

COURSES BY CAREER CLUSTER

Course	CIP	Hours	Equivalency*
Architecture & Construction			
CAD (Computer Aided Drafting)	151302	140	None
Core Plus Construction Technology	460000	210	None
Manufacturing			
Aerospace/Advanced Manufacturing	150613	210	None
Industrial Technology	150613	210	None
Welding & Plasma Cutting Arts	480511	140	1.0 Art
Career Choices and Worksite Learning Span ALL Business Courses			
IB Personal & Professional Skills	320107	140	None
Pathways to Success	320107	210	None
Worksite Learning, Construction	468888	180	None
Worksite Learning, Precision Production	488888	180	None

* (S) denotes equivalency aligned by OSPI framework, otherwise locally determined

HIGH SCHOOL COURSES TO TAKE NOW

- | | | |
|---------------|--------------------------|----------------------|
| • Mathematics | • Drafting | • Mechanical Drawing |
| • Science | • Information Technology | • Welding |

MILITARY CAREERS

"Enlisted" roles are hands-on learning jobs students can start immediately after high school.

Career	Role	Branches	Median Salary
Construction Specialists	Enlisted	Army, Marines, Navy, Air Force, Space Force	\$ 73,056
Surveying, Mapping, and Drafting Technicians	Enlisted	Army, Marines, Navy, Air Force, Space Force	\$ 81,231
Construction Equipment Operators	Enlisted	Army, Marines, Navy, Air Force, Space Force	\$ 65,296
Plumbers and Pipefitters	Enlisted	Army, Marines, Navy, Air Force	\$ 67,104
Welders and Metal Workers	Enlisted	Army, Marines, Navy, Air Force, Space Force, Coast Guard	\$ 69,180
Precision Instrument and Equipment Repairers	Enlisted	Army, Marines, Navy, Air Force, Space Force	\$ 80,356

LABOR MARKET DATA

Occupation	SOC	Growth	Annual Salary
High School Diploma or Less, On-the-Job Training			
Carpenters	47-2031	4%	\$ 59,310
Construction and Building Inspectors	47-4011	5%	\$ 72,120
Construction Equipment Operators	47-2070	4%	\$ 58,320
Construction Laborers	47-2061	7%	\$ 46,730
Construction Helpers, Carpenters	47-3012	5%	\$ 41,600
Construction Helpers, Pipelayers, Plumbers, Pipefitters, and Steamfitters	47-3015	5%	\$ 39,270
Construction Helpers, Roofers	47-3016	6%	40,590
Drywall and Ceiling Tile Installers	47-2081	4%	\$ 58,800
Solar Photovoltaic Installers	47-2231	14%	\$ 51,860
Industrial Machinery Mechanics	49-9041	16%	\$ 63,510
Moderate-term Training, Certificate, or Associate of Applied Science			
Aerospace Engineering and Operations Technologists and Technicians	17-3021	8%	\$ 79,830
Civil Engineering Technologists and Technicians	17-3022	5%	\$ 64,200
Industrial Engineering Technologists and Technicians	17-3026	4%	\$ 64,790
Roofer	47-2181	6%	\$ 50,970
Avionics Technicians	49-2091	8%	\$ 81,390
Aircraft Mechanics and Service Technicians	49-3011	4%	\$ 78,680
Calibration Technologists and Technicians	17-3028	5%	\$ 65,040
Bachelor's, Graduate, or Experience			
Aerospace Engineers	17-2011	6%	\$ 134,830
Civil Engineers	17-2051	5%	\$ 99,590
Industrial Engineers	17-2112	8%	\$ 101,140
Materials Engineers	17-2131	13%	\$ 108,310
Mechanical Engineers	17-2141	3%	\$ 102,320
Architectural and Engineering Managers	11-9041	4%	\$ 167,740
Construction Managers	11-9021	9%	\$ 106,980
Airline Pilots, Copilots, and Flight Engineers	53-2011	8%	\$ 198,100

Citations: Bureau of Labor Statistics, U.S. Department of Labor, Occupational Outlook Handbook, <https://www.bls.gov/ooh/> (version 08.28.2025)

CareerOneStop, US Department of Labor, Employment and Training Administration, <https://www.careeronestop.org> (2026)

Employment Security Department, WA, Occupations in Demand, <https://esd.wa.gov/jobs-and-training/labor-market-information/learn-about-occupation> (11.07.2025 Labor Market Data)

