

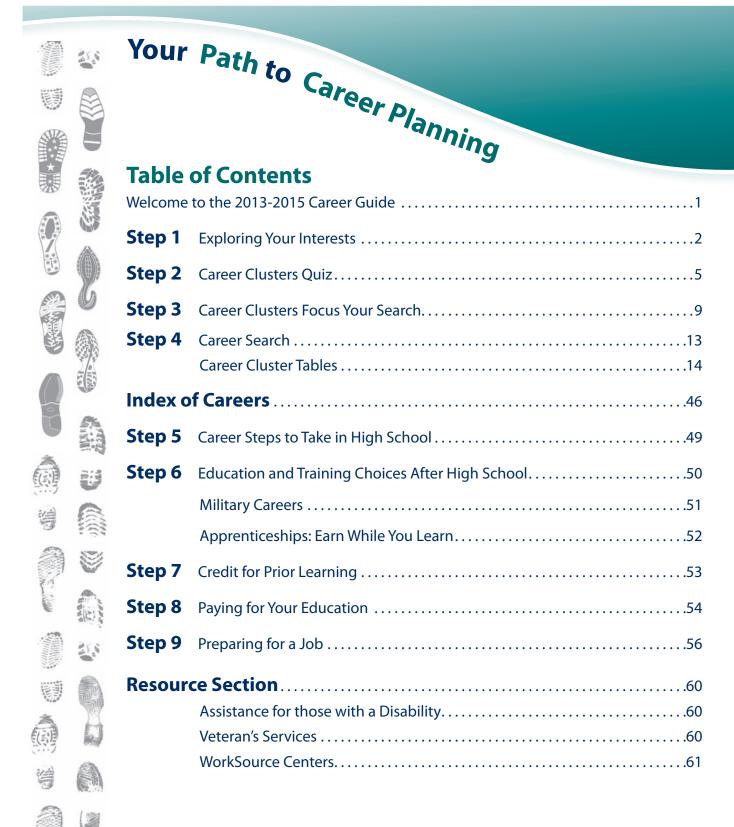
A Guide To Careers And Education In Washington

Your printed companion to www.CareerBridge.wa.gov

# Where are







### Welcome to Career Bridge and the Where Are You Going? guide

Choosing a career is one of life's big decisions. Will your career excite you and fulfill you? Will it pay enough to support you and your family? Will it give you opportunities to grow?

This guide starts you on a personal journey of career exploration.

- Do the suggested exercises.
- Circle your favorite jobs and schools.
- Make notes.

#### **Explore Career Bridge**

Get details on nearly 6,000 education and training programs at Washington's schools, colleges and universities with **CareerBridge.wa.gov**. This free, state website also lets you search hundreds of apprenticeships that provide a paycheck while you learn a high-wage skill.

#### **Follow these Steps**

- Step 1 Explore yourself. Reflect on what you have done in your life, what you do well, what you like, and what you don't.
- Step 2 Discover your interests with the Career Clusters Quiz. This simple exercise will help you look at your interests in a way that connects you to career choices.
- Step 3 Narrow your focus on specific career fields. See how sorting careers by topic can help you design a career path that allows for increasing responsibilities and income.
- Research occupations, learn what jobs pay—and whether they're growing. This guide and **CareerBridge.wa.gov** organize education and training by occupation, allowing you to search for careers that meet your personal and financial needs. When data is available, Career Bridge also provides "performance results" so you can see the percentage of students who completed an education program, if they got a job and how much they were paid on average.
- Step 5 If you are in middle school or high school, review these suggestions to better position yourself when you graduate.
- Step 6 Look over these options for after high school graduation, including learning while you work through apprenticeships or service in the military.
- Reduce the time you need to spend in the classroom. This step shows how you might get college credit for previous learning.
- Step 8 This step and the Pay for School area of **CareerBridge.wa.gov** will walk you through your options for paying for your education.
- Whether you're looking for part-time work while you're in school or climbing the first rung of your career ladder, you'll need to be able to present yourself to an employer. This step covers the essentials of resume preparation and job interviews that will help you land the job.

These nine steps will help you create a career plan that gets you where you want to go!

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### **Exploring your Interests**



How do you pick a career that's right for you? How do you avoid a job you won't like? How do you prepare for one you will like? There are no easy answers to these questions, and it's natural to feel overwhelmed. It helps to reflect on what you like to do, and what you're good at.

#### **Know Yourself**

Satisfaction and success depend on how well your skills and interests match the career you choose. When you're doing something that suits you, you're likely to excel. When there's a mismatch, it can lead to frustration and missed opportunities.

Get started by asking questions about yourself, using the six broad areas below. Take your time as you consider your answers. You may even want to take notes. Your responses will be helpful as you move through this guide and explore careers.

- **1. Interests**—Do you like working with people...or numbers...or objects? Do you like to be in charge or would you rather report to someone else? Are you scientific or technical? Do you like detail work? Do you enjoy expressing yourself through art or music?
- **2. Talents**—Do you have good writing and speaking skills? How about spatial perception and an understanding of how things fit together, or the ability to work with your hands? Are you good with numbers? What are your special talents?
- **3. Personality**—Do you like to work under stress or under frequent deadlines? Do you like to do a variety of things or focus on one area? Are you generally upbeat and outgoing or more reflective and quiet.
- **4. Education**—Are you interested in academics or are you more of a hands-on learner? Do you enjoy listening to lectures or would you rather read? Do you like to put things together and take them apart? How do you like to learn?
- **5. Working Conditions**—Can you handle a noisy workplace or an intensely quiet one? Do you prefer to sit or stand? Do you like working indoors or outdoors? Could you work in a job where there is a risk of injury? Can you work in a health care setting, where people are sick or hurt?
- **6. Pay and Work Hours**—How much money would you like to earn? Are you willing to travel? Are you willing to work the night shift, weekends or overtime? Are you comfortable in a competitive, commission-only job? Or do you prefer a steady paycheck?

#### Warmed up? Write it down.

Now take a quick inventory of who you are and what you like to do. Feel free to go beyond the numbered spaces and add as many things as you like. Some questions may not apply to you. Only answer questions that relate to your situation—whether you're in school, are looking to change jobs or are currently unemployed and looking for work.

### **WHO YOU ARE**

Α.	List three things (or more) you like to do.	
	1	- -
	3	-
В.	List careers that fit your hobbies.	
	1	-
	3	-
C.	Changing jobs? Why?  1	-
_	2	-
D.	Got a job? What do you wish was different?  1	
	2.	-
E.	List three jobs you see yourself doing.  1	
	2.	-
	3	-
- •	Are you limited in any way by your current status or condition, such as a disable transportation? (See pages 60-61 for more information on disabilities.) What a to overcome these hurdles?  1	are some ways
	2	-
	UCATION—Which jobs are you prepared for?	
yoı	nether you're in school or out of school, your education has a direct connection to the t u're qualified to do. Think about which jobs this education has prepared you for. Don't mber of lines. Enter as many jobs that come to mind for each education level.	
A.	High school diploma or GED	
	1	-
В.	Community or technical college	
	1	-
_	2	-
C.	University or four-year college  1	
	2.	-
D.	Other training or special courses of interest	
	1	_

#### **WORK EXPERIENCE**

Fill out a worksheet like the one below for each job you have held. Be sure to include part-time and volunteer work. This will help when creating a resume, and researching the next job you hope to land.

Employer's name:	
Supervisor:	
Dates worked from	to
Reason you left this job	
	re used
Tasks you performed	
1	4
2	5
3	6
Now, go back and prioritize each task in orde	er of the ones you liked the most.
1	4
2	5
3	6

Which task challenged you the most? How satisfying was the job? Would you like another one like this?

#### Now what?

The next exercise will help you target specific career areas. But save these notes. They will serve as a good starting point for writing a resume, college admission essays and letters of interest to employers.

### **Career Clusters Quiz**



**Directions:** Check the items in each box that best describe you. Check as many as you like. Add up the number in each box and see which three boxes have the highest numbers. Then find the corresponding Career Clusters on pages 14-45 to see which groups of related careers to explore.

1.	What I like to do:  Learn how things grow and stay alive.  Make the best use of the earth's natural resources.  Hunt and/or fish.  Protect the environment.  Be outdoors in all kinds of weather.  Plan, budget, and keep records.  Operate machines and keep them in good repair.	My personal qualities  Self-reliant  Nature lover  Physically active  Planner  Creative problem solver	School subjects I like:  Math Life Sciences Earth Sciences Chemistry Agriculture	Total number checked in Box 1
2.	What I like to do:  Read and follow blueprints and/or instructions.  Picture in my mind what a finished product looks like.  Work with my hands.  Perform work that requires precise results.  Solve technical problems.  Visit and learn from beautiful, historic, or interesting buildings.  Follow logical, step-by-step procedures.	My personal qualities  Curious Good at following directions Pay attention to detail Good at visualizing possibilities Patient and persistent	School subjects I like:  Math Drafting Chemistry, Physics Construction Trades Electrical Trades/ Heat, Air Conditioning and Refrigeration/ Technology Education	Total number checked in Box 2
3.	What I like to do:  Use my imagination to communicate new information to others.  Perform in front of others.  Read and write.  Play a musical instrument.  Perform creative, artistic activities.  Use video and recording technology.  Design brochures and posters.	My personal qualities  Creative and imaginative  Good communicator, good vocabulary  Curious about new technology  Relate well to feelings and thoughts of others  Determined/tenacious	School subjects I like:  Music Speech and Drama Journalism/Literature Audiovisual Technology	Total number checked in Box 3

5.	What I like to do:  ☐ Communicate with different types of people.  ☐ Help others with their homework or to learn new things. Go to school.  ☐ Direct and plan activities for others.  ☐ Handle several responsibilities at once.  ☐ Acquire new information.  ☐ Help people overcome their challenges.	My personal qualities	School subjects I like:  Language Arts Social Studies Math Science Psychology	Total number checked in Box 5
6.	What I like to do:  Work with numbers.  Work to meet a deadline.  Make predictions based on existing facts.  Have a framework of rules by which to operate.  Analyze financial information and interpret it to others.  Handle money with accuracy and reliability.	My personal qualities Trustworthy Orderly Self-confident Logical Methodical or efficient	School subjects I like: Accounting Math Economics Banking/Financial Services Business Law	Total number checked in Box 6
7.	What I like to do:  □ Be involved in politics. □ Negotiate, defend, and debate ideas and topics. □ Plan activities and work cooperatively with others. □ Work with details. □ Perform a variety of duties that may change often. □ Analyze information and interpret it to others. □ Travel and see things that are new to me.	My personal qualities Good communicator Competitive Service minded Well organized Problem solver	School subjects I like:  Government  Language Arts History Math Foreign Language	Total number checked in Box 7
8.	What I like to do:  ☐ Work under pressure. ☐ Help sick people and animals. ☐ Make decisions based on logic and information. ☐ Participate in health and science classes. ☐ Respond quickly and calmly in emergencies. ☐ Work as a member of a team. ☐ Follow guidelines precisely and meet strict standards of accuracy.	My personal qualities  Compassionate and caring Good at following directions Conscientious and careful Patient Good listener	School subjects I like:  Biological Sciences Chemistry Math Occupational Health Language Arts	Total number checked in Box 8

9.	What I like to do:  Investigate new places and activities.  Work with all ages and types of people.  Organize activities in which other people enjoy themselves.  Have a flexible schedule.  Help people make up their minds.  Communicate easily, tactfully, and courteously.  Learn about other cultures.	My personal qualities  Tactful Self-motivated Works well with others Outgoing Slow to anger	School subjects I like:  Language Arts, Speech Foreign Languages Social Sciences Marketing Food Services	Total number checked in Box 9
10.	What I like to do:  Care about people, their needs, and their problems.  Participate in community services and/or volunteering.  Listen to other people's viewpoints.  Help people be at their best.  Work with people from preschool age to old age.  Think of new ways to do things.  Make friends with different kinds of people.	My personal qualities Good communicator, good listener Caring Non-materialistic Uses intuition and logic Non-judgmental	School subjects I like:  Language Arts  Psychology, Sociology Family and Consumer Sciences Finance Foreign Language	Total number checked in Box 10
	What I like to do:	My personal qualities	School subjects I like:	
11.	<ul> <li>Work with computers.</li> <li>Reason clearly and logically to solve complex problems.</li> <li>Use machines, techniques, and processes.</li> <li>Read technical materials and diagrams and solve technical problems.</li> <li>Adapt to change.</li> <li>Play video games and figure out how they work.</li> <li>Concentrate for long periods without being distracted.</li> </ul>	Logical/analytical thinker See details in the big picture Persistent Good concentration skills Precise and accurate	<ul> <li>Math</li> <li>Science</li> <li>Computer Technology, Computer Applications</li> <li>Communications</li> <li>Graphic Design</li> </ul>	Total number checked in Box 11

13.	What I like to do:  ☐ Work with my hands and learn that way. ☐ Put things together. ☐ Do routine, organized, and accurate work. ☐ Perform activities that produce tangible results. ☐ Apply math to work out solutions. ☐ Use hand and power tools and operate equipment/machinery. ☐ Visualize objects in three dimensions from flat drawings.	My personal qualities	School subjects I like:  Math, Geometry Chemistry Trade and Industry Physics Language Arts	Total number checked in Box 13
14.	What I like to do:  Shop and go to the mall.  Be in charge.  Make displays and promote ideas.  Give presentations and enjoy public speaking.  Persuade people to buy products or to participate in activities.  Communicate my ideas to other people.  Take advantage of opportunities to make extra money.	My personal qualities  Enthusiastic Competitive Creative Self-motivated Persuasive	School subjects I like:  Language Arts  Math Business Education, Marketing Economics Computer Applications	Total number checked in Box 14
15.	What like to do:  ☐ Interpret formulas. ☐ Find the answers to questions. ☐ Work in a laboratory. ☐ Figure out how things work and investigate new things. ☐ Explore new technology. ☐ Experiment to find the best way to do something. ☐ Pay attention to details and help things be precise.	My personal qualities  Detail oriented Inquisitive Objective Methodical Mechanically inclined	School subjects I like:  Math Science Drafting, Computer-Aided Drafting Electronics, Computer Networking Technology Education	Total number checked in Box 15
16.	What I like to do:  ☐ Travel. ☐ See well and have quick reflexes. ☐ Solve mechanical problems. ☐ Design efficient processes. ☐ Anticipate needs and prepare to meet them. ☐ Drive or ride. ☐ Move things from one place to another.	My personal qualities  Realistic Mechanical Coordinated Observant Planner	School subjects I like:  Math Trade and Industry Chemistry, Physics Economics Foreign Language	Total number checked in Box 16

Tally up your scores. What are your top three areas? Career clusters allow you to view related careers that call for similar skills and interests, helping you explore different occupations, even as you narrow your search for a particular career. Turn to pages 9-12 to find the career cluster that corresponds with the box number.

