANCE WORKER	850	668	1															✓
HOUSEKEEPER (HOTEL)	476	378	1*														✓	
INSULATION WORKER	666	522	1*															✓
PAINTER (CONSTRUCTION)	668	523	1*															✓
PAPER HANGER	668	523	1*															✓
PLASTERER	675	528	1*															✓
ROOFER	677	530	1*															✓
STRUCTURAL METAL WORKER	682	534	1*															✓
TILE SETTER	635	499	1*															✓
TRACK WORKER (RAILROAD)	851	668	1															✓
BOAT BUILDER/REPAIRER	—	—	2*				✓											✓
CARPENTER	632	497	2*			✓												✓
ELECTRICIAN (CONSTRUCTION)	654	513	2*															✓
ELECTRICIAN (MAINTENANCE)	654	513	2*															✓
FIREFIGHTER	453	359	2*															✓
PIPEFITTER	671	525	2*															✓
PLUMBER	671	525	2*															✓
SECURITY SYSTEM INSTALLER	853	670	2*															✓
DIVER	—	—	1-3*					✓										✓
BUILDING/CONSTRUCTION INSPECTOR	642	504	2-3*				✓											✓
<b>Career Area L: Crafts &amp; Related</b>																		
BUTCHER/MEATCUTTER	744	581	1*															✓
HAND CRAFTER	789	616	1*							✓						✓		✓
SHOE REPAIRER	771	602	1*															✓
MUSICAL INSTRUMENT REPAIRER	735	575	1*									✓						✓
PATTERNMAKER	771 ■	602 ■	1*				✓											✓
TAILOR/DRESSMAKER	771	602	1*															✓
UPHOLSTERER	771	602	1*															✓
BAKER	744	581	1-3*															✓
CABINETMAKER	775	606	1-3*			✓	✓	✓										✓
WINEMAKER	—	—	1-3*				✓	✓	✓							✓		✓
CHEF	467	371	2-3*															✓
COOK	467	371	2-3*															✓
JEWELER	789	616	2-3*							✓								✓
<b>Career Area M: Manufacturing &amp; Processing</b>																		
ASSEMBLER	740	579	1*															✓
BLASTER/EXPLOSIVE WORKER	849	667	1*															✓
BOILERMAKER	627	494	1*															✓
DOCK WORKER	826	647	1*															✓
DRYCLEANER	771	602	1*															✓
ELECTROPLATER	754	589	1*															✓
FURNACE OPERATOR	854	672	1*															✓
HAND PACKER/PACKAGER	830	650	1															✓
HEAT TREATER	754	589	1*															✓
INSPECTOR (INDUSTRIAL)	786	614	1*															✓
KITCHEN HELPER	467 ■	371 ■	1															✓
MACHINE OPERATOR (INDUSTRIAL)	754	589	1*															✓
MATERIAL HANDLER	830	650	1*															✓
MINER	851	668	1*															✓
MOLDER	854	672	1*															✓
PREPRESS WORKER	765	598	1*							✓								✓
PHOTOGRAPHIC PROCESS WORKER	799	625	1*															✓
POWER PLANT OPERATOR	778	608	1*															✓
REFUSE COLLECTOR	830	650	1															✓
ROUSTABOUT	851	669	1															✓
SEWING MACHINE OPERATOR	771	602	1*															✓
SHEET METAL WORKER	679	531	1*															✓
TEXTILE MACHINE OPERATOR	771	602	1*															✓
WATER PLANT OPERATOR	783	612	1*															✓
AUTOMOTIVE PAINTER	796	622	2*															✓
BOOKBINDER	763	596	2*															✓
MACHINIST/TOOL PROGRAMMER	751	587	2*															✓