EMPLOYMENT NOTES

BLS projects faster than average growth for occupations in the following areas with median wages above the median wage of \$49,500 for all occupations:

Occupation Group	Annual Openings 2024 - 2034	Median Annual Wage
Architecture & Engineering	186,500	\$ 97,310
Construction and Extraction	649,300	\$ 58,360
Installation, Maintenance, & Repair	608,100	\$ 58,230

Employment opportunities in construction, aerospace, and advanced manufacturing are expected to remain strong, particularly in regions near major aerospace employers such as Boeing, due to:

- Continued growth in aerospace innovation, including electric and hybrid aircraft, satellite systems, drones, and advanced aircraft redesign, increasing demand for skilled technicians and engineers in manufacturing, maintenance, automation, and systems integration.
- Rising demand for aircraft maintenance, repair, and operations technicians, driven by increased passenger travel, cargo transportation, and expanding commercial and space aviation sectors.
- Expansion of automation, robotics, and smart manufacturing, requiring students to develop advanced skills in mechatronics, industrial maintenance, calibration, programming, and equipment troubleshooting.
- Sustained investment in infrastructure, construction, and building modernization, increasing workforce needs for skilled trades, construction managers, civil engineers, and equipment operators.
- Growth in energy-efficient construction, renewable energy systems, and building retrofitting, driving demand for skills in sustainable design, solar installation, green construction methods, and advanced building technologies.
- Increased use of modular and prefabricated construction, shifting workforce skill needs toward digital fabrication, precision manufacturing, quality control, and advanced assembly processes.

ENTRY-LEVEL CERTIFICATIONS

Core certifications identified for jobs with no or minimal high education requirement

BLS Occupational Outlook Handbook

Certifications identified on How to Become One...

- OSHA 10-Hour Safety
- Driver's License / Commercial Driver's License

CareerOneStop Certification Finder

Core level certification recommendations for jobs requiring associate degree or less for entry include:

- [Autodesk Certified User \(ACU\)](#)
- [Tosa for Autodesk AutoCAD](#)
- NOCTI [Additive Manufacturing Essentials](#)
- NOCTI [Aerospace Engineering](#)

TOP EMPLOYMENT IMPORTANT QUALITIES

- Follow technical instructions, document processes, and clearly report problems, progress, and results to supervisors and team members.
- Take precise measurements, maintain accurate records, and ensure quality, safety, and compliance standards are met.
- Collaborate effectively with diverse teams across engineering, manufacturing, construction, and operations environments.
- Apply math for measurement, layout, analysis, design, calibration, and troubleshooting.
- Build, assemble, operate, maintain, and repair tools, machinery, and complex systems.
- Diagnose issues, evaluate system performance, and develop effective solutions in dynamic work environments.
- Interpret blueprints, schematics, technical manuals, safety procedures, and installation instructions.
- Safely handle tools, equipment, and materials while performing physically demanding tasks, often in challenging conditions.
- Follow safety protocols, industry regulations, and quality standards to protect people, equipment, and facilities.
- Support job planning, scheduling, inventory tracking, budgeting, and workflow coordination.

SOURCES

US Bureau of Labor and Statistics, Occupational Outlook Handbook (08.28.2025)

<https://www.bls.gov/ooh/>

Individual occupation details Summary, How to Become One, Pay, Job Outlook, and Similar Occupations from the following occupational groups were the most used:

- Architecture and Engineering
- Construction and Extraction

CareerOneStop (2026) | <https://www.careeronestop.org/>

Toolkit / Certification Finder

WA Employment Security Department, Occupations in Demand (11.07.2025 Labor Data)

<https://esd.wa.gov/jobs-and-training/labor-market-information/learn-about-occupation>

Occupations in Demand tool was used to search for occupations in the Greater Seattle metropolitan area to narrow careers considered for inclusion. Counties included were King, Pierce, Snohomish, Kitsap, Island, Skagit, Whatcom, and San Juan.