### **Career Clusters Focus Your Search**



Career Clusters and their related career pathways help you narrow your career search—without necessarily narrowing your options. With each step in your education, you focus more on the specific skills needed for a particular job. Many pathways connect entry-level jobs to higher-level positions, allowing you to advance your career and get better paying jobs in the same career cluster as you continue your education.

With clusters, you're able to view related careers within a larger field. So, for example, you might be interested in business, investment planning and insurance services. All three career pathways fall within the Finance Career Cluster and rely on the same basic level of education.

Each career cluster gives you the flexibility to choose between career pathways as you move forward with your education plan. Each pathway provides access to many different types of jobs.

Explore these 16 Career Clusters:

#### 1. Agriculture, Food, and Natural Resources Career Cluster

Choose from seven pathways for careers in:

- Animal Systems.
- Agribusiness Systems.
- Environmental Service Systems.
- Food Products and Processing Systems.
- Natural Resources Systems.
- Plant Systems.
- Power, Structural, and Technical Systems.

Check out sample careers on Pages 14-15.

#### 2. Architecture and Construction Career Cluster

Choose from three pathways for careers in:

- Construction.
- Design/Pre-construction.
- Maintenance/Operations.

Check out sample careers on Pages 16-17.

#### 3. Arts, Audio/Video Technology, and Communications Career Cluster

Choose from six pathways for careers in:

- Audio/Video Techniques and Film.
- Journalism and Broadcasting.
- Performing Arts.
- Printing Technology.
- Telecommunications.
- Visual Arts.

Check out sample careers on Pages 18-19.







#### 4. Business, Management and Administration Career Cluster

Choose from five pathways for careers in:

- Administrative Support.
- Business Information Management.
- Operations Management.
- Human Resources Management.
- General Management.

Check out sample careers on Pages 20-21.

#### 5. Education and Training Career Cluster

Choose from three pathways for careers in:

- Teaching/Training.
- Administration and Administrative Support.
- Professional Support Services.

Check out sample careers on Pages 22-23.



Choose from five pathways for careers in:

- Banking Services.
- Accounting.
- Business Finance.
- Securities and Investments.
- Insurance.

Check out sample careers on Pages 24-25.

#### 7. Government and Public Administration Career Cluster

Choose from seven pathways for careers in:

- Foreign Service.
- Governance.
- National Security.
- Planning.
- Public Management and Administration.
- Regulation.
- Revenue and Taxation.

Check out sample careers on Pages 26-27.

#### 8. Health Science Career Cluster

Choose from five pathways for careers in:

- Biotechnology Research and Development.
- Diagnostic Services.
- Health Informatics.
- Support Services.
- Therapeutic Services.

Check out sample careers on Pages 28-29.











#### 9. Hospitality and Tourism Career Cluster

Choose from four pathways for careers in:

- Lodging.
- Recreation, Amusements, and Attractions.
- Restaurant and Food/Beverage Services.
- Travel and Tourism.

Check out sample careers on Pages 30-31.

man Services

#### 10. Human Services Career Cluster

Choose from five pathways for careers in:

- Consumer Services.
- Counseling and Mental Health Services.
- Early Childhood Development and Services.
- Family and Community Services.
- Personal Care Services.

Check out sample careers on Pages 32-33.

#### 11. Information Technology (IT) Career Cluster

Choose from four pathways for careers in:

- Information Support and Services.
- Web and Digital Communications.
- Network Systems.
- Programming and Software Development.

Check out sample careers on Pages 34-35.

#### 12. Law, Public Safety, Corrections, and Security Career Cluster

Choose from five pathways for careers in:

- Correction Services.
- Emergency and Fire Management Services.
- Law Enforcement Services.
- Legal Services.
- Security and Protective Services.

Check out sample careers on Pages 36-37.





#### 13. Manufacturing Career Cluster

Choose from six pathways for careers in:

- Production.
- Manufacturing Production Process Development.
- Maintenance, Installation, and Repair.
- Quality Assurance.
- Logistics and Inventory Control.
- Health, Safety, and Environmental Assurance.

Check out sample careers on Pages 38-39.

#### 14. Marketing, Sales and Service Career Cluster

Choose from five pathways for careers in:

- Merchandising.
- Marketing Management.
- Marketing Communications.
- Marketing Research.
- Professional Sales.

Check out sample careers on Pages 40-41.

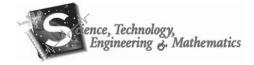


#### 15. Science, Technology, Engineering, and Mathematics (STEM) Career Cluster

Choose from two pathways for careers in:

- Engineering and Technology.
- Science and Math.

Check out sample careers on Pages 42-43.



nufacturing

#### 16. Transportation, Distribution and Logistics Career Cluster

Choose from seven pathways for careers in:

- Facility and Mobile Equipment Maintenance.
- Health, Safety, and Environmental Management.
- Logistics Planning and Management Services.
- Sales and Services.
- Transportation Operations.
- Transportation Systems/Infrastructure Planning, Management, and Regulation.
- Warehousing and Distribution Center Operations.

Check out sample careers on Pages 44-45.



### **Career Search**



After taking the Career Clusters Quiz, review which Career Clusters ranked high. Then turn to the pages of this booklet that feature those same Career Clusters. As you learn more about the type of work you would like to do, go online and use **CareerBridge.wa.gov** to explore the full range of occupations, including those not included in this booklet.

The guide below will help you understand the career search tables that follow.

**Occupational Description**: Basic job information.

**Annual Wages:** What you can expect to earn each year, working full time. Wages vary depending on where you live and are based on experience. Source: Washington Employment Security Department's Labor Market and Economic Analysis unit.

**Outlook:** Some jobs are in demand; others are not. The outlook shows the number of Washington residents employed in a particular occupation, the expected annual growth rate in jobs for that occupation based on a five-year (2010-15) projection, and the number of net vacancies or job openings expected per year (both new jobs and vacancies in existing jobs created by retirements). Source: Washington Employment Security Department.

Negative growth rates may still show openings because of retirement and other factors.

**Education:** This column lists the most common training required or recommended to enter a given occupation. Get specific details about 6,000 education programs at **CareerBridge.wa.gov** 

Occupational Description	Annual Wages	Outlook	Education (Most common training requirements.)
Farmers, Ranchers, and Other Agricultural Managers plan and direct the management of farms, ranches, nurseries and timber tracts.	Entry: \$55,425 Average: \$81,173	464 Employed 0.3% Growth 10 Openings/year	High School Diploma





Occupational Description	Annual	Wages		Outlook	Education (Most common training requirements.)
Agricultural Equipment Operators drive and control farm equipment to till soil, and plant and harvest crops.	Entry: Average:	\$22,157 \$28,691	0.8%	Employed Growth Openings/year	High School Diploma
<b>Agricultural Inspectors</b> inspect agricultural commodities, processing equipment, and facilities.	Entry: Average:	\$28,737 \$39,992	0.1%	Employed Growth Openings/year	Associate's Degree or Technical Certificate
Conservation Scientists manage and help protect soil and rangelands.	Entry: Average:	\$46,022 \$65,125	-0.1%	Employed Growth Openings/year	Bachelor's Degree
Farmers, Ranchers, and Other Agricultural Managers plan and direct the management of farms, ranches, nurseries and timber tracts.	Entry: Average:	\$55,425 \$81,173	0.3%	Employed Growth Openings/year	High School Diploma
<b>Fish and Game Wardens</b> prevent fish and game law violations.	Entry: Average:	\$48,518 \$60,144	-0.2%	Employed Growth Openings/year	Bachelor's Degree
<b>Fishers and Related Fishing Workers</b> catch and gather fish from rivers, lakes, or oceans.	Entry: Average:	\$28,532 \$45,352	-1.5%	Employed Growth Openings/year	On-the-Job Training
Food Scientists and Technologists determine the best ways to process, package, preserve, store, and distribute food.	Entry: Average:	\$35,224 \$57,101	0.8%	Employed Growth Openings/year	Bachelor's Degree
<b>Foresters</b> manage forests for economic, recreational, and conservation purposes.	Entry: Average:	\$45,943 \$57,430	0.1%	Employed Growth Openings/year	Bachelor's Degree
Landscape Architects design land areas for projects such as parks and other recreational facilities.	Entry: Average:	-	2.1%	Employed Growth Openings/year	Bachelor's Degree
Landscaping and Groundskeeping Workers maintain property, using hand or power tools or equipment.	Entry: Average:	\$22,400 \$30,572	1.7%	Employed Growth Openings/year	On-the-Job Training

### Career Cluster 1, Agriculture, Food & Natural Resources

Occupational Description	Annual	Wages		Outlook	Education (Most common training requirements.)
Mine Cutting and Channeling Machine Operators cut along the seams of coal mines, stone quarries, or other mining surfaces.	Entry: Average:	\$21,958 \$32,193	-1.1%	Employed Growth Openings/year	High School Diploma
Tree Trimmers and Pruners cut away dead or excess branches to maintain right-of-way for roads and utilities.	Entry: Average:		1.8%	Employed Growth Openings/year	High School Diploma
Veterinary Assistants and Laboratory Animal Caretakers feed, water, and examine animals for signs of illness, disease, or injury.	Entry: Average:	\$21,220 \$25,649	1.8%	Employed Growth Openings/year	High School Diploma
Zoologists and Wildlife Biologists study the origins, behavior, diseases, and genetics of animals and wildlife.	Entry: Average:	\$48,081 \$70,194	1.0%	Employed Growth Openings/year	Master's, PhD or Professional Degree

#### **Architecture & Construction**



Occupational Description	Annual		Outlook	Education (Most common training requirements.)
<b>Architects</b> plan and design all types of buildings and structures.	Entry: Average:	\$48,768 \$70,629	4,078 Employed 2.1% Growth 166 Openings/yea	Master's, PhD or Professional r Degree
Architectural and Civil Drafters prepare detailed drawings of architectural and structural features.	Entry: Average:	\$40,467 \$57,123	1,927 Employed 2.3% Growth 83 Openings/yea	Bachelor's Degree r
Brickmasons and Blockmasons lay and bind building materials.	Entry: Average:	\$45,753 \$62,374	1,032 Employed 1.6% Growth 38 Openings/yea	High School Diploma r
<b>Carpenters</b> cut, fit, and assemble wood and other materials to construct buildings.	Entry: Average:	\$32,699 \$50,329	35,332 Employed 1.2% Growth 1171 Openings/yea	High School Diploma r
Commercial Divers work underwater to build or repair structures. They also perform search and rescue.	Entry: Average:	\$44,217 \$82,057	182 Employed 2.6% Growth 8 Openings/yea	Associate's Degree or r Technical Certificate
Construction and Building Inspectors inspect new or remodeled structures.	Entry: Average:	\$49,246 \$66,306	2,758 Employed 0.7% Growth 92 Openings/yea	Associate's Degree or r Technical Certificate
<b>Construction Laborers</b> perform physical tasks at construction sites.	Entry: Average:	\$26,651 \$42,288	16,990 Employed 1.6% Growth 401 Openings/yea	On-the-Job Training r
<b>Construction Managers</b> plan, direct, or coordinate construction and maintenance activities.	Entry: Average:	\$67,851 \$104,164	12,835 Employed 0.8% Growth 159 Openings/yea	Bachelor's Degree r
<b>Crane and Tower Operators</b> lift and move materials, machines, or products in many directions.	Entry: Average:	\$55,734 \$72,956	2,546 Employed 2.5% Growth 137 Openings/yea	Associate's Degree or r Technical Certificate
Electrical Power-Line Installers and Repairers install and fix electrical power or distribution systems.	Entry: Average:	\$67,016 \$80,773	1,968 Employed 0.6% Growth 77 Openings/yea	Associate's Degree or r Technical Certificate
<b>Electricians</b> install, test, and maintain electrical systems.	Entry: Average:	\$40,901 \$60,843	14,682 Employed 2.0% Growth 696 Openings/yea	Associate's Degree or r Technical Certificate

### Career Cluster 2, Architecture & Construction

Occupational Description	Annual	Wages		Outlook	Education (Most common training requirements.)
<b>Glaziers</b> install glass in windows, skylights, store fronts, and displays.	Entry: Average:	\$28,972 \$51,488	2.0%	Employed Growth Openings/year	High School Diploma
Hazardous Materials Removal Workers identify, remove, transport, or dispose of hazardous materials.	Entry: Average:	\$35,879 \$52,094	2,006 1.5% 79	Employed Growth Openings/year	High School Diploma
Heating, Air Conditioning, and Refrigeration Mechanics and Installers fix or install heating and air conditioning systems.	Entry: Average:	\$35,475 \$52,047	4,831 2.8% 224	Employed Growth Openings/year	High School Diploma
Insulation Workers line and cover floors, ceilings and walls with insulating materials.	Entry: Average:	\$29,763 \$40,595	1,152 1.6% 62	Employed Growth Openings/year	High School Diploma
Operating Engineers and Other Construction Equipment Operators use construction equipment to excavate earth, erect structures, or pour concrete.	Entry: Average:	\$39,207 \$58,554	6,877 2.0% 294	Employed Growth Openings/year	Associate's Degree or Technical Certificate
<b>Plumbers and Pipefitters</b> install and repair pipe systems that carry water, steam, air, and other fluids or gases.	Entry: Average:	\$42,508 \$62,610	9,013 1.6% 412	Employed Growth Openings/year	High School Diploma
<b>Roofers</b> apply shingles and other materials to the roofs of buildings.	Entry: Average:	\$28,951 \$44,818	5,645 2.2% 246	Employed Growth Openings/year	High School Diploma
<b>Sheet Metal Workers</b> make and install metal building parts and products.	Entry: Average:	\$30,916 \$57,358	3,262 1.9% 122	Employed Growth Openings/year	High School Diploma
<b>Surveyors</b> measure and map land, air space, and water boundaries.	Entry: Average:	\$48,079 \$68,161	1,021 1.9% 42	Employed Growth Openings/year	Bachelor's Degree
<b>Tile and Marble Setters</b> apply hard tile, marble, and wood tile to walls, floors, ceilings, and roof decks.	Entry: Average:	\$40,794 \$52,823	1,140 1.4% 42	Employed Growth Openings/year	High School Diploma