PRINTING PRESS OPERATOR	768	600	2*															✓
STATIONARY ENGINEER	780	610	2*															✓
TOOL AND DIE MAKER	758	592	2*															✓
WELDER	760	594	2*															✓
WOODWORKER	775	606	2*															✓
BREWER	—	—	1-3*				✓	✓	✓									✓
CHEESEMAKER	—	—	1-3*				✓	✓										✓
BLUE-COLLAR WORKER SUPERVISOR	849	667	2-3*												✓			✓
NUCLEAR REACTOR OPERATOR	778	608	2-3*															✓
<b>Career Area N: Mechanical &amp; Electrical Specialties</b>																		
AUTO SERVICE STATION ATTENDANT	856	673	1															✓
LOCKSMITH	852	670	1*															✓
MILLWRIGHT	733	573	1*															✓
MOBILE HEAVY EQUIP MECHANIC	710 ■	555 ■	1*															✓

Related High School Courses

Job	Job Descriptions		Prep Level	English	Social Studies	Math	Math & Computers	Physical Sciences	Life Sciences	Health & Fitness	Art	Music	Communications	Foreign Language	Agriculture	Business	Family/Consumer Sci.	Trade & Industrial
	A	B																
MOTION PICTURE PROJECTIONIST	847	665	1*															✓
MOTORCYCLE TECHNICIAN	714	558	1*															✓
SOLAR ENERGY SYSTEM INSTALLER	—	—	1*					✓										✓
MAINTENANCE MECHANIC (GENERAL)	731 ■	572 ■	1-2*															✓
AIR-COND/REFRIG/HEAT TECHNICIAN	718	562	2*				✓											✓
AIRCRAFT TECHNICIAN	697	554	2*				✓	✓										✓
APPLIANCE SERVICER (HOME)	722	565	2*															✓
AUTOMOTIVE BODY REPAIRER	701	547	2*															✓
AUTOMOTIVE TECHNICIAN	704	549	2*															✓
AVIONICS TECHNICIAN	697	554	2*				✓	✓										✓
BOAT/SMALL ENGINE MECHANIC	714	558	2*				✓											✓
DIESEL TECHNICIAN	707	552	2*					✓										✓
ELECTRONIC EQUIPMENT REPAIRER (INDUSTRIAL)	725	567	2*				✓											✓
ELEVATOR MECHANIC	657	516	2*															✓
FARM EQUIPMENT MECHANIC	710	555	2*															✓
HOME-ENTERTAINMENT EQUIPMENT REPAIRER	692	540	2*															✓
INDUSTRIAL MECHANIC	725 ■	567 ■	2*															✓
MEDICAL EQUIPMENT TECHNICIAN	735 ■	575 ■	2*					✓	✓									✓
OFFICE MACHINE SERVICER	686	536	2*															✓
POWER HOUSE MECHANIC	■	■	2*															✓
PRECISION INSTRUMENT REPAIRER	735 ■	546 ■	2*															✓
TELECOMM EQUIPMENT INSTALLER/REPAIRER	693	542	2*															✓
VENDING MACHINE MECHANIC	716	560	2*															✓
BROADCAST TECHNICIAN	324	261	2-3*				✓	✓										✓
GARAGE SUPERVISOR	704	549	2-3*			✓										✓		✓
SOUND TECHNICIAN	324	261	2-3*			✓	✓	✓										✓
TELECOMMUNICATIONS TECHNICIAN	693	542	2-3*			✓												✓
<b>SCIENCE &amp; TECHNOLOGY CAREER CLUSTER</b>																		
<b>Career Area O: Engineering &amp; Technologies</b>																		
AEROSPACE ENGINEERING TECHNICIAN	173	144	2				✓	✓										✓
CIVIL ENGINEERING TECHNICIAN	173	144	2*				✓	✓										✓
DRAFTER	170	141	2*				✓	✓										✓
ELECTRICAL/ELECTRONICS TECHNICIAN	173	144	2*				✓	✓										✓