Today's Military (visited February 2026)

<https://www.todaysmilitary.com/careers-benefits/explore-careers>

- Building & Machinery

Citations: Bureau of Labor Statistics, U.S. Department of Labor, Occupational Outlook Handbook, <https://www.bls.gov/ooh/> (version 08.28.2025)

CareerOneStop, US Department of Labor, Employment and Training Administration, <https://www.careeronestop.org> (2026)

Employment Security Department, WA, Occupations in Demand, <https://esd.wa.gov/jobs-and-training/labor-market-information/learn-about-occupation> (11.07.2025 Labor Market Data)

COURSES BY CAREER CLUSTER

Course	CIP	Hours	Equivalency ¹
Arts, A/V Technology & Communications			
AP 2D Art & Design	500402	140	1.0 Art
AP 3D Art & Design, Ceramics	500402	140	1.0 Art
AP Drawing	500402	140	1.0 Art
Art	500402	140	1.0 Art
BC ART 110 2D Design	500402	140	1.0 Art
BC ART 111 Design Color	500402	140	1.0 Art
BC ART 112 3D Design	500402	140	1.0 Art
BC ART 120 Drawing I	500402	140	1.0 Art
Ceramics	500797	140	1.0 Art
Digital Sound Production ²	100203	140	1.0 Art
IB Visual Art HL	500499	140	1.0 Art
Journalism, Year 1	090701	210	1.5 Art
Journalism, Year 2	090701	210	1.5 Art
Journalism Communications ³	520501	210	1.0 ELA (S)
Editor Practicum	090701	210	1.5 Art
Metal Design	500713	140	1.0 Art
Photography	100201	140	1.0 Art
Video Game Design	110803	140	None
Video Production	100202	140	1.0 Art
Visual Communications	100290	140	1.0 Art
Visual Communications C: Production	100290	70	0.5 Art
Law, Public Safety, Corrections & Security – Evaluated with Health Sciences			
CERT Emergency Response	439901	70	None
Emergency Medicine	439901	140	None
Arts, A/V Technology & Communications in Middle School			
Explore Art & Design	500787	180	N/A
MS Visual Communications	100290	180	N/A
Career Choices and Worksite Learning Span ALL Business Courses.			
IB Personal & Professional Skills	320107	140	None
Pathways to Success	320107	210	None
Worksite Learning, Communication Technologies	108888	180	None
Worksite Learning, Visual and Performing Arts	508888	180	None

¹ (S) denotes equivalency aligned by OSPI framework, otherwise locally determined

² Digital Sound Production is evaluated with Business & Marketing, Information Technology

³ Journalism Communications falls under Business & Marketing, evaluated with other courses

Citations: Bureau of Labor Statistics, U.S. Department of Labor, Occupational Outlook Handbook, <https://www.bls.gov/ooh/> (version 08.28.2025)

CareerOneStop, US Department of Labor, Employment and Training Administration, <https://www.careeronestop.org> (2026)

Employment Security Department, WA, Occupations in Demand, <https://esd.wa.gov/jobs-and-training/labor-market-information/learn-about-occupation> (11.07.2025 Labor Market Data)

LABOR MARKET DATA

Occupation	SOC	Growth	Annual Salary
Short-term Training, Certificate, or Associate of Applied Science			
Audio and Video Technicians	27-4011	19%	\$ 73,160
Model Makers, Metal and Plastic	51-4061	20%	\$ 62,700
Photographers	27-4021	2%	\$ 42,520
Sound Engineering Technicians	27-4014	19%	\$ 110,950
Broadcast Technicians	27-4012	9%	\$ 56,920
Media and Communication Equipment Workers	27-4099	6%	\$ 67,190
Bachelor's, Graduate, or Experience			
Art Directors	27-1011	4%	\$ 111,040
Industrial Designers	27-1021	3%	\$ 79,450
Interior Designers	27-1025	3%	\$ 63,490
Set and Exhibit Designers	27-1027	14%	\$ 78,320
Public Relations Specialists	27-3031	20%	\$ 85,500
Writers and Authors	27-3043	21%	\$ 86,170
Graphics Designers	27-1024	18%	\$ 76,010
Commercial and Industrial Designers	27-1021	8%	\$ 106,720
Training and Development Managers	11-3131	6%	\$ 127,090
Industrial Production Managers	11-3051	2%	\$ 121,440
Librarians and Media Collections Specialists	25-4020	13%	\$ 94,400
Multimedia Artists and Animators	27-1014	2%	\$ 99,800
Media and Communication Workers	27-3099	4%	\$ 71,770
Media and Communication Equipment Workers	27-4000	3%	\$

MILITARY CAREERS

"Enlisted" roles are hands-on jobs students that can start immediately after high school.