Occupational Description	Annual	Wages	Outlook	Education (Most common training requirements.)
Audio and Video Equipment Technicians set up and operate audio and video equipment including video screens, speakers, and projectors.	Entry: Average:	\$29,931 \$47,440	964 Employed 1.0% Growth 37 Openings/year	Associate's Degree or Technical Certificate
<b>Broadcast Technicians</b> record or broadcast radio and television programs.	Entry: Average:	\$22,876 \$35,892	640 Employed 1.4% Growth 28 Openings/year	Associate's Degree or Technical Certificate
Camera Operators use motion picture, TV, or video cameras to film a wide range of subjects.	Entry: Average:	\$30,590 \$48,622	670 Employed 1.4% Growth 20 Openings/year	Associate's Degree or Technical Certificate Bachelor's
Commercial and Industrial Designers develop and design products such as cars, appliances, and children's toys.	Entry: Average:	\$36,621 \$60,099	954 Employed 2.0% Growth 50 Openings/year	Degree
<b>Editors</b> plan, coordinate, or edit material for publication.	Entry: Average:	\$37,098 \$70,163	3,199 Employed 2.4% Growth 179 Openings/year	Bachelor's Degree
<b>Film and Video Editors</b> edit film, video, and other media.	Entry: Average:	\$37,412 \$56,531	670 Employed 1.6% Growth 22 Openings/year	Associate's Degree or Technical Certificate
<b>Fine Artists</b> create art to communicate ideas, thoughts, or feelings.	Entry: Average:	\$38,600 \$70,782	1,150 Employed 1.9% Growth 50 Openings/year	Associate's Degree or Technical Certificate
<b>Graphic Designers</b> create designs using print, electronic, and film media.	Entry: Average:	\$33,367 \$53,593	6,024 Employed 2.1% Growth 323 Openings/year	Bachelor's Degree
<b>Interior Designers</b> plan, design, and furnish interiors of residential, commercial, or industrial buildings.	Entry: Average:	\$33,299 \$51,097	1,551 Employed 1.5% Growth 71 Openings/year	Bachelor's Degree
Music Directors and Composers conduct and lead instrumental or vocal performances by musical groups.	Entry: Average:	\$30,014 \$69,294	656 Employed 0.4% Growth 18 Openings/year	Bachelor's Degree

### Career Cluster 3, Arts, Audio/Video Technology, & Communications

Occupational Description	Annual Wages		Outlook	Education (Most common training requirements.)
Photographers produce images	Entry:	\$19,563	3,250 Employed	Associate's
that tell a story or record an event.	Average:	\$30,951	2.2% Growth	Degree or
			101 Openings/year	Technical Certificate
<b>Producers</b> select plays or scripts,	Entry:	\$22,081	1,808 Employed	Bachelor's
arrange financing, and make other	Average:	\$58,353	2.3% Growth	Degree
production decisions. <b>Directors</b> interpret plays or scripts by directing the work of the cast and crew.			97 Openings/year	
Sound Engineering Technicians	Entry:	\$30,797	417 Employed	Associate's
use console boards to record, copy,	Average:	\$59,329	1.3% Growth	Degree or
and edit music and voice.			18 Openings/year	Technical
				Certificate
Technical Writers write technical	Entry:	\$57,615	1,763 Employed	Bachelor's
materials such as equipment	Average:	\$83,910	2.5% Growth	Degree
manuals or operating instructions.			81 Openings/year	





Occupational Description	Annua	l Wages	Outlook	Education (Most common training requirements.)
Accountants and Auditors assemble, analyze, and check the accuracy of financial information.	Entry: Average:	\$47,322 \$69,680	25,803 Employed 1.6% Growth 945 Openings/year	Bachelor's Degree
Bookkeeping, Accounting, and Auditing Clerks manage the financial records of companies or clients.	Entry: Average:	\$28,363 \$39,906	44,526 Employed 1.5% Growth 1,185 Openings/year	Associate's Degree or Technical Certificate
<b>Chief Executives</b> plan, direct, or coordinate operational activities at the highest level of management.	Entry: Average:	\$103,508 \$192,737	4,360 Employed 1.4% Growth 177 Openings/year	Master's, PhD or Professional Degree
Customer Service Representatives handle and resolve customer complaints.	Entry: Average:	\$25,159 \$36,760	34,247 Employed 1.7% Growth 1,563 Openings/year	High School Diploma
Executive Secretaries and Administrative Assistants assist managers and direct office activities.	Entry: Average:	\$38,807 \$53,591	15,146 Employed 1.4% Growth 416 Openings/year	Associate's Degree or Technical Certificate
First-Line Supervisors of Office and Administrative Support Workers supervise and coordinate clerical and administrative support workers.	Entry: Average:	\$37,731 \$57,121	26,711 Employed 1.4% Growth 1,071 Openings/year	Associate's Degree or Technical Certificate
General and Operations Managers oversee the day-to- day activities of a company or organization.	Entry: Average:	\$67,536 \$125,114	25,378 Employed 1.3% Growth 752 Openings/year	Associate's Degree or Technical Certificate
Human Resources Managers plan and direct policies about employees.	Entry: Average:	\$71,028 \$110,078	2,763 Employed 1.8% Growth 118 Openings/year	Bachelor's Degree
<b>Legal Secretaries</b> perform clerical duties in law offices and are familiar with legal procedures.	Entry: Average:	\$32,723 \$46,861	3,671 Employed 0.7% Growth 75 Openings/year	Associate's Degree or Technical Certificate
<b>Medical Secretaries</b> perform office duties that use their knowledge of medical terms and procedures.	Entry: Average:	\$31,559 \$39,680	16,539 Employed 2.0% Growth 580 Openings/year	High School Diploma

### Career Cluster 4, Business, Management & Administration

Occupational Description	n Annual Wages		Outlook	Education (Most common training requirements.)
Meeting, Convention, and Event Planners organize events for groups of people.	Entry: Average:	\$32,144 \$47,387	1,558 Employed 1.4% Growth 50 Openings/ye	Bachelor's Degree ar
<b>Office Clerks</b> answer telephones, operate office machines, type, and file paperwork.	Entry: Average:	\$23,288 \$32,510	48,785 Employed 1.6% Growth 1,653 Openings/ye	High School Diploma ar
Property, Real Estate, and Community Association Managers direct the selling, buying, leasing, or governance of commercial, industrial, or residential real estate.	Entry: Average:	\$37,637 \$68,520	8,418 Employed 0.8% Growth 242 Openings/ye	Associate's Degree or ar Technical Certificate
<b>Public Relations Specialists</b> help build a positive public image for organizations.	Entry: Average:	\$40,189 \$62,697	5,772 Employed 1.4% Growth 232 Openings/ye	Bachelor's Degree ar
Receptionists and Information Clerks answer questions and provide information to customers, visitors, and the public.	Entry: Average:	\$22,718 \$29,962	21,965 Employed 1.9% Growth 1,153 Openings/ye	High School Diploma ar
<b>Sales Engineers</b> sell business goods or services and must have a technical background in engineering.	Entry: Average:	\$69,964 \$116,400	1,629 Employed 3.8% Growth 119 Openings/ye	Bachelor's Degree ar
Secretaries and Administrative Assistants draft correspondence, schedule appointments, maintain files, and answer phone calls.	Entry: Average:	\$28,085 \$37,788	35,895 Employed 1.4% Growth 1,019 Openings/ye	High School Diploma ar
Stock Clerks and Order Fillers receive and issue merchandise, materials, and equipment from stockrooms or warehouses.	Entry: Average:	\$20,960 \$29,690	35,638 Employed 1.6% Growth 1,508 Openings/ye	High School Diploma ar

### **Education & Training**



Occupational Description	ption Annual Wages			Outlook	Education (Most common training requirements.)
Adult Basic Education and Literacy Teachers teach basic education, English as a Second Language, and job training skills.	Entry: Average:	\$36,328 \$48,760	1.4%	Employed Growth Openings/year	Bachelor's Degree
<b>Coaches</b> teach and motivate players. <b>Scouts</b> seek out top athletes for a team or sport.	Entry: Average:	\$21,531 \$38,164	0.8%	Employed Growth Openings/year	Bachelor's Degree
<b>Curators</b> protect items of historic, cultural and artistic value. They study, catalog, preserve, and display documents and artifacts.	Entry: Average:	\$34,008 \$54,394	1.7%	Employed Growth Openings/year	Master's, PhD or Professional Degree
<b>College Administrators</b> direct research, instruction, and student administration at postsecondary institutions.	Entry: Average:	\$62,877 \$97,874	1.2%	Employed Growth Openings/year	Master's, PhD or Professional Degree
Elementary School Teachers teach students academic, social, and other skills at the elementary level.	Entry: Average:	\$47,092 \$60,200	1.2%	Employed Growth Openings/year	Bachelor's Degree
<b>Health Educators</b> manage health education programs that help people maintain healthy lifestyles.	Entry: Average:	\$33,343 \$50,988	1.6%	Employed Growth Openings/year	Bachelor's Degree
Instructional Coordinators develop materials and education content to help shape curriculum.	Entry: Average:	\$46,115 \$61,588	1.2%	Employed Growth Openings/year	Master's, PhD or Professional Degree
<b>Librarians</b> select and maintain materials, conduct research, and use databases to catalog information.	Entry: Average:	\$48,647 \$64,811	0.7%	Employed Growth Openings/year	Master's, PhD or Professional Degree
<b>Library Technicians</b> help readers locate books, answer common questions, and shelve materials.	Entry: Average:	\$30,586 \$40,214	0.5%	Employed Growth Openings/year	Bachelor's Degree
Middle and High School Teachers teach students in one or more subjects at the secondary level.	Entry: Average:	\$47,909 \$61,420	1.2%	Employed Growth Openings/year	Bachelor's Degree

## Career Cluster 5, Education & Training

Occupational Description	Annual Wages		Outlook	Education (Most common training requirements.)
Preschool Teachers help young children explore their interests, develop their talents, and learn how to behave with others.	Entry: Average:	\$22,049 \$29,368	6,713 Employed 1.3% Growth 262 Openings/year	Associate's Degree or Technical Certificate
<b>Teacher Assistants</b> provide teaching and clerical support for classroom teachers.	Entry: Average:	\$24,757 \$30,540	34,024 Employed 1.2% Growth 1,167 Openings/year	Associate's Degree or Technical Certificate
Training and Development Managers plan and direct training and development activities for an organization and their staff.	Entry: Average:	\$70,914 \$108,526	686 Employed 1.5% Growth 27 Openings/year	Bachelor's Degree

#### **Finance**



Occupational Description	Annua	l Wages	Outlook	Education (Most common training requirements.)
Actuaries use math and statistics to calculate the odds that an event will happen. They design insurance programs and pension plans.	Entry: Average:	\$63,361 \$95,307	464 Employed 1.3% Growth 18 Openings/yea	Bachelor's Degree
<b>Appraisers and Assessors of Real Estate</b> estimate the value of items such as buildings, art, or antiques.	Entry: Average:	\$42,005 \$64,998	1,501 Employed 0.4% Growth 36 Openings/yea	High School Diploma Ir
<b>Brokerage Clerks</b> record the purchase and transfer of securities.	Entry: Average:	\$32,267 \$45,684	800 Employed -0.4% Growth 19 Openings/yea	Associate's Degree or Technical Certificate
Claims Adjusters, Examiners, and Investigators decide how much to pay on insurance claims.	Entry: Average:	\$47,350 \$64,453	6,679 Employed 0.1% Growth 175 Openings/yea	Associate's Degree or Technical Certificate
Credit Counselors advise and educate individuals or organizations on acquiring and managing debt.	Entry: Average:	\$31,758 \$39,029	626 Employed 1.2% Growth 23 Openings/yea	Associate's Degree or Technical Certificate
<b>Financial Analysts</b> collect, analyze, and interpret financial information.	Entry: Average:	\$58,427 \$86,891	4,082 Employed 2.7% Growth 199 Openings/yea	Bachelor's Degree
<b>Financial Managers</b> take care of the budgets and investments for companies.	Entry: Average:	\$72,609 \$117,365	12,028 Employed 1.4% Growth 375 Openings/yea	Bachelor's Degree
Insurance Sales Agents sell policies that provide financial protection in case of death, accidents, or acts of nature.	Entry: Average:	\$27,629 \$54,148	8,137 Employed 0.9% Growth 256 Openings/yea	Bachelor's Degree
Insurance Underwriters compute the risk of loss, set premium rates, and write policies that cover that loss.	Entry: Average:	\$50,867 \$81,218	1,956 Employed 0.2% Growth 65 Openings/yea	Bachelor's Degree
Loan Interviewers and Clerks process the paperwork associated with loan applications.	Entry: Average:	\$25,299 \$35,852	4,531 Employed 0.2% Growth 93 Openings/yea	Associate's Degree or Technical Certificate

## Career Cluster 6, Finance

Occupational Description	Annual	Wages	Outlook	Education (Most common training requirements.)
<b>Loan Officers</b> evaluate applicants' financial backgrounds and decide whether applicants receive loans.	Entry: Average:	\$48,458 \$78,252	6,319 Employed 1.0% Growth 223 Openings/year	Associate's Degree or Technical Certificate
Securities, Commodities, and Financial Services Sales Agents buy and sell securities or offer financial services.	Entry: Average:	\$31,918 \$73,926	5,251 Employed 0.5% Growth 176 Openings/year	Bachelor's Degree
Tax Examiners and Collectors, and Revenue Agents determine the amount of taxes owed or collect them.	Entry: Average:	\$43,846 \$58,946	1,545 Employed -0.2% Growth 34 Openings/year	Associate's Degree or Technical Certificate
<b>Tax Preparers</b> interview clients, review tax records, and fill out tax returns.	Entry: Average:	\$24,619 \$36,908	2,126 Employed 1.1% Growth 69 Openings/year	Associate's Degree or Technical Certificate
<b>Tellers</b> help customers with their banking activities.	Entry: Average:	\$23,158 \$28,411	10,775 Employed 0.2% Growth 511 Openings/year	High School Diploma