ENERGY CONSERVATION TECHNICIAN	173	144	2*				✓											✓
INDUSTRIAL ENGINEERING TECHNICIAN	173	144	2*				✓	✓										✓
LASER TECHNICIAN	173 ■	144 ■	2*				✓	✓										✓
MECHANICAL ENGINEERING TECHNICIAN	173	144	2*				✓	✓										✓
METALLURGICAL TECHNICIAN	160 ■	133 ■	2*				✓	✓										✓
QUALITY CONTROL TECHNICIAN	786	614	2*				✓	✓										✓
ROBOT TECHNICIAN	173	144	2*				✓	✓										✓
STAGE TECHNICIAN	324	261	2*				✓											✓
SURVEY TECHNICIAN	156	130	2*				✓											✓
CARTOGRAPHER	156	130	2-3*		✓		✓											✓
TECHNICAL ILLUSTRATOR	292	235	2-3				✓				✓							✓
TOOL DESIGNER	758	592	2-3*				✓	✓			✓							✓
TRAFFIC ENGINEERING TECHNICIAN	856	467	2-3				✓	✓										✓
AEROSPACE ENGINEER	173	144	3				✓	✓										✓
AGRICULTURAL ENGINEER	160	133	3				✓	✓							✓			✓
ARCHITECT	150	125	3				✓				✓							✓
AUTOMOTIVE ENGINEER	160 ■	133 ■	3				✓	✓										✓
BIOMEDICAL ENGINEER	160	133	3				✓	✓	✓	✓								✓
CERAMIC ENGINEER	160	133	3				✓	✓										✓
CHEMICAL ENGINEER	160	133	3				✓	✓										✓
CIVIL ENGINEER	160	133	3				✓	✓										✓
COMPUTER ENGINEER	160	133	3				✓	✓										✓
ELECTRICAL/ELECTRONICS ENGINEER	173	144	3				✓	✓										✓
ENVIRONMENTAL ENGINEER	160	133	3				✓	✓	✓									✓
INDUSTRIAL ENGINEER	173	144	3				✓	✓										✓
LANDSCAPE ARCHITECT	153	128	3						✓		✓				✓			✓
MARINE ARCHITECT	150 ■	130 ■	3				✓	✓			✓							✓
MATERIALS ENGINEER	160	133	3				✓	✓										✓
MECHANICAL ENGINEER	173	144	3				✓	✓										✓
METALLURGICAL ENGINEER	160	133	3				✓	✓										✓
MINING ENGINEER	160	133	3				✓	✓										✓
NONDESTRUCTIVE TESTERS	160 ■	133 ■	3				✓	✓										✓
NUCLEAR ENGINEER	160	133	3				✓	✓										✓
PETROLEUM ENGINEER	160	133	3				✓	✓										✓
SAFETY ENGINEER	160	133	3				✓	✓	✓									✓
SOLAR ENERGY ENGINEER	160 ■	133 ■	3				✓	✓										✓
SURVEYOR	156	130	3				✓											✓
<b>Career Area P: Natural Science &amp; Technologies</b>																		
POLLUTION CONTROL TECHNICIAN	226 ■	185 ■	2*				✓											✓
SCIENCE TECHNICIAN	226	185	2*				✓	✓	✓									✓
CHEMICAL TECHNICIAN	226	185	2-3*				✓	✓										✓
CRIME LAB TECHNICIAN	226 ■	185 ■	2-3				✓	✓	✓									✓
METEOROLOGICAL TECHNICIAN	193 ■	159 ■	2-3				✓	✓										✓
TEXTILE TECHNICIAN	771	602	2-3*															✓



Related High School Courses

Job	Job Descriptions		Prep Level	English	Social Studies	Math	Math & Computers	Physical Sciences	Life Sciences	Health & Fitness	Art	Music	Communications	Foreign Language	Agriculture	Business	Family/Consumer Sci.	Trade & Industrial
	A	B																
ANIMAL SCIENTIST	177	147	3				✓	✓							✓			
ASTRONOMER	206	170	3				✓	✓										
BIOCHEMIST	181	80	3				✓	✓	✓									
BIOLOGIST	181	80	3				✓	✓	✓									
BOTANIST	181	80	3				✓	✓	✓									
CHEMIST	196	162	3				✓	✓										