Career	Role	Branches	Median Salary
Arts and Media Directors	Enlisted	Marines, Navy	\$ 95,340
Public Affairs Specialists & Broadcast Journalists	Enlisted	Army, Marines, Navy, Air Force, Space Force, Coast Guard	\$ 107,078
Graphic Designers & Desktop Publishers	Enlisted	Marines, Navy	\$ 119,993
Audiovisual and Broadcast Technicians	Officer	Army, Navy, Air Force	\$ 82,193
Photographers and Videographers	Officers	Marines, Navy, Air Force, Space Force	\$ 110,681

EMPLOYMENT NOTES

Although BLS reports mostly flat or declining employment in Arts and Design and Media and Communication groups, the two groups combined are anticipated to have almost 200,000 openings every year. CareerOneStop reports growth is strong in Washington in performing arts, film and video editing, web and digital design, streaming, and gaming.

Employment opportunities in production arts, digital media, and design occupations are expected to remain strong due to:

- Continued demand for creative and innovative visual communication, supporting careers in art direction, graphic design, industrial design, photography, and visual storytelling.
- Growth in digital media, animation, and visual effects, driven by expanding video game, film, television, streaming, and mobile technology industries.
- Increased investment in audio, video, and broadcast technologies, supporting employment growth for audio-visual technicians in corporate, education, healthcare, and event production settings.
- Ongoing demand for interior and spatial design services, driven by renovation, accessibility requirements, building codes, and sustainable design practices.
- Expansion of public relations, marketing, and digital content creation, as organizations rely on multimedia storytelling, social media, and online platforms to connect with audiences.
- Shifting publishing and communication models, increasing opportunities for writers, authors, and content developers across digital and self-publishing platforms.

TOP EMPLOYMENT IMPORTANT QUALITIES

- Clearly convey ideas, listen actively, collaborate with clients and teams, and translate creative concepts into actionable plans.
- Generate original ideas, artistic concepts, and solutions across visual, digital, and spatial design projects.
- Apply principles of composition, color, layout, lighting, and aesthetics to create compelling work.
- Analyze needs, troubleshoot challenges, evaluate options, and implement effective solutions.
- Use industry-standard software, digital tools, and production technologies for design, editing, and media creation.
- Maintain accuracy in measurements, editing, layout, and production quality.
- Build relationships, respond to client needs, and collaborate across disciplines.
- Balance multiple projects, manage deadlines, and maintain productivity in fast-paced environments.
- Guide creative processes, coordinate teams, and contribute positively to collaborative projects.
- Adjust to new technologies, platforms, tools, and industry trends.
- Manage projects, budgets, marketing, portfolios, client relations, and freelance work.
- Demonstrate reliability, persistence, accountability, and commitment to high-quality outcomes.

ENTRY-LEVEL CERTIFICATIONS

Core certifications identified for jobs with no or minimal high education requirement

CareerOneStop Certification Finder

Core level certification recommendations for jobs requiring associate degree or less for entry include:

Audio and Visual Technicians

- Several certification options from Avid Technology

Model Makers, Metal and Plastic

- Industry dependent certifications

Photographers

- [Adobe Certified Associate - Adobe Photoshop](#)

Digital Sound Technicians

- Several certification options from Avid Technology
- Multiple options from Society of Broadcast Engineers

Broadcast Technicians

- Several certification options from Avid Technology
- Multiple options from Society of Broadcast Engineers

SOURCES

US Bureau of Labor and Statistics, Occupational Outlook Handbook (08.28.2025)

<https://www.bls.gov/ooh/>

Individual occupation details Summary, How to Become One, Pay, Job Outlook, and Similar Occupations were the most used sections from the following Occupation Groups:

- Arts and Design
- Media and Communication

CareerOneStop (2026) | <https://www.careeronestop.org/>

Explore Careers / Career Clusters in Toolkit

- Certification Finder
- Fastest Growing Careers

Employment Security Department, Washington State

<https://esd.wa.gov/jobs-and-training/labor-market-information>

- Occupations in Demand List (11.07.2025 Labor Market Data)
- 2024 Labor Market and Economic Report (December 2024)

Today's Military (visited February 2026)

<https://www.todayismilitary.com/careers-benefits/explore-careers>

- Arts, Media & Communications

Citations: Bureau of Labor Statistics, U.S. Department of Labor, Occupational Outlook Handbook, <https://www.bls.gov/ooh/> (version 08.28.2025)

CareerOneStop, US Department of Labor, Employment and Training Administration, <https://www.careeronestop.org> (2026)

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