#### **Government & Public Administration**



Occupational Description	Annual	Wages	C	Dutlook	Education (Most common training requirements.)
Animal Control Workers enforce animal control laws.	Entry: Average:	\$25,453 \$42,345	0.2% 9	Employed Growth Openings/year	High School Diploma
<b>Court Reporters</b> record official court proceedings and perform other duties for a court of law.	Entry: Average:	\$25,585 \$49,530	1.2%	Employed Growth Openings/year	Associate's Degree or Technical Certificate
<b>Economists</b> study laws and market forces to understand and predict changes in business cycles.	Entry: Average:	\$60,990 \$81,567	0.8%	Employed Growth Openings/year	Master's, PhD or Professional Degree
Government Eligibility Interviewers help determine if people qualify for government assistance.	Entry: Average:	\$37,495 \$45,091	0.0%	Employed Growth Openings/year	Associate's Degree or Technical Certificate
Emergency Management Directors plan and direct disaster response or crisis management activities.	Entry: Average:	\$53,566 \$79,065	0.8%	Employed Growth Openings/year	Bachelor's Degree
<b>Legislators</b> are elected to develop, introduce or enact laws and statutes.	Entry: Average:	\$29,610 \$75,448	-0.3%	Employed Growth Openings/year	Bachelor's Degree
Occupational Health and Safety Specialists investigate workplaces and recommend ways to remove health hazards.	Entry: Average:	\$55,523 \$75,248	1.2%	Employed Growth Openings/year	Bachelor's Degree
Parking Enforcement Workers patrol city streets and issue tickets to parking violators and illegally parked vehicles.	Entry: Average:	\$36,099 \$47,172	0.1%	Employed Growth Openings/year	High School Diploma
<b>Postal Service Mail Carriers</b> sort mail and deliver it by vehicle or on foot.	Entry: Average:	\$46,541 \$53,829	-1.4%	Employed Growth Openings/year	High School Diploma

### Career Cluster 7, Government & Public Administration

Occupational Description	Annual Wages		Outlook	Education (Most common training requirements.)
Urban and Regional Planners conduct studies and develop proposals. They plan for growth and improvement of urban, suburban, and rural areas.	Entry: Average:	\$53,603 \$72,898	' '	Master's, PhD or Professional Degree
Water and Wastewater Treatment Plant Operators treat water so it is safe to drink. They also remove pollutants from wastewater so it is safe to return to the environment.	Entry: Average:	\$42,733 \$57,440	1,743 Employed 0.3% Growth 48 Openings/year	Associate's Degree or Technical Certificate

#### **Health Science**



Occupational Description	Annual	Wages	(	Outlook	Education (Most common training requirements.)
Cardiovascular Technologists and	Entry:	\$45,501	1,065	Employed	Associate's Degree
<b>Technicians</b> help identify and treat	Average:	\$67,829		Growth	or Technical
heart and blood vessel problems.		101/0-2		Openings/year	Certificate
<b>Dental Assistants</b> help with patient	Entry:	\$30,779		Employed	Associate's Degree
care, office tasks, and lab duties.	Average:	\$39,908		Growth	or Technical
care, office tasks, and lab daties.	/ werage.	433,300		Openings/year	Certificate
<b>Dental Hygienists</b> clean teeth and	Entry:	\$80,008		Employed	Associate's Degree
teach clients how to prevent tooth	Average:	\$91,779		Growth	or Technical
decay and gum disease.	/ c. a. g c.	42./		Openings/year	Certificate
, ,	Entry:	\$109,850		Employed	Master's, PhD
<b>Dentists</b> examine patients' teeth	,			Growth	or Professional
and mouth and correct dental	Average:	\$206,253			
problems.	F .	¢ c c 0.7 c		Openings/year	Degree
Diagnostic Medical Sonographers	Entry:	\$66,976	-	Employed	Associate's Degree
produce ultrasonic recordings of	Average:	\$81,070		Growth	or Technical
internal organs for use by physicians.				Openings/year	Certificate
<b>Dietetic Technicians</b> help dieticians	Entry:	\$25,767		Employed	High School
provide nutrition care.	Average:	\$36,731		Growth	Diploma
				Openings/year	
<b>Dieticians and Nutritionists</b> plan	Entry:	\$47,663		Employed	Master's, PhD
diets for patients and educate	Average:	\$62,041		Growth	or Professional
people about eating healthy foods.			61	Openings/year	Degree
Emergency Medical Technicians	Entry:	\$26,366	3,361	Employed	Associate's Degree
and Paramedics give emergency	Average:	\$51,679	1.2%	Growth	or Technical
care to ill or injured people.			102	Openings/year	Certificate
Home Health Aides care for	Entry:	\$21,749	9,755	Employed	High School
elderly, recovering, or patients with	Average:	\$25,162	2.5%	Growth	Diploma
disabilities, in their own homes.			368	Openings/year	
<b>Licensed Practical Nurses</b> (LPNs)	Entry:	\$39,598	9,741	Employed	Associate's Degree
care for people who are sick, injured,		\$47,783		Growth	or Technical
or have disabilities.		. ,	398	Openings/year	Certificate
Massage Therapists use their hands	Entry:	\$33,667		Employed	Associate's Degree
to provide treatment to the body.	Average:	\$54,409	-	Growth	or Technical
to provide treatment to the body.	, werage.	43 1, 103		Openings/year	Certificate
Medical and Clinical Laboratory	Entry:	\$31,866		Employed	Associate's Degree
<b>Technicians</b> conduct tests to help	Average:	\$42,381		Growth	or Technical
detect, diagnose, and treat diseases.	s.age.	÷ .2,501		Openings/year	Certificate
	Entry:	\$26,761		Employed	High School
Medical Equipment Preparers	Average:	\$35,299		Growth	Diploma
sterilize surgical instruments and medical equipment.	, werage.	733,233		Openings/year	Бірібіна
medical equipment.			01	Openings/year	

## Career Cluster 8, Health Science

Occupational Description	Annual	l Wages	(	Outlook	Education (Most common training requirements.)
Medical Records and Health	Entry:	\$28,555	5,323	Employed	High School
<b>Information Technicians</b> compile	Average:	\$39,690	1.8%	Growth	Diploma
and maintain medical records.			195	Openings/year	
<b>Optometrists</b> examine patients'	Entry:	\$70,741	512	Employed	Master's, PhD
eyes to diagnose vision problems.	Average:	\$122,118		Growth	or Professional
σ, σ		,	33	Openings/year	Degree
Pharmacists dispense drugs and	Entry:	\$99,702		Employed	Master's, PhD
provide information about their use.	Average:	\$115,838		Growth	or Professional
		. ,	242	Openings/year	Degree
Pharmacy Technicians help	Entry:	\$32,416		Employed	Associate's Degree
pharmacists provide medicines and	Average:	\$40,174		Growth	or Technical
other health care products.		,	234	Openings/year	Certificate
Physical Therapists treat patients	Entry:	\$64,646		Employed	Master's, PhD
to relieve their pain and increase	Average:	\$81,458		Growth	or Professional
strength and mobility.		, , , , , ,		Openings/year	Degree
Physician Assistants provide health	Entry:	\$81,681		Employed	Master's, PhD
care services under the supervision	Average:	\$105,303		Growth	or Professional
of doctors.	, werage.	7103/303		Openings/year	Degree
	Entry:	\$22,874		Employed	High School
<b>Psychiatric Aides</b> care for patients with mental disorders.	Average:	\$30,100		Growth	Diploma
with mental disorders.	/werage.	750,100		Openings/year	Dipioma
Radiologic Technologists create	Entry:	\$50,361		Employed	Associate's Degree
images of internal organs, tissues	Average:	\$65,847		Growth	or Technical
and bones.	, werager	400/01/		Openings/year	Certificate
	Entry:	\$57,265		Employed	Associate's Degree
<b>Registered Nurses</b> care for patients who are ill or injured.	Average:	\$76,373		Growth	or Technical
who are in or injured.	/werage.	710,515		Openings/year	Certificate
Respiratory Therapists evaluate	Entry:	\$53,023		Employed	Associate's Degree
and treat patients with breathing	Average:	\$64,242		Growth	or Technical
disorders.	/ werage.	70 1/2 12		Openings/year	Certificate
	Entry:	N/A		Employed	Master's, PhD
<b>Surgeons</b> treat diseases, injuries, and deformities, through surgery	Average:			Growth	or Professional
and other methods.	, werage.	7230,732		Openings/year	Degree
	Entry:	\$54,683		Employed	Master's, PhD
<b>Veterinarians</b> treat animal health	Average:	\$82,382		Growth	or Professional
problems and work to prevent, control, and cure animal diseases.	Average.	202,202		Openings/year	Degree
<u> </u>	Entra	¢27.077			
Veterinary Technologists and	Entry:	\$27,877		Employed Growth	Associate's Degree or Technical
<b>Technicians</b> perform health care	Average:	\$34,121			Certificate
duties to help veterinarians.			00	Openings/year	Certificate

### **Hospitality & Tourism**



Occupational Description	Annual	Wages	Outlook		Education (Most common training requirements.)
Athletes and Sports Competitors	Entry:	\$31,325	468	Employed	High School
compete in athletic events.	Average:	\$116,834	0.8%	Growth	Diploma
•			17	Openings/year	
<b>Bakers</b> mix and bake ingredients to	Entry:	\$21,189	3,734	Employed	High School
produce breads, pastries, and other	Average:	\$29,024	0.4%	Growth	Diploma
baked goods.			119	Openings/year	
Chefs and Head Cooks measure,	Entry:	\$30,620	2,375	Employed	Associate's
mix, and cook food according to	Average:	\$45,049		Growth	Degree or
recipes.	3	. ,	84	Openings/year	Technical
rec.pes.				. 3,	Certificate
Counter Attendants, Concession,	Entry:	\$19,500	19,091	Employed	On-the-Job
and Coffee Shop workers serve	Average:	\$22,672	1.6%	Growth	Training
food and drinks to customers.			2,598	Openings/year	
Fast Food Cooks prepare food for	Entry:	\$19,408	4,002	Employed	On-the-Job
customers at fast food restaurants.	Average:	\$21,545	1.7%	Growth	Training
			164	Openings/year	
Food Service Managers plan and	Entry:	\$38,750		Employed	Associate's
direct activities for organizations	Average:	\$63,312	2.2%	Growth	Degree or
that serve food and beverages.			214	Openings/year	Technical
					Certificate
Gaming Cage Workers conduct	Entry:	\$20,698		Employed	High School
financial transactions for patrons.	Average:	\$26,464	0.2%	Growth	Diploma
				Openings/year	
<b>Gaming Supervisors</b> supervise	Entry:	\$33,493		Employed	High School
and coordinate activities of workers	Average:	\$48,500		Growth	Diploma
in assigned gaming areas.			31	Openings/year	
Hotel, Motel, and Resort Desk	Entry:	\$20,895	4,859	Employed	High School
<b>Clerks</b> provide services for hotel	Average:	\$24,421	1.8%	Growth	Diploma
guests.			305	Openings/year	
Janitors and Cleaners keep	Entry:	\$20,863	43,821	Employed	On-the-Job
buildings clean and in good	Average:	\$28,935		Growth	Training
condition.			1,554	Openings/year	
Lodging Managers plan and direct	Entry:	\$35,590	694	Employed	Associate's
activities for organizations that	Average:	\$55,484		Growth	Degree or
provide lodging.	5.5	. ,		Openings/year	Technical
provide loaging.				, 3.7	Certificate
	Entry:	\$19,722	49,218	Employed	On-the-Job
Maids and Housekeeping	Lilei y .	1 /	,		
Maids and Housekeeping Cleaners clean rooms at hotels,	Average:	\$23,967		Growth	Training

## Career Cluster 9, Hospitality & Tourism

Occupational Description	Annual Wages		Outlook	Education (Most common training requirements.)
Travel Guides plan, organize, and	Entry:	\$32,062	260 Employed	Associate's
conduct long distance travel, tours, and expeditions.	Average:	\$43,019	1.5% Growth	Degree or
			13 Openings/year	Technical
				Certificate
<b>Umpires and Referees</b> regulate play at sports events.	Entry:	\$19,886	396 Employed	Associate's
	Average:	\$27,469	0.8% Growth	Degree or
			14 Openings/year	Technical
				Certificate
Waiters and Waitresses serve food	Entry:	\$19,348	41,343 Employed	On-the-Job
in restaurants and diners.	Average:	\$27,381	1.7% Growth	Training
			3,006 Openings/year	

#### **Human Services**



Occupational Description	Annual Wages		Outlook		Education (Most common training requirements.)
Child, Family, and School Social	Entry:	\$30,857	3,554	Employed	Bachelor's
Workers provide social services	Average:	\$45,866	1.8%	Growth	Degree
and assistance to families and children.			152	Openings/year	
Childcare Workers supervise, care	Entry:	\$19,569	43,046	Employed	High School
for, and teach children in daycare.	Average:	\$23,070	1.8%	Growth	Diploma
,			2,224	Openings/year	
<b>Clergy</b> provide spiritual leadership.	Entry:	\$33,338	2,085	Employed	Master's, PhD
	Average:	\$52,861	1.0%	Growth	or Professional
			53	Openings/year	Degree
Clinical, Counseling, and School	Entry:	\$51,853	3,316	Employed	Master's, PhD
Psychologists diagnose and	Average:	\$74,479	1.6%	Growth	or Professional
treat mental disorders, learning			169	Openings/year	Degree
disabilities, behavioral, and emotional problems.					
Educational, Guidance, School,	Entry:	\$42,658	5,940	Employed	Master's, PhD
and Technical Counselors counsel	Average:	\$57,764	1.1%	Growth	or Professional
individuals and groups.			187	Openings/year	Degree
Hairdressers, Hairstylists, and	Entry:	\$20,959	16,524	Employed	Associate's
Cosmetologists cut, color, perm,	Average:	\$34,788	1.8%	Growth	Degree or
and style hair and apply makeup.			626	Openings/year	Technical
					Certificate
Interpreters and Translators	Entry:	\$31,204	1,480	Employed	Bachelor's
convert spoken or written words	Average:	\$46,139	2.0%	Growth	Degree
from one language into another.			70	Openings/year	
Laundry and Dry-Cleaning	Entry:	\$20,548	2,887	Employed	High School
<b>Workers</b> clean and press clothing.	Average:	\$25,094	0.9%	Growth	Diploma
			77	Openings/year	
Manicurists and Pedicurists clean,	Entry:	\$21,397	2,838	Employed	Associate's
shape and polish clients' nails.	Average:	\$25,508	2.0%	Growth	Degree or
			108	Openings/year	Technical
					Certificate
Marriage and Family Therapists	Entry:	\$32,035		Employed	Master's, PhD
help individuals, couples, and	Average:	\$45,680	2.5%	Growth	or Professional
families overcome emotional problems.			39	Openings/year	Degree
Mental Health Counselors help	Entry:	\$32,620	3,858	Employed	Master's, PhD
people manage a range of mental	Average:	\$46,284	1.8%	Growth	or Professional
illnesses and emotional problems.			153	Openings/year	Degree