ECOLOGIST	181	80	3				✓	✓	✓									
EPIDEMIOLOGIST	189	156	3				✓	✓	✓									
FOOD TECHNOLOGIST	177	147	3				✓	✓	✓						✓			
GENETICIST	181	80	3				✓	✓	✓									
GEOLOGIST	203	167	3				✓	✓	✓									
HORTICULTURIST	177	147	3				✓	✓	✓						✓			
HYDROLOGIST	203	167	3				✓	✓	✓									
MARINE BIOLOGIST	181	80	3				✓	✓	✓									
MATHEMATICIAN	142	119	3				✓	✓	✓									
METEOROLOGIST	193	159	3				✓	✓	✓									
MOLECULAR BIOLOGIST	181	80	3				✓	✓	✓									
OCEANOGRAPHER	203	167	3				✓	✓	✓									
FORENSIC SCIENTIST	226	185	3				✓	✓	✓									
PHARMACOLOGIST	181	80	3				✓	✓	✓									
PHYSICIST	206	170	3				✓	✓	✓									
PHYSIOLOGIST	181	80	3						✓									
PLANT SCIENTIST	177	147	3						✓						✓			
RANGE MANAGER	185	153	3						✓						✓			
SOIL CONSERVATIONIST	185	153	3						✓						✓			
STATISTICIAN	147	123	3				✓	✓	✓									
TOXICOLOGIST	181	80	3				✓	✓	✓	✓								
WILDLIFE BIOLOGIST	181	80	3					✓	✓	✓								
ZOOLOGIST	181	80	3					✓	✓	✓								
<b>Career Area Q: Medical Technologies</b>																		
OPTOMETRIC ASSISTANT	359	287	1-2*													✓		✓
CARDIOVASCULAR TECHNICIAN	396	316	2*						✓	✓								✓
DENTAL LABORATORY TECHNICIAN	792	619	2*						✓	✓	✓							✓
DIALYSIS TECHNICIAN	396	316	2*						✓	✓	✓							✓
EEG TECHNOLOGIST	396	316	2*						✓	✓	✓							✓
MEDICAL LABORATORY TECHNICIAN	399	318	2*				✓	✓	✓	✓								✓
OPTICIAN	419	334	2*				✓	✓	✓	✓								✓
PHARMACY TECHNICIAN	421	336	2*					✓	✓	✓								✓
SURGICAL TECHNOLOGIST	426	339	2*				✓	✓	✓	✓								✓
DIETETIC TECHNICIAN	844	662	2-3*						✓	✓								✓
EMBALMER	846	664	2-3						✓	✓								✓
NUCLEAR MEDICINE TECHNOLOGIST	413	330	2-3*					✓	✓	✓						✓		✓
RADIOLOGIC TECHNICIAN	424	337	2-3*					✓	✓	✓								✓
SONOGRAPHER	404	322	2-3*					✓	✓	✓								✓
WEIGHT REDUCTION SPECIALIST	354	284	2-3					✓	✓	✓								✓
CORONER	226	185	3		✓			✓	✓	✓								✓
CYTOTECHNOLOGIST	399	318	3				✓	✓	✓	✓								✓
DIETITIAN/NUTRITIONIST	354	284	3					✓	✓	✓								✓
MEDICAL TECHNOLOGIST	399	318	3					✓	✓	✓								✓
PERFUSIONIST	396	316	3				✓	✓	✓	✓								✓
PHARMACIST	361	289	3				✓	✓	✓	✓								✓
PROSTHETIST/ORTHOTIST	845	663	3					✓	✓	✓								✓
BLOOD BANK TECHNOLOGIST	399	318	3				✓	✓	✓	✓								✓
<b>Career Area R: Medical Diagnosis &amp; Treatment</b>																		
EMERGENCY MEDICAL TECHNICIAN	406	324	2*						✓	✓								✓
VETERINARY TECHNICIAN	428	341	2						✓	✓								✓
NURSE-MIDWIFE	379	303	1-3*						✓	✓								✓
RADIATION THERAPY TECHNOLOGIST	424	337	2-3*					✓	✓	✓								✓
RESPIRATORY THERAPIST	385	307	2-3*					✓	✓	✓								✓
ALLERGIST	369	295	3					✓	✓	✓								✓
ANESTHESIOLOGIST	369	295	3					✓	✓	✓								✓
AUDIOLOGIST	347	278	3					✓	✓	✓								✓
CHIROPRACTOR	349	280	3					✓	✓	✓								✓
DENTIST	351	282	3					✓	✓	✓								✓
INTERNIST	369	295	3					✓	✓	✓								✓