### Career Cluster 10, Human Services

Occupational Description	Annual Wages		Outlook	Education (Most common training requirements.)
Personal Care Aides help the elderly, sick, or people with disabilities with daily living activities.	Entry: Average:	\$21,769 \$24,108	26,961 Employed 2.1% Growth 778 Openings/yea	High School Diploma r
<b>Recreation Workers</b> conduct recreation activities with groups.	Entry: Average:	\$20,647 \$29,340	5,872 Employed 0.5% Growth 122 Openings/yea	Bachelor's Degree r
Rehabilitation Counselors help people manage mental and physical disabilities and live independently.	Entry: Average:	\$29,292 \$41,124	9,998 Employed 0.6% Growth 267 Openings/yea	Bachelor's Degree r
Social and Community Service Managers plan and direct social service programs.	Entry: Average:	\$46,860 \$68,777	3,332 Employed 1.3% Growth 112 Openings/yea	Bachelor's Degree r
Substance Abuse and Behavioral Disorder Counselors advise those with alcohol, tobacco, drug, gambling, or other problems.	Entry: Average:	\$28,971 \$42,417	2,092 Employed 1.9% Growth 86 Openings/yea	Bachelor's Degree r

### **Information Technology**



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Occupational Description	Annual Wages		Outlook		Education (Most common training requirements.)
Coin, Vending, and Amusement	Entry:	\$25,749	777	Employed	High School
Machine Servicers and Repairers	Average:	\$37,006		Growth	Diploma
install and repair coin, vending, or		, ,		Openings/year	
amusement machines.				o p c	
	Entru	¢02.261	0.522	Employed	Bachelor's Degree
Computer and Information	Entry:	\$92,361		Employed Growth	bachelor's Degree
Systems Managers plan and	Average:	\$140,176			
direct in fields such as electronic			308	Openings/year	
data processing and computer					
programming.					
<b>Computer Hardware Engineers</b>	Entry:	\$78,190		Employed	Bachelor's Degree
research, design, develop, or test	Average:	\$109,337	2.6%	Growth	
computers and related equipment.			82	Openings/year	
CNC Machine Tool Programmers	Entry:	\$44,772	826	Employed	Associate's
develop programs to control	Average:	\$67,396	2.9%	Growth	Degree or
machining or processing.			42	Openings/year	Technical
and a manage of persons and a second of					Certificate
<b>Computer Operators</b> monitor and	Entry:	\$29,821	1,050	Employed	Associate's
control computer and electronic	Average:	\$43,330	2.1%	Growth	Degree or
data processing equipment.			36	Openings/year	Technical
, , , ,					Certificate
<b>Computer Programmers</b> write	Entry:	\$65,670		Employed	Bachelor's Degree
and test the instructions that	Average:	\$94,657	2.2%	Growth	
computers follow to perform tasks.			519	Openings/year	
Computer Systems Analysts	Entry:	\$65,936	13,287	Employed	Bachelor's Degree
improve existing computer	Average:	\$96,096	2.6%	Growth	
systems, and plan and develop new			609	Openings/year	
systems.					
Computer, Automated Teller,	Entry:	\$27,812	2,581	Employed	Associate's
and Office Machine Repairers	Average:	\$39,799		Growth	Degree or
fix, maintain, or install computers,		,	84	Openings/year	Technical
word processing systems, and				1 3 7	Certificate
ATMs.					
Database Administrators	Entry:	\$59,818	2 617	Employed	Bachelor's Degree
	Average:	\$89,201		Growth	Dacificioi 3 Deglee
administer, test, and implement computer databases.	, werage.	707,201		Openings/year	
	Entra	\$29,547			Associate's
<b>Desktop Publishers</b> format	Entry:	-		Employed Growth	
type and graphic elements using	Average:	\$41,143			Degree or
software to produce publication-			10	Openings/year	Technical
ready material.					Certificate

## Career Cluster 11, Information Technology

Occupational Description	Annual	l Wages	Outlook	Education (Most common training requirements.)
Multimedia Artists and Animators create special effects, animation, or other images using film, video, computers, or other electronic tools.	Entry: Average:	\$42,105 \$69,418	5,712 Employed 3.1% Growth 331 Openings/year	Bachelor's Degree
Network and Computer Systems Administrators install, configure, and support an organization's network and Internet systems.	Entry: Average:	\$55,680 \$77,434	9,935 Employed 1.9% Growth 349 Openings/year	Bachelor's Degree
Software Developers- Applications create computer applications software or utility programs.	Entry: Average:	\$72,306 \$101,525	34,263 Employed 3.2% Growth 1,488 Openings/year	Bachelor's Degree
<b>Software Developers-Systems</b> research, design, develop, and test operating systems-level software.	Entry: Average:	\$80,116 \$106,740	15,050 Employed 2.6% Growth 550 Openings/year	Bachelor's Degree

## **Career Cluster 12**

## Law, Public Safety, Corrections, & Security



Occupational Description	Annual	l Wages	(	Outlook	Education (Most common training requirements.)
<b>Bailiffs</b> enforce the rules of	Entry:	\$27,812	173	Employed	High School
conduct in courtrooms.	Average:	\$42,643	-0.3%	Growth	Diploma
				Openings/year	
Correctional Officers and Jailers	Entry:	\$40,282		Employed	Associate's
keep order and enforce rules in jails	Average:	\$47,838		Growth	Degree or
and prisons.			100	Openings/year	Technical
	Foto:	¢67.710	1 000	Francisco	Certificate
Detectives and Criminal	Entry:	\$67,718 \$91,728		Employed Growth	High School Diploma
Investigators gather facts and	Average:	391,720		Openings/year	Dipioma 
evidence for criminal cases.		Ċ=0.4.4.4			
Fire Inspectors and Investigators	Entry:	\$58,144		Employed	High School
determine the origin and causes of	Average:	\$79,117		Growth	Diploma
fires.				Openings/year	
Firefighters put out fires and	Entry:	\$35,396		Employed	High School
rescue people who are in danger.	Average:	\$63,487		Growth	Diploma
	F .	ά <b>7</b> 4 64 0		Openings/year	
First-Line Supervisors of Police	Entry:	\$71,610		Employed	Associate's
and Detectives supervise and	Average:	\$92,030		Growth	Degree or
coordinate activities of the police			/9	Openings/year	Technical Certificate
force.					
Judges, Magistrate Judges, and	Entry:	\$68,402		Employed	Master's, PhD
<b>Magistrates</b> arbitrate, adjudicate,	Average:	\$102,688		Growth	or Professional
or administer justice in a court of law.			19	Openings/year	Degree
Judicial Law Clerks research, write,	Entry:	\$43,272	309	Employed	Master's, PhD
and read legal arguments.	Average:	\$56,582	-0.1%	Growth	or Professional
3 3			4	Openings/year	Degree
<b>Lawyers</b> advise clients of their	Entry:	\$65,652		Employed	Master's, PhD
legal rights and suggest a course of	Average:	\$118,355		Growth	or Professional
action.			420	Openings/year	Degree
Lifeguards and Ski Patrollers	Entry:	\$19,876	2,181	Employed	High School
monitor recreational areas, such	Average:	\$23,550	0.8%	Growth	Diploma
as lakes and ski runs. They rescue			246	Openings/year	
people and provide first aid when needed.					
Paralegals and Legal Assistants	Entry:	\$33,935	6,825	Employed	Associate's
research and investigate facts for	Average:	\$52,437	1.8%	Growth	Degree or
lawyers.			214	Openings/year	Technical
					Certificate

## Career Cluster 12, Law, Public Safety, Corrections, & Security

Occupational Description	Annual Wages		Outlook	Education (Most common training requirements.)
Police and Sheriff's Patrol Officers maintain order and protect life and property by enforcing laws.	Entry: Average:	\$53,748 \$69,755	8,747 Employed -0.2% Growth 220 Openings/yea	High School Diploma r
Private Detectives and Investigators assist lawyers, businesses and the public with a variety of cases.	Entry: Average:	\$43,224 \$71,360		Associate's Degree or r Technical Certificate
Probation Officers and Correctional Treatment Specialists help ex-offenders adjust to community life.	Entry: Average:	\$46,649 \$54,209	2,506 Employed -0.1% Growth 49 Openings/yea	Bachelor's Degree
<b>Security Guards</b> protect property from vandalism, theft, and fire.	Entry: Average:	\$21,495 \$33,183	15,663 Employed 1.8% Growth 528 Openings/yea	High School Diploma r
<b>Transportation Security Screeners</b> conduct screening of passengers, baggage, or cargo to ensure compliance with federal regulations.	Entry: Average:	\$30,531 \$37,493	1,119 Employed 0.1% Growth 10 Openings/yea	High School Diploma r

## **Career Cluster 13**

## Manufacturing



Occupational Description	Annua	l Wages	0	utlook	Education (Most common training requirements.)
Aircraft Mechanics and Service Technicians diagnose, adjust, repair, or overhaul aircraft engines.	Entry: Average:	\$40,460 \$58,285	1.8%	Employed Growth Openings/year	Associate's Degree or Technical Certificate
Aircraft Structure, Surfaces, Rigging, and Systems Assemblers assemble, fit, fasten, and install parts of airplanes, space vehicles, or missiles.	Entry: Average:	\$36,507 \$53,336	3.7%	Employed Growth Openings/year	High School Diploma
<b>Boilermakers</b> build, install, and repair boilers, and also work on other large containers of liquids and gases.	Entry: Average:	\$38,200 \$49,331	1.9%	Employed Growth Openings/year	High School Diploma
<b>Computer-Controlled Machine Tool Operators</b> operate computer-controlled machines or robots.	Entry: Average:	\$29,508 \$45,293	3.7%	Employed Growth Openings/year	High School Diploma
<b>Dental Laboratory Technicians</b> make and repair dentures, crowns and bridges.	Entry: Average:	\$29,684 \$43,872	1.3%	Employed Growth Openings/year	High School Diploma
Electrical and Electronic Engineering Technicians design, build, repair, calibrate, and modify electrical components, circuitry, and controls.	Entry: Average:	\$44,230 \$63,182	1.9%	Employed Growth Openings/year	Associate's Degree or Technical Certificate
Extruding and Drawing Machine Setters, Operators, and Tenders operate machines to extrude or draw thermoplastic or metal materials.	Entry: Average:	\$24,565 \$37,362	1.9%	Employed Growth Openings/year	High School Diploma
Industrial Engineers develop systems to manage production processes, including human work factors, quality control, and inventory control.	Entry: Average:	\$66,313 \$89,482	2.9%	Employed Growth Openings/year	Bachelor's Degree
Industrial Production Managers plan and direct the work and resources necessary to manufacture products.	Entry: Average:	\$62,137 \$100,640	2.0%	Employed Growth Openings/year	Associate's Degree or Technical Certificate

## Career Cluster 13, Manufacturing

Occupational Description	Annual	Wages	Ou	ıtlook	Education (Most common training requirements.)
Industrial Truck and Tractor	Entry:	\$24,564	11,035 Er		High School
<b>Operators</b> use trucks or tractors	Average:	\$37,704	1.5% G		Diploma
equipped to move materials around.			482 O	penings/year	
<b>Locksmiths and Safe Repairers</b>	Entry:	\$25,643		mployed	High School
install and repair locks and safes.	Average:	\$40,899	1.5% G		Diploma
	_			penings/year	
<b>Machinists</b> use machine tools to	Entry:	\$32,033		mployed	Associate's
produce precision metal parts.	Average:	\$49,942	4.1% G		Degree or
			309 O	penings/year	Technical
AAND CALL OF THE CALL	Entry	\$50,605	1 6 1 1 Er	mployed	Certificate Associate's
Millwrights install, dismantle,	Entry: Average:	\$68,165	1,044 EI		Degree or
or move machinery and heavy	Average.	300,103		penings/year	Technical
equipment.			05 0	perinigs/ year	Certificate
Molding, Coremaking, and	Entry:	\$24,337	1,060 Er	mployed	High School
Casting Machine Setters,	Average:	\$36,134	2.4% G		Diploma
Operators, and Tenders set up,			45 O	penings/year	•
operate, or tend metal or plastic			,		
molding, casting, or core-making					
machines.					
Telecommunications Equipment	Entry:	\$38,045	4,233 Er	mployed	Associate's
Installers and Repairers fix	Average:	\$57,294	0.8% G	rowth	Degree or
telephone, cable, Internet, and			109 O	penings/year	Technical
other communications equipment.					Certificate
Welders, Cutters, Solderers, and	Entry:	\$32,754	5,693 Er	mployed	Associate's
<b>Brazers</b> use heat to permanently	Average:	\$45,933	3.3% Gı	rowth	Degree or
join pieces of metal.			363 O	penings/year	Technical
					Certificate
Wind Turbine Service Technicians	Entry:	\$44,669		mployed	Associate's
assemble, maintain, and repair	Average:	\$51,563	N/A G		Degree or
wind turbines used in energy			N/A O	penings/year	Technical
generation.					Certificate

## **Career Cluster 14**

## Marketing, Sales & Service



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Occupational Description	Annua	l Wages	(	Outlook	Education (Most common training requirements.)	
Advertising and Promotions  Managers plan and direct ads for	Entry: Average:	\$64,797 \$110,107	2.0%	Employed Growth	Bachelor's Degree	
businesses.				Openings/year		
<b>Advertising Sales Agents</b> sell air	Entry:	\$29,917		Employed	Associate's	
time on radio and TV stations. They	Average:	\$65,228		Growth	Degree or	
also sell page space in newspapers and magazines.			179	Openings/year	Vocational Certificate	
<b>Cashiers</b> ring up sales and receive	Entry:	\$20,030		Employed	On-the-Job	
payments for merchandise.	Average:	\$26,437		Growth	Training	
				Openings/year		
<b>Driver/Sales Workers</b> drive routes	Entry:	\$20,770		Employed	On-the-Job	
in an established territory and sell	Average:	\$32,222		Growth	Training	
or deliver goods.			199	Openings/year		
Fashion Designers design clothes	Entry:	\$32,891	442	Employed	Associate's	
and accessories for manufacture	Average:	\$62,868	1.5%	Growth	Degree or	
and sale.			20	Openings/year	Vocational	
					Certificate	
Floral Designers cut and arrange	Entry:	\$22,260		Employed	High School	
flowers and plants.	Average:	\$29,752		Growth	Diploma	
		+		Openings/year		
Interior Designers plan and	Entry:	\$33,299		Employed	Bachelor's Degree	
design spaces and furnish interiors.	Average:	\$51,097		Growth		
		ć 41 000		Openings/year	Dll/- D	
Market Research Analysts and	Entry:	\$41,809		Employed	Bachelor's Degree	
Marketing Specialists research	Average:	\$79,546		Growth		
market conditions to determine potential sales of products or services.			698	Openings/year		
Purchasing Agents buy	Entry:	\$46,149	8,970	Employed	Bachelor's Degree	
machinery, equipment, tools, parts,	Average:	\$69,316	1.7%	Growth		
supplies, or services.			396	Openings/year		
Real Estate Brokers oversee real	Entry:	\$31,321	1,538	Employed	Associate's	
estate transactions, rent properties	Average:	\$68,735	0.0%	Growth	Degree or	
and arrange loans.			33	Openings/year	Vocational	
					Certificate	
<b>Real Estate Sales Agents</b> help	Entry:	\$25,241		Employed	Associate's	
clients buy, sell, or lease land or	Average:	\$50,547		Growth	Degree or	
property.			144	Openings/year	Vocational	
					Certificate	

## Career Cluster 14, Marketing, Sales & Service

Occupational Description	Annua	l Wages	Outlook	Education (Most common training requirements.)
<b>Sales Managers</b> direct and coordinate the sales of goods and services for businesses.	Entry: Average:	\$71,305 \$127,666	8,044 Employed 2.2% Growth 419 Openings/year	Bachelor's Degree
Sales Representatives sell goods for wholesalers or manufacturers to businesses or groups of individuals.  Telemarketers solicit donations or orders for goods or services over	Entry: Average: Entry: Average:	\$34,666 \$67,708 \$20,851 \$25,178	31,542 Employed 2.0% Growth 1,417 Openings/year 5,807 Employed 3.0% Growth	Associate's Degree or Vocational Certificate High School Diploma
the telephone.  Wholesale and Retail Buyers purchase merchandise or	Entry: Average:	\$35,835 \$64,113	333 Openings/year 3,616 Employed 1.8% Growth	Associate's Degree or
commodities for resale to consumers at the wholesale or retail level.			163 Openings/year	Vocational Certificate

## **Career Cluster 15**





Occupational Description	Annua	Wages	(	Outlook	Education (Most common training requirements.)
Aerospace Engineers design, construct, and test parts for aircraft, spacecraft and weapons.	Entry: Average:	\$78,888 \$103,634	1.8%	Employed Growth Openings/year	Bachelor's Degree
Anthropologists and Archeologists study the origin, development, and behavior of human beings.	Entry: Average:	\$44,282 \$62,295	1.6%	Employed Growth Openings/year	Master's, PhD or Professional Degree
<b>Biological Technicians</b> assist biological and medical scientists in laboratories.	Entry: Average:	\$30,538 \$42,422	1.4%	Employed Growth Openings/year	Bachelor's Degree
<b>Biomedical Engineers</b> design new tools and devices to improve health care. They develop new ways to treat illness and disease.	Entry: Average:	\$49,099 \$85,957	4.2%	Employed Growth Openings/year	Bachelor's Degree
Chemical Engineers solve problems that involve using or making chemicals.	Entry: Average:	\$64,304 \$95,419	2.0%	Employed Growth Openings/year	Bachelor's Degree
Chemists search for new knowledge about chemicals.	Entry: Average:	\$50,485 \$78,481	1.9%	Employed Growth Openings/year	Bachelor's Degree
<b>Civil Engineers</b> plan and design roads, buildings, airports, tunnels, dams, bridges and water systems.	Entry: Average:	\$63,014 \$86,087	13,470 1.6%	Employed Growth Openings/year	Bachelor's Degree
Electrical and Electronics Engineering Technicians build, test, troubleshoot and repair electronic components.	Entry: Average:	\$44,230 \$63,182	1.9%	Employed Growth Openings/year	Associate's Degree or Technical Certificate
<b>Environmental Scientists and Specialists</b> study problems that affect the health of living things.	Entry: Average:	\$54,854 \$82,105	1.6%	Employed Growth Openings/year	Bachelor's Degree
<b>Epidemiologists</b> investigate and describe the cause and distribution of disease, disability, or health outcomes.	Entry: Average:	\$57,918 \$76,539	1.4%	Employed Growth Openings/year	Master's, PhD or Professional Degree
Forensic Science Technicians collect, identify, and analyze evidence related to criminal investigations.	Entry: Average:	\$38,159 \$55,737	-0.2%	Employed Growth Openings/year	Bachelor's Degree

## Career Cluster 15, Science, Technology, Engineering, & Mathematics

Occupational Description	Annual	l Wages		Outlook	Education (Most common training requirements.)
Geoscientists study the	Entry:	\$54,090	1.045	Employed	Bachelor's Degree
composition, structure, and other	Average:	\$85,236		Growth	bacheror 5 begree
physical aspects of the Earth.	riverager	400,200		Openings/year	
. , .	Entru	¢64.260			Pachalar's Dagras
<b>Hydrologists</b> research the	Entry:	\$64,360		Employed Growth	Bachelor's Degree
distribution, circulation, and	Average:	\$84,532			
physical properties of underground			23	Openings/year	
and surface waters.					
Marine Engineers and Naval	Entry:	\$64,975		Employed	Bachelor's Degree
<b>Architects</b> design, develop, and	Average:	\$86,637		Growth	
evaluate the operation of marine			25	Openings/year	
vessels, ship machinery, and related					
equipment.					
Materials Scientists research and	Entry:	\$50,582		Employed	Master's, PhD
study the structures and chemical	Average:	\$84,207	2.6%	Growth	or Professional
properties of natural and synthetic			25	Openings/year	Degree
or composite materials.					
Mechanical Engineers oversee the	Entry:	\$62,492	5,389	Employed	Bachelor's Degree
design, construction, and testing of	Average:	\$91,550	2.6%	Growth	
mechanical products and systems.			324	Openings/year	
Medical Scientists conduct	Entry:	\$42,912	4,725	Employed	Master's, PhD
research to find causes of and	Average:	\$77,516	2.7%	Growth	or Professional
treatments for disease.			155	Openings/year	Degree
Physicists conduct research,	Entry:	\$70,906	818	Employed	Master's, PhD
develop theories, and devise	Average:	\$113,236	2.6%	Growth	or Professional
methods to apply physical laws and			46	Openings/year	Degree
theories.					
Sociologists study human society	Entry:	\$48,854	180	Employed	Master's, PhD
and social behavior.	Average:	\$63,526	0.8%	Growth	or Professional
			6	Openings/year	Degree
<b>Statisticians</b> collect, organize, and	Entry:	\$48,903	601	Employed	Master's, PhD
interpret numerical data.	Average:	\$67,985	1.7%	Growth	or Professional
•			26	Openings/year	Degree
Surveying and Mapping	Entry:	\$38,307		Employed	Associate's
<b>Technicians</b> obtain data through	Average:	\$50,754		Growth	Degree or
surveying and mapping used			46	Openings/year	Technical
for construction, mapmaking,					Certificate
boundary location, mining, or other					
purposes.					

## **Career Cluster 16**





Occupational Description	Annual	Wages	Outlook	Education (Most common training requirements.)
Ambulance Drivers and Attendants drive ambulances or assist in transporting sick and injured people.	Entry: Average:	\$21,901 \$26,722	208 Employed 3.0% Growth 11 Openings/year	High School Diploma
<b>Automotive Body and Related Repairers</b> fix or replace damaged parts of vehicle bodies and frames.	Entry: Average:	\$27,842 \$44,329	2,832 Employed 0.2% Growth 76 Openings/year	High School Diploma
<b>Automotive Service Technicians</b> and Mechanics diagnose, adjust, and repair cars and trucks.	Entry: Average:	\$27,530 \$43,075	14,000 Employed 0.8% Growth 477 Openings/year	High School Diploma
Avionics Technicians install, inspect, and repair avionics equipment, such as radar, radio, navigation, and missile control systems.	Entry: Average:	\$49,373 \$63,262	1,240 Employed 1.9% Growth 53 Openings/year	Associate's Degree or Technical Certificate
Bus and Truck Mechanics and Diesel Engine Specialists diagnose and repair buses and trucks, or maintain and repair any type of diesel engines.	Entry: Average:	\$39,241 \$52,916	7,634 Employed 1.2% Growth 241 Openings/year	Associate's Degree or Technical Certificate
<b>Bus Drivers</b> transport people and assist passengers.	Entry: Average:	\$39,252 \$49,520	7,989 Employed 0.0% Growth 141 Openings/year	High School Diploma
<b>Commercial Pilots</b> fly planes, helicopters, and air ambulances.	Entry: Average:	\$44,945 \$82,731	1,027 Employed 1.7% Growth 56 Openings/year	Associate's Degree or Technical Certificate
<b>Dispatchers</b> schedule and dispatch workers, work crews, equipment, or service vehicles.	Entry: Average:	\$27,870 \$43,203	3,720 Employed 1.8% Growth 131 Openings/year	High School Diploma
<b>Flight Attendants</b> keep airline passengers safe and comfortable.	Entry: Average:	\$31,961 \$42,824	926 Employed 1.5% Growth 30 Openings/year	High School Diploma
Heavy and Tractor-Trailer Truck Drivers drive large trucks or tractor-trailers to transport materials.	Entry: Average:	\$31,337 \$42,840	29,655 Employed 1.8% Growth 1,119 Openings/year	High School Diploma

## Career Cluster 16, Transportation, Distribution, & Logistics

Occupational Description	Annual	Wages	(	Outlook	Education (Most common training requirements.)
Laborers and Freight, Stock, and	Entry:	\$21,386	39,929	Employed	High School
Material Movers move freight,	Average:	\$31,646		Growth	Diploma
stock, or other materials.			2,335	Openings/year	
Logisticians analyze and	Entry:	\$61,203	6,409	Employed	Bachelor's Degree
coordinate an organization's	Average:	\$84,486	2.0%	Growth	
flow of resources, functions and			250	Openings/year	
operations.					
Mobile Heavy Equipment	Entry:	\$39,352	3,293	Employed	Associate's
<b>Mechanics</b> diagnose and repair	Average:	\$55,039	1.5%	Growth	Degree or
mechanical, hydraulic, and			131	Openings/year	Technical
pneumatic equipment.					Certificate
Recreational Vehicle Service	Entry:	\$30,708	318	Employed	High School
<b>Technicians</b> diagnose and repair	Average:	\$42,193	1.6%	Growth	Diploma
recreational vehicles, including			13	Openings/year	
travel trailers					
Sailors and Marine Oilers search	Entry:	\$38,332	1,652	Employed	High School
for vessel obstructions and	Average:	\$47,579	0.7%	Growth	Diploma
measure water depth, among			74	Openings/year	
other duties.					
Ship Engineers supervise and	Entry:	\$50,404	577	Employed	Associate's
coordinate activities of crew	Average:	\$78,847	1.0%	Growth	Degree or
engaged in maintenance and			28	Openings/year	Technical
operation of ship.					Certificate
Shipping, Receiving, and Traffic	Entry:	\$24,362	13,655	Employed	High School
Clerks verify and maintain records	Average:	\$35,897	1.5%	Growth	Diploma
on incoming and outgoing			563	Openings/year	
shipments.					
Taxi Drivers and Chauffeurs	Entry:	\$20,187	5,222	Employed	On-the-Job
transport passengers to and from	Average:	\$27,225	1.8%	Growth	Training
their homes, workplaces, and			153	Openings/year	
other locations.					
Transportation Inspectors	Entry:	\$22,121		Employed	Associate's
enforce safety rules that protect	Average:	\$49,108		Growth	Degree or
people and cargo, and investigate			33	Openings/year	Technical
accidents.					Certificate
Transportation, Storage, and	Entry:	\$60,185		Employed	Bachelor's Degree
Distribution Managers direct	Average:	\$99,316		Growth	
transportation, storage, or			127	Openings/year	
distribution activities.					

## **Index of Careers**

Use this list of selected careers to explore different occupations and discover what they pay, whether they're in demand, and what education they require. Pick a career, circle the page number, and flip to that page to get the details. Need help? The chart on Page 13 explains how to use the guide. For a complete, searchable list of careers go to **CareerBridge.wa.gov**.