NURSE ANESTHETIST	379	303	3					✓	✓	✓								✓
NURSE PRACTITIONER	379	303	3					✓	✓	✓								✓
OBSTETRICIAN/GYNECOLOGIST	369	295	3					✓	✓	✓								✓
OCCUPATIONAL THERAPIST	357	285	3		✓			✓	✓	✓								✓
OPTOMETRIST	359	287	3				✓	✓	✓	✓								✓
OSTEOPATHIC PHYSICIAN	369	295	3					✓	✓	✓								✓
PATHOLOGIST	369	295	3					✓	✓	✓								✓
PEDIATRICIAN	369	295	3					✓	✓	✓								✓
PHYSICAL THERAPIST	364	292	3					✓	✓	✓								✓
PHYSICIAN	369	295	3					✓	✓	✓								✓
PHYSICIAN ASSISTANT	366	293	3					✓	✓	✓								✓
PODIATRIST	372	298	3					✓	✓	✓								✓

Related High School Courses

Job	Job Descriptions		Prep Level	English	Social Studies	Math	Math & Computers	Physical Sciences	Life Sciences	Health & Fitness	Art	Music	Communications	Foreign Language	Agriculture	Business	Family/Consumer Sci.	Trade & Industrial
	A	B																
PSYCHIATRIST	369	295	3		✓				✓	✓								
RADIOLOGIST	369	295	3					✓	✓	✓								
SPEECH-LANGUAGE PATHOLOGIST	387	309	3	✓					✓	✓			✓					
SPORTS PHYSICIAN	369 ■	295 ■	3						✓	✓								
SURGEON	369	295	3						✓	✓								
VETERINARIAN	390	311	3						✓	✓								
<b>Career Area S: Social Science</b>																		
ANTHROPOLOGIST	222	182	3		✓				✓									
ARCHAEOLOGIST	222	182	3		✓				✓									
CRIMINOLOGIST	222 ■	182 ■	3		✓													
ECONOMIST	210	173	3		✓													✓
GEOGRAPHER	222	182	3		✓		✓	✓										
GERONTOLOGIST	222	182	3		✓				✓									
HISTORIAN	222	182	3	✓	✓													
MARKET RESEARCH ANALYST	213	175	3		✓	✓												✓
POLITICAL SCIENTIST	213	182	3		✓								✓					
PSYCHOLOGIST, EXPERIMENTAL	215 ■	177 ■	3		✓				✓									
SOCIOLOGIST	222	182	3		✓													
URBAN PLANNER	219	180	3		✓													✓
<b>ARTS CAREER CLUSTER</b>																		
<b>Career Area T: Applied Arts (Visual)</b>																		
FLORAL DESIGNER	301	242	2*									✓						
MERCHANDISE DISPLAYER	845	663	2*									✓						
ARTIST	292	235	1-3									✓						
GRAPHIC ARTIST (SOFTWARE)	303 ■	243 ■	1-3*				✓					✓						
SET DESIGNER	296 ■	238 ■	1-3*			✓						✓						
ANIMATOR	292	235	2-3*									✓						
CINEMATOGRAPHER	341	274	2-3*									✓						
FASHION ARTIST	298 ■	240 ■	2-3*									✓						✓
FASHION DESIGNER	298	240	2-3*									✓						✓
GRAPHIC ARTIST (PRINT MATERIALS)	303 ■	243 ■	2-3*									✓						
INTERIOR DESIGNER	306	245	2-3*									✓						✓
PHOTOGRAPHER	335	269	2-3*									✓						
VIDEO/FILM EDITOR	341	274	2-3*									✓						
ILLUSTRATOR	292	235	3									✓						
INDUSTRIAL DESIGNER	296 ■	238 ■	3				✓	✓				✓						
<b>Career Area U: Creative &amp; Performing Arts</b>																		
FASHION MODEL	516	408	1-2*									✓						✓
ACTOR	309	249	1-3*	✓									✓					
PROFESSIONAL ATHLETE	313	252	1-3							✓								
SINGER	319	257	1-3									✓						