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Adult Basic Education and Literacy	Broadcast Technicians18	Computer Systems Analysts34
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Advertising and Promotions	Bus and Truck Mechanics and	Office Machine Repairers34
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Advertising Sales Agents40	Bus Drivers44	Tool Operators38
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Agricultural Equipment Operators . 14	Camera Operators18	Construction and Building
Agricultural Inspectors14	Cardiovascular Technologists and	Inspectors16
Aircraft Mechanics and Service	Technicians28	Construction Laborers16
Technicians38	Carpenters16	Construction Managers16
Aircraft Structure, Surfaces, Rigging,	Cashiers40	Correctional Officers and Jailers36
and Systems Assemblers 38	Chefs and Head Cooks	Counter Attendants, Concession,
Ambulance Drivers and	Chemical Engineers42	and Coffee Shop30
Attendants44	Chemists42	Court Reporters26
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Estate24	Civil Engineers42	Representatives20
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E	Forensic Science Technicians42	L
Economists26	Foresters14	Laborers and Freight, Stock, and
Editors18	G	Material Movers45
Educational, Guidance, School,	Gaming Cage Workers30	Landscape Architects
and Technical Counselors32	Gaming Supervisors30	Landscaping and Groundskeeping
Electrical and Electronics		Workers14
Engineering Technicians42	General and Operations	Laundry and Dry-Cleaning Workers . 32
Electrical Power-Line Installers	Managers	Lawyers36
and Repairers	Geoscientists	Legal Secretaries20
Electricians16	Glaziers	Legislators
Elementary School Teachers22	Government Eligibility	Librarians22
Emergency Management	Interviewers	Library Technicians22
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Emergency Medical Technicians	Н	Lifeguards and Ski Patrollers36
and Paramedics28	Hairdressers, Hairstylists, and	Loan Interviewers and Clerks24
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Specialists	Hazardous Materials Removal	Locksmiths and Safe Repairers 39
Epidemiologists42	Workers17	Lodging Managers30
Executive Secretaries and	Health Educators22	Logisticians
Administrative Assistants20	Heating, Air Conditioning, and	3
Extruding and Drawing Machine	Refrigeration Mechanics and	M
Setters, Operators, and Tenders .38	Installers	Machinists39
·	Heavy and Tractor-Trailer Truck	Maids and Housekeeping Cleaners30
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Support Workers20	Instructional Coordinators22	Medical Records and Health
First-Line Supervisors of Police and	Insulation Workers	Information Technicians29
Detectives	Insurance Sales Agents24	Medical Scientists43
Fish and Game Wardens14	Insurance Underwriters	Medical Secretaries
Fishers and Related Fishing	Interior Designers40	Meeting, Convention, and Event
Workers14	Interpreters and Translators 32	Planners21
Flight Attendants	·	Mental Health Counselors32
Floral Designers40	J-K	Middle and High School Teachers 22
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i ood oci vice ivialiagelo	Judicial Law Clerks	

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Parking Enforcement Workers26	Security Guards37	Veterinary Assistants and Laboratory
Personal Care Aides	Sheet Metal Workers	Animal Caretakers15
Pharmacists29	Ship Engineers45	Veterinary Technologists and
Pharmacy Technicians29	Shipping, Receiving Clerks	Technicians29
Photographers19	Social and Community Service	W
Physical Therapists29	Managers	Waiters and Waitresses31
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Physicists	Software Developers-Applications 35	Plant Operators27
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Police and Sheriff's Patrol Officers 37	Sound Engineering Technicians 19	Brazers39
Procedure Nail Carriers26	Statisticians	Wholesale and Retail Buyers41
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Private Detectives and	Substance Abuse and Behavioral	V V 7
Investigators	Disorder Counselors33	X,Y,Z
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Treatment Specialists37 Producers and Directors19	Surveying and Mapping	
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Property, Real Estate, and Community	Surveyors17	
Association Managers21 Psychiatric Aides29	_	
Public Relations Specialists21	Tay Evaminary and Collectors 25	
Purchasing Agents 40	Tax Examiners and Collectors25	

## **Career Steps to Take in High School**

If you're in high school or middle school, start preparing for your career today. Now is a good time to learn about jobs and career fields, and about what you like and don't like to do. The more you learn about the working world, the easier it is to know where you want to go.

#### Try on a career with Career and Technical Education

Do you like welding or carpentry? Ever thought about becoming a nurse or pharmacist? Or maybe you like working with technology or enjoy sales and marketing. There are many jobs that you can explore while you're in high school through a Career and Technical Education (CTE) class.

CTE blends academic subjects like math and writing with jobs you'd actually like to do! So while you're learning about right angles or how to write a report, you're also able to create a business plan or use a miter saw to build something. And if you like what you're learning, you can dig deeper into the subject and in some cases earn both high school and college credits. Find out more about CTE Career Clusters at www.k12.wa.us/CareerTechEd/Clusters/default.aspx.

#### CTE Career Clusters—One is right for you!

Find out which CTE classes are available at your high school or middle school. Are there classes in one of the career clusters that interest you?

#### Skills Centers: Dig deeper into the career of your choice

Whether your passion is for cooking, learning to build robots or helping people get healthy, Skills Centers offer you a place to explore those interests in-depth. With Skills Centers, you get hands-on, specialized training in areas that range from culinary arts to robotics technology to nursing. Often, you're able to earn industry certification and college credits while you're still in high school. Plus you add value to your resume, for when you are looking for a job. There are 13 Skills Centers in Washington, serving more than 100 school districts. Many students go to a Skills Center as part of their school day, immersing themselves in career-focused classes, while attending high school the rest of the time. See which Skills Center serves your school district at: www.washingtonskillscenters.org



#### **Skills Centers**

Clark County Skills Center—Vancouver (360) 604-1050

New Market Skills Center— Tumwater

(360) 570-4500

North Olympic Peninsula Skills Center—Port Angeles (360) 565-1533

Northwest Career and Technical Academy— Mount Vernon (360) 848-0706

Pierce County Skills Center—Puyallup (253) 683-5950

Puget Sound Skills Center—Burien (206) 631-7300

Sno-Isle Technical Skills Center—Everett (425) 348-2220

NEWTECH Skills Center— Spokane

(509) 354-7470

Tri-Tech Skills Center— Kennewick (509) 222-7300

Washington Network for Innovative Careers— Kirkland

(425) 739-8400

Wenatchee Valley Technical Skills Center—Wenatchee (509) 662-8827

West Sound Technical Skills Center—Bremerton (360) 473-0550

Yakima Valley Technical Skills Center—Yakima (509) 573-5500

# Step 6

## **Education and Training After High School**

Whether it's a certificate or specific training that builds on your high school experience, the education you receive *after* high school will make a big difference in securing a career that grows with you and offers opportunities for higher pay.

To earn a living wage, you need to get through high school—and get at least a certificate representing one or more years of specific learning or training after high school.

For some people, an associate's degree at a community or technical college, or private career school, paves the way to a rewarding career. For others, it's joining the military, where you learn valuable skills and see the world, or it's becoming an apprentice and joining a high-paying, hands-on trade. For still others, it's working toward a four-year liberal arts degree that expands your knowledge of the arts and world, or even a doctoral degree in medicine, dentistry, veterinary medicine or law.

The biggest question before you start down the path toward any profession is: Do you know what you want to do? Be sure you figure that out first, at the beginning of this guide, by assessing your interests and abilities, then deciding on a Career Cluster. You'll want to have an idea of what career field you're interested in, before you invest time and money in additional education and training. (Turn to pages 2-13 to complete Steps 1-4.)

#### **Washington's Community and Technical Colleges**

The state has 34 public community and technical colleges. They offer academic associate's degrees that transfer to a college or university, and certificates and degrees in career-specific areas such as health care, accounting, automotive technology and culinary arts. A growing number also offer applied bachelor's degree programs in a variety of subject areas. Chances are, there's a college near you. Go to <a href="https://www.checkoutacollege.com">www.checkoutacollege.com</a>

Learn how to fully explore your options using the guide's Career Cluster Tables on pages 14-45 or click on the searchable database at CareerBridge.wa.gov

#### **Four-Year Colleges and Universities**

Washington is home to six public four-year colleges and universities, in addition to Western Governors University, which is entirely online. Many of the four-year universities also have branch campuses in select cities. See www.wsac.wa.gov/CollegesAndUniversities

#### **Private Career Schools**

Private career schools offer career-centered training in a variety of areas—from commercial truck driving to dental assisting. Students can earn certificates or degrees. Find out more at <a href="https://www.nwcareercolleges.org">www.nwcareercolleges.org</a>

#### **Independent Colleges and Universities**

Washington's independent colleges and universities provide another option for students pursuing a four-year degree. <u>www.icwashington.org/</u>

#### **Graduate and Professional Degrees**

All of Washington's public four-year institutions, and some independent institutions, offer graduate-level courses leading to a master's degree. Typically, students must first earn a bachelor's degree before continuing with their education to earn an advanced degree in a specialized area. For example, some graduate students may earn a master's in business administration, or MBA. Others might continue their studies to earn a master's degree in English or history, or perhaps a master's in public administration or fine arts. The University of Washington and Washington State University also offer doctoral degrees (known as PhDs) in addition to professional degrees—including medicine, dentistry, veterinary medicine and law.

#### **Military Careers**

The Armed Services offer men and women the opportunity to learn self-discipline, leadership and a wide range of technical skills and specialties that also translate to civilian jobs. All of the Armed Services provide their personnel with incentives for continuing their education both while in the military, as well as after their service time.

For those choosing to attend college first, the Reserve Officer Training Corps (ROTC) scholarship provides financial assistance for tuition and fees, books, and living expenses.

Military personnel are encouraged to continue their education. Members are eligible for programs such as the Montgomery GI Bill and tuition assistance. Individual services also offer other educational incentives, such as a loan repayment program and college assistance funds.

#### **Washington National Guard Training and Benefits**

The Washington National Guard is made up of citizen soldiers who serve both the state and the nation. Most National Guard members have civilian jobs, as well as Guard careers. While serving, they are paid and receive many benefits, such as insurance, post exchange privileges, and additional training. More info at <a href="https://www.washingtonguard.org">www.washingtonguard.org</a>

#### **Job Corps Program**

Job Corps helps young people through academic programs, technical training, employment skills, health care and counseling. It is a national training and employment program administered by the U.S. Department of Labor. Youth entering the program must be at least 16 and not yet 25 years of age, a U.S. citizen or legal resident, meet income guidelines, and be in need of additional education and training. More info at <a href="https://www.jobcorps.gov/">www.jobcorps.gov/</a>

## More information on Armed Services careers:

**U.S. Army** www.goarmy.com

**U.S. Navy** www.navy.mil

**U.S. Air Force** www.airforce.com

**U.S. Marine Corps** www.marines.com

**U.S. Coast Guard** www.gocoastguard.com

Air National Guard www.ang.af.mil

Army National Guard www.nationalguard.com

#### Apprenticeships: Earn while you learn

Earn a paycheck while you learn a skilled profession in fields like construction, health care, culinary arts, and many others.

With an apprenticeship, your classroom studies are combined with paid on-the-job training supervised by a professional. Much like a college education, it takes several years to become fully trained in an occupation. However, unlike college students, apprentices earn while they learn.

Apprentices receive wages that are tied to a progressively increasing scale—so with each step you take, you're able to earn more money. Once apprentices master an occupation, they receive the same wages as a professional.

Depending on the trade you train for, your paycheck can be considerable. For example, journey-level plumbers, pipefitters, and steamfitters earned average annual wages of over \$60,000 in Washington in 2012.

Apprentices are taught by experienced journey-level workers, so there is a direct connection between what you learn in the classroom, and what you do on the job. At least 144 hours of related supplemental classroom instruction is required each year during the course of a program. Programs normally provide a minimum of 1,500 to 2,000 hours paid on-the-job training, where apprentices have a chance to practice new skills while learning the occupation.

#### Who can be an apprentice?

Entrance requirements vary by trade. In general, apprentices must:

- Be 16 years or older, though hazardous occupations require you be at least 18. Over 80 percent of apprentices are over 21.
- Have access to reliable transportation.
- Be drug free.
- Commit to one to five years of paid on-the-job training and related supplemental classroom instruction (often done on the apprentice's own time).
- Be interested in a career, not just a job.

#### What kind of work do apprentices do?

While construction and building trades are perhaps the most well-known apprenticeships, there are apprenticeships in health care, manufacturing, food preparation and public safety. Explore your options and learn more about apprenticeship at: <a href="https://www.exploreapprenticeship.wa.gov">www.exploreapprenticeship.wa.gov</a>

#### What's available in your area?

Learn all about registered apprenticeship programs through the state Department of Labor & Industries website: <a href="https://www.lni.wa.gov/tradeslicensing/apprenticeship/">www.lni.wa.gov/tradeslicensing/apprenticeship/</a>



# **Getting College Credit for What You Have Already Learned**

College credit doesn't always have to be earned in the classroom. You may possess knowledge, life skills, work experience or military training that can be translated into valuable college credit.

#### **Prior Learning Assessments**

Many colleges and universities make it possible for students to gain credit in some of their courses, without enrolling in the classes, by taking an exam that allows them to demonstrate what they know. All community and technical colleges and all four-year college and universities (public and private) have a process for assessing a student's prior learning for possible college credit. Assessments can be done through standardized tests such as the College-Level Examination Program (CLEP) and the Defense Activity for Non-Traditional Education Support (DANTES).

You also might be able to gain course credit for certifications you have earned in the past or military work experience. Some colleges and universities have created "crosswalks" between this prior learning experience and some of their courses.

#### What will it Cost?

Each college and university sets their own rate for granting Prior Learning credits based on their costs associated with the assessment. Generally, it should be less than the tuition and books associated with taking the course for credit.

#### **Learn More**

If you think you might be eligible for prior learning credit, contact the college or university of your choice and ask for the Prior Learning Assessment (PLA) point of contact.

#### **High School Credit for College Credit**

If you participated in Advanced Placement classes, Running Start, Tech Prep or a Program of Study, you may be able to get college credit for this work. Credit policies vary by institution so be sure to verify your credit before counting on it.

## **Paying for Your Education**



Just as there are many career paths, there are many ways to pay for your education and training. In some cases, it may even be free. For example, if you pursue an apprenticeship or military career your education expenses will either be covered or built into your salary, as these choices involve working and learning.

College and other types of advanced education and training can be costly. Still, it may be more affordable than you think. You may be eligible for grants and scholarships that pay for tuition, books and other supplies. Or you may qualify for low-interest loans that you pay back over time, land a work study job, or receive a tax credit that puts you on the path to earning your degree.

#### Start with the FAFSA

The Free Application for Federal Student Aid (FAFSA) is the first step in the financial aid process. Use it to apply for federal student financial aid, such as the Pell Grant, student loans, and college work-study. In addition, most states and schools use FAFSA information to award their financial aid. Regardless of your income or family's income, the FAFSA is a good way to evaluate your ability to pay for college and receive financial aid.

The U.S. Department of Education, which processes the FAFSA, encourages you to pay close attention to the FAFSA deadline. Check out <a href="https://www.fafsa.ed.gov">www.fafsa.ed.gov</a>.

Next, check with your high school guidance counselor, or financial aid administrator at your school, about state and school sources of student aid. The U.S. Department of Education also offers the following tips:

#### **Apply Early!**

State and school deadlines vary and tend to be early. Find out their exact deadline dates. The U.S. Department of Education will process your FAFSA if it is received on or before the deadline.

#### **Complete Your Tax Return!**

You (and your parents if you are a dependent student) should complete your tax return before filling out your FAFSA. This will make completing the FAFSA easier. If you have not filed your tax return yet, you can still submit your FAFSA, but you must provide correct income and tax data once you have filed.

#### **Save Time: File Electronically!**

Complete and submit your FAFSA online. It is the fastest and most accurate way to apply for student aid.

#### Grants and scholarships help you take the next step

Grants and scholarships help you pay for your education without the hassle and worry of paying them back. Some are based on need, others on academic merit, ethnic background, and other factors.

- View Washington scholarship programs at www.thewashboard.org.
- Or click the Pay for School tab on **CareerBridge.wa.gov.**

#### **Pell Grants**

The federal government offers Pell Grants and other grants you'll want to explore. You may receive about \$5,550 in Pell money for a year of school depending on your income level and other factors. www2.ed.gov/programs/fpg/index.html

Other options for Washington residents:

#### **State Need Grant**

The State Need Grant program helps the state's lowest-income undergraduate students pursue degrees, hone skills, or retrain for new careers. Students can use the grants at eligible institutions (public two- and four-year colleges and universities, and many accredited independent colleges, universities, and career schools) in Washington. Read more at <a href="https://www.wsac.wa.gov/PayingForCollege/StateAid/NeedGrant">www.wsac.wa.gov/PayingForCollege/StateAid/NeedGrant</a>

#### **Opportunity Grant**

These grants are available at Washington's 34 community and technical colleges and will help pay for up to 45 credits for students who meet income guidelines and enroll in programs of study in high-demand occupations such as health care, automotive technology, accounting, early childhood education and many others. Get details at: <a href="https://www.sbctc.ctc.edu/college/s">www.sbctc.ctc.edu/college/s</a> opportunitygrants.aspx

#### **Work Study**

The State Work Study program helps students from low- and middle-income families earn money for college while gaining experience whenever possible in jobs related to their career goals. <a href="https://www.wsac.wa.gov/PayingForCollege/StateAid/WorkStudy">www.wsac.wa.gov/PayingForCollege/StateAid/WorkStudy</a>

#### **College Bound Scholarship**

Promises tuition (at public institution rates) and a small book allowance for income-eligible students who sign up in the 7th or 8th grade, work hard in school, stay out of legal trouble, and successfully apply to a higher education institution when they graduate. Students may sign up in the 7th or 8th grade, and need only apply once. <a href="https://www.wsac.wa.gov/PreparingForCollege/CollegeBound">www.wsac.wa.gov/PreparingForCollege/CollegeBound</a>

# Get financial details with Career Bridge

The Pay for School section of **CareerBridge.wa.gov** provides info and web links on:

- · Financial aid.
- Grants and scholarships.
- Loans.
- · Work study.
- Tax credits.

## **Preparing for a Job**



Your education and work history are important in landing a job. But so is your attitude, your ability to solve problems, your attention to details and many other aspects of your personality and skills that make you a good worker. Yes, you need to have certain skills and experience, but employers also are looking for other qualities that contribute to business success, such as:

- Getting to work on time.
- Dressing appropriately.
- Being flexible.
- Learning new skills quickly.
- Working well with others.
- Setting priorities.
- Enthusiasm for the job.

It's up to you to showcase these interpersonal and workplace skills when you're at an interview. In many cases, it's these "soft skills" that will make the difference when a hiring manager decides who to call to offer a job. Ultimately, these same skills will also help ensure you keep the job and thrive in it.

#### **Finding job opportunities**

Your best resource for a new job is also your best reference—those who know you best. Talk to your friends, your family and even your neighbor across the street. You never know where your networking will lead you—and who might know about a potential job opening or have a well-positioned friend. So spread the word about your job search. If you're using social media such as Facebook or LinkedIn, you can let those in your network know you're looking. An excellent source for job openings and career assistance is WorkSource, the state's one-stop network of career centers. Check out www.go2worksource.com for a searchable listing of jobs near you.

#### Applying for the job

Before you apply for a job opening, do some research so you can craft a compelling resume and cover letter.

#### Research the company

Learn as much as you can about the company or organization that is hiring. Go online to get details on what they do, who they are, and who they're hiring. Sometimes you'll find out what a company values. Perhaps it's creativity and a culture of innovation, or maybe hard work, and long hours. You'll want to know a bit about the company and its culture before you complete your application, resume and cover letter.

#### Recipe for a winning resume

Your resume is all about you—and your education, work experience and job skills. However, it's not a laundry list of *everything* you've done. Instead, it should highlight your strengths and your accomplishments, and inform potential employers of credentials, internships, degrees and diplomas that set you apart from the competition.

A resume, in other words, needs to show employers what you can do for them. So, for example, if you've worked in a coffee shop you'll do well to focus on what you've learned besides making coffee, such as: customer service, prioritizing competing demands, thriving in a fast-paced work environment. By highlighting specific talents that are relevant to the job, your resume is telling the employer how much you value these skills.

There are many attractive ways to format your resume. However, all winning resumes are concise, accurate and tailored to the specific job. You should create a basic resume that lists all your experience and then refocus that resume to suit the job you are applying for based on the research you've done on the company and the position you seek.

Your resume should include the following sections:

- **Heading:** Your name and contact information. Do NOT include personal information such as your social security number, age or whether you are married or single.
- **Education:** List your education, starting with highest level. Also include job-related training or professional certifications you have completed. High school information isn't needed unless that is your highest level of education. If so, consider highlighting relevant courses you've taken post-high school to reflect your additional education.
- **Employment Experience:** Beginning with your most current experience, list your job history. Include the dates of employment, job title, employer's name and location and the specific duties of the job. Again, be sure your resume identifies the skills and experience you have that are important to the position you hope to land.
- Special Skills and Abilities: What makes you a particular asset as an employee?
- **Optional:** Community and volunteer service, military service and professional affiliations can be part of your resume.
- **References:** Unless specifically requested, references are not necessary for a resume. But be prepared to provide professional, academic and personal references.

#### General rules about resumes

- Be specific: Focus on what is important to the job you are seeking.
- Be honest: Do not overstate your achievements or accomplishments.
- Be concise: Keep the length to one or two pages.
- Proofread: Ask someone to check for spelling and grammatical errors.
- Use high quality paper: Show you take the job seriously and are professional.
- Create a PDF if you are emailing your resume to an employer.

Get more information in the Career Resources area of **CareerBridge.wa.gov**.

#### Cover letters create interest

Every resume you send needs an accompanying cover letter (or email) that speaks to the specific company and position you are applying for. The cover letter should make it easy for the reader to identify why your skills, abilities and experiences make this the ideal job for you. The letter should convey a positive attitude that will entice the employer to want to interview you!

- **The opening:** State the position you're applying for and how you learned about it.
- **The body:** Highlight your main qualifications, skills, abilities and how these relate to the position. You can refer to your resume, but do NOT repeat its contents.
- The closing: Demonstrates an intention to communicate in the near future, such as "I look forward to talking with you soon."

#### General cover letter guidelines

- Address the letter to a specific person rather than Dear Sir or Dear Personnel Manager. Make a phone call or go online to learn who to contact.
- Print the letter using high quality paper (if you are mailing it rather than submitting online). Keep this letter to one page.
- Use simple, direct language. Check spelling, punctuation, grammar, and sentence structure.
- Ask someone to proofread it before you send.
- Explain what makes you different from other applicants.
   Spell out how your skills, abilities and experience make you a good fit for the job.
- Keep the letter upbeat and positive. Don't complain about previous employers.
- Personally sign your letter.

#### Common interview questions

- Where did you hear about us?
- What is your background?
- What is or was your favorite subject in school? Your worst?
- Why do you want to work here?
- What do you see yourself doing in five years?
- What kind of contribution can you make to our company?
- What are your strengths...and weaknesses?
- When can you start?
- What questions do you have for us?

#### The Job Interview

Congratulations, you've scored an interview! It's normal to feel nervous before sitting down with an employer. Good preparation will make you feel more at ease.

Here are some preparation tips:

Step up your efforts to learn about your employer. While you might not be expected to know everything about your potential job, you will leave a positive impression if you exhibit knowledge about the organization and are able to ask good questions at the interview about the job.

Be ready to talk about yourself, your experiences, your strengths and your goals. You will need to be able to explain how you will make a difference to their organization.

Think about the questions you might get and practice your answers.

Be prepared to look sharp – Ensure your hair is groomed and that you are wearing appropriate clothes and shoes that are clean and in good condition.

# Get resume writing tips on Career Bridge

Go to Explore Careers on CareerBridge.wa.gov. Then click on Career Resources. This will link you to a variety of online tools—from sample resumes and cover letters, to salary information to job interview do's and don'ts.

#### Interview Do's and Don'ts

DO DON'T

Dress appropriately – Be clean and well-groomed.

Be prompt – There is no excuse for being late!

Learn the interviewer's name and use it.

Shake hands firmly.

Be enthusiastic, positive and upbeat.

Maintain good eye contact and speak clearly.

Take time to think about your answers.

Ask when you may call to learn about a hiring decision.

Thank the interviewer for his or her time.

Follow up the interview with a brief thank you note.

Take anyone with you - Go alone.

Chew gum.

Apologize for your lack of experience.

Plead for a job or say, "I'll take anything."

Discuss personal, home, or money problems.

Criticize former employers or coworkers.

Hang around after the interview.

#### **Resource Section**

#### **Assistance Available for those with a Disability**

If you have a disability that makes it difficult for you to find a job or keep one, the state's Division of Vocational Rehabilitation (DVR) can help. DVR provides employment services and counseling to individuals with disabilities who want to work but experience barriers to work because of a physical, sensory, and/or mental disability.

A DVR counselor works with each person to develop a customized plan of services designed to help them reach their employment goal. DVR assistance includes:

- Counseling and Guidance.
- Assessment Services.
- Independent Living Services.
- Assistive Technology Services.
- Training and Education.
- Job-Related Services.

In addition, vocational rehabilitation services may include:

- Training for many occupations.
- Tuition, books and equipment costs for training or starting a new job.
- Transportation expenses during a rehabilitation program.
- Living allowances during the program.
- Placement in a suitable job.
- Follow-up study of an individual's progress on the job.

For more information, contact DVR at (360) 438-8000 or 1-800-637-5627, or www.dshs.wa.gov/dvr.

#### **Veteran's Services**

If you served on active duty and were discharged or released from duty with other than a dishonorable discharge you may be eligible for priority services at your local WorkSource office. Some spouses, such as those whose military sponsor has a 100 percent disability rating from the Veterans Administration, or who died with a 100 percent rating or from a service connected disability, or whose sponsor is a MIA/POW are also eligible for priority service. For additional information go to www.esd.wa.gov/findajob/specialprograms/veterans-services.php.

For veterans struggling with making the transition into a new career a Local Veterans Employment Representative (LVER) is available to help. This program, run by the state's Employment Security Department, works with other service providers to promote veterans as job seekers with highly marketable skills and experience. LVER Staff are also located at local WorkSource one-stop career centers and conduct a variety of job search assistance workshops and provides job development and referrals for veterans.

For more information: (360) 486-5944 or <a href="www.esd.wa.gov/findajob/specialprograms/veterans-services.php">www.esd.wa.gov/findajob/specialprograms/veterans-services.php</a>.

#### **Disabled veterans**

If you are a disabled veteran you may qualify for the state's Disabled Veterans' Outreach Program, run by the Employment Security Department. Specialists provide intensive services to veterans with special employment and training needs. Staff target services to "Special Disabled" veterans (veterans with a 30 percent rated disability by the Veterans Administration), disabled veterans, economically or educationally disadvantaged veterans and veterans with other barriers to employment, especially homeless veterans.

Phone (360) 407-1359 or go to <a href="https://www.esd.wa.gov/findajob/specialprograms/veterans-services.php">www.esd.wa.gov/findajob/specialprograms/veterans-services.php</a>.

#### More information on veterans services

For general information on veterans programs contact the state's Department of Veterans Affairs at (360) 725-2200 or go to <a href="www.dva.wa.gov/index.html">www.dva.wa.gov/index.html</a>.

#### **WorkSource Centers**

Whether you need help finding a job, advice on training for a new career or assistance in writing a resume, your local WorkSource Center can help.

WorkSource is a free network of one-stop career centers that brings together business, labor, and a variety of state agencies to provide Washington residents with employment, education, and training.

Participating agencies include: the Employment Security Department, Workforce Development Councils, the state's 34 community and technical colleges, Department of Social and Health Services, Workforce Training and Education Coordinating Board, Office of Superintendent of Public Instruction, and the Governor's Office.

You can also talk to WorkSource staff to help find nonprofit, community-based organizations that meet your specific needs. For example, Community Action Councils in many counties can help with everything from utility bills to rent assistance.

For the nearest WorkSource locations, call 1-877-872-5627, or visit www.go2WorkSource.com.



## **NOTES:**

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#### A Guide To Careers And Education In Washington

Your printed companion to www.CareerBridge.wa.gov

## Here's what you'll find on CareerBridge.wa.gov

- ▶ View performance results for thousands of programs.
- ► Take a career quiz to explore your interests.
- ► See how much jobs pay in our state.
- ▶ Discover ways to fund your education.







Career Bridge is Washington's one-stop source for career and education planning.

# Know Where You're Going!



## Use this guide to figure out.

- ▶ Which career is right for you.
- ▶ What education is required.
- ▶ Where to get the training.
- ► How to pay for it.

Before you invest in your education, do your homework. Open this guide and get started on your career path today!

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**Workforce Training and Education Coordinating Board** 128 10th Avenue SW, PO Box 43105, Olympia, 98504-3105 360-709-4600 • www.wtb.wa.gov • workforce@wtb.wa.gov

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Alternative formats available upon request.