DANCER/CHOREOGRAPHER	317	255	2-3*								✓	✓						
DRAMATIST (PLAYWRIGHT)	343 ■	275 ■	2-3	✓									✓					
MUSICIAN (INSTRUMENTAL)	319	257	2-3*									✓						
WRITER/AUTHOR	343	275	2-3*	✓									✓					
COMPOSER (MUSIC)	319	257	3									✓						
CONDUCTOR (MUSIC)	319	257	3									✓						
MOVIE/TV DIRECTOR	309	249	3	✓								✓	✓					
RADIO/TV PROGRAM WRITER	343	275	3	✓								✓						
STUNT PERFORMER	309 ■	249 ■	3			✓		✓										
<b>Career Area V: Applied Arts (Written &amp; Spoken)</b>																		
TRANSLATOR	327	263	1-3*															✓
INTERPRETER	327	263	2-3		✓								✓	✓				
PROOFREADER	848	666	2-3	✓														
RADIO/TV ANNOUNCER/NEWSCASTER	322	259	2-3*	✓									✓					
ADVERTISING COPYWRITER	343	275	3	✓														✓
COLUMNIST	332	267	3	✓														
CRITIC (BOOK/THEATER)	343 ■	275 ■	3	✓									✓					
EDITOR	343	275	3	✓														
LIBRARIAN	266	214	3	✓	✓													
LOBBYIST	338 ■	271 ■	3	✓	✓								✓					
PUBLIC RELATIONS SPECIALIST	338	271	3	✓	✓								✓					✓
REPORTER/JOURNALIST	332	267	3	✓	✓													
TECHNICAL WRITER	343	275	3	✓														
<b>SOCIAL SERVICE CAREER CLUSTER</b>																		
<b>Career Area W: Health Care</b>																		
GERIATRIC AIDE	441	350	1*						✓									
NURSING/PSYCHIATRIC AIDE	441	350	1*						✓									
DENTAL ASSISTANT	431	343	2*						✓	✓								
MEDICAL ASSISTANT	436	347	2*						✓									
NURSE (LICENSED PRACTICAL)	409	326	2*						✓									
PHYSICAL THERAPY ASSISTANT	448	356	2						✓									
PSYCHIATRIC TECHNICIAN	845	663	2*						✓	✓								
FITNESS TRAINER	494	392	1-3*						✓	✓								
DENTAL HYGIENIST	402	320	2-3				✓	✓	✓	✓								

Related High School Courses

Job	Job Descriptions		Prep Level	English	Social Studies	Math	Math & Computers	Physical Sciences	Life Sciences	Health & Fitness	Art	Music	Communications	Foreign Language	Agriculture	Business	Family/Consumer Sci.	Trade & Industrial
	A	B																
ATHLETIC TRAINER	393	314	3						✓	✓								
HEALTH SERVICES ADMINISTRATOR	70	59	3						✓									
MEDICAL RECORD ADMINISTRATOR	411	328	3						✓								✓	
NURSE (REGISTERED)	379	303	3						✓	✓								
RECREATIONAL THERAPIST	377	302	3		✓				✓	✓								
<b>Career Area X: Education</b>																		
DAYCARE OPERATOR (CHILD/ADULT)	491	389	2-3														✓	
HEALTH EDUCATOR	235	663	2-3						✓	✓								
TEACHER (PRESCHOOL)	282	235	2-3						✓									✓
TEACHER AIDE	272	219	2-3	✓														
ATHLETIC COACH	313	254	3						✓	✓								
COLLEGE/UNIVERSITY FACULTY	277	223	3	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
EDUCATIONAL ADMINISTRATOR	39	34	3	✓	✓								✓				✓	
TEACHER (ADULT EDUCATION)	274	221	3		✓													✓
TEACHER (ART/MUSIC/DRAMA/SPEECH)	309	249	3								✓	✓	✓					
TEACHER (BUSINESS)	282	227	3	✓													✓	
TEACHER (ELEMENTARY)	282	227	3	✓	✓						✓							
TEACHER (FOREIGN LANGUAGE)	282	235	3											✓				
TEACHER (KINDERGARTEN)	282	227	3		✓													
TEACHER (PHYSICAL EDUCATION)	282	227	3						✓	✓								
TEACHER (SECONDARY)	282	227	3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
TEACHER (SPECIAL EDUCATION)	289	232	3		✓				✓									
TEACHER (VOCATIONAL/TECHNICAL)	282	227	3															✓
TEACHER (VOCATIONAL AGRICULTURE)	282	227	3						✓						✓			
<b>Career Area Y: Community Services</b>																		
CREDIT COUNSELOR	109	90	2-3				✓										✓	
HUMAN SERVICES WORKER	240	194	2-3		✓													
LEGAL ASSISTANT/PARALEGAL	257	207	2-3	✓													✓	
VOLUNTEER COORDINATOR	506	400	2-3		✓								✓				✓	✓
WELFARE ELIGIBILITY WORKER	570	449	2-3		✓													
COUNSELOR (CAREER)	231	189	3		✓													
COUNSELOR (MENTAL HEALTH)	231	189	3		✓					✓								
COUNSELOR (REHABILITATION)	231	189	3		✓				✓									
COUNSELOR (SCHOOL/COLLEGE)	231	189	3		✓													
COUNSELOR (SUBSTANCE ABUSE)	231	189	3		✓					✓								
DIRECTOR (SOCIAL)	506	400	3		✓								✓				✓	
DIRECTOR (SOCIAL SERVICE)	506	400	3		✓												✓	
FARM/HOME MANAGEMENT ADVISOR	844	663	3												✓		✓	
HOME ECONOMIST	844	663	3														✓	✓
FINANCIAL PLANNER	102	85	3				✓										✓	
JUDGE	250	201	3	✓									✓					
LAWYER	253	204	3	✓	✓								✓					
MINISTER	844	662	3		✓								✓					
PAROLE OFFICER	238	192	3		✓													
PRIEST	844	662	3		✓								✓					
PSYCHOLOGIST, CLINICAL	215	177	3		✓					✓								
RABBI	844	662	3		✓								✓					
RECREATION LEADER	506	400	3		✓													
RESIDENTIAL COUNSELOR	231	189	3		✓													
SOCIAL WORKER	243	196	3		✓					✓							✓	
STUDENT SERVICES SPECIALIST	240	194	3		✓													
<b>Career Area Z: Personal Services</b>																		
AMUSEMENT/RECREATION ATTENDANT	845	664	1															✓
BARTENDER	472	374	1*				✓											
DINING ROOM ATTENDANT	472	374	1				✓											✓
FAST-FOOD WORKER	472	374	1				✓											
FOOD PREPARER/SERVER	472	374	1				✓											
GAMING OCCUPATIONS WORKER	501	397	1*				✓											
HOME HEALTH AND CARE AIDE	504	399	1*							✓								✓
HOST/HOSTESS	472	374	1														✓	✓
MANICURIST	489	387	1*															✓
PORTER	846	664	1															✓
PRIVATE HOUSEHOLD WORKER	476	378	1															✓
RECREATIONAL GUIDE	847	665	1*						✓	✓								
TRAVEL CLERK	579	457	1*				✓											
WAITER/WAITRESS	472	374	1				✓											
CHILDCARE WORKER (DOMESTIC)	491	389	1-2*							✓								✓
BARBER	489	387	2*															✓
ELECTROLOGIST	489	387	2*															✓
HAIRSTYLIST/COSMETOLOGIST	489	387	2*								✓							✓
TRAVEL GUIDE	847	665	2*		✓									✓				
MASSAGE THERAPIST	433	344	1-3*						✓	✓								
ANIMAL TRAINER	485	384	2-3*												✓			
FLIGHT ATTENDANT	498	394	2-3		✓									✓	✓			