CENTER OF EXCELLENCE FOR HOMELAND SECURITY EMEMERGENCY MANAGEMENT

RESOURCE GUIDE

YOUR ULTIMATE RESOURCE GUIDE

WA STATE SKILLS CENTERS

Check out our various skills centers around the state

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RESOURCES

Need to find resources to help you out?

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HOMELAND SECURITY EMERGENCY MANAGEMENT | CENTER OF EXCELLENCE

www.coehsem.com

Center of Excellence for Homeland Security
Emergency Management
Pierce College
www.coehsem.com

Allied Health Center of Excellence
Yakima Valley Community College
www.yvcc.edu/coe

Center of Excellence for Aerospace and
Advanced Materials Manufacturing
Everett Community College
www.coeaerospace.com

Center of Excellence for
Careers in Education
Green River College
www.careersined.org

Agriculture Center of Excellence
Walla Walla Community College
www.agcenterofexcellence.com

Northwest Center of Excellence for Marine
Manufacturing and Technology
Skagit Valley College
www.marinecenterofexcellence.com

Construction Center of Excellence
Renton Technical College
www.constructioncenterofexcellence.com

Center of Excellence for
Information and Technology
Bellevue College
www.coeforict.org

Center of Excellence for
Global Trade and Supply Chain Management
Highline College
www.coeglobaltrade.com

Pacific Northwest Center of Excellence for
Clean Energy
Centralia College
www.cleanenergyexcellence.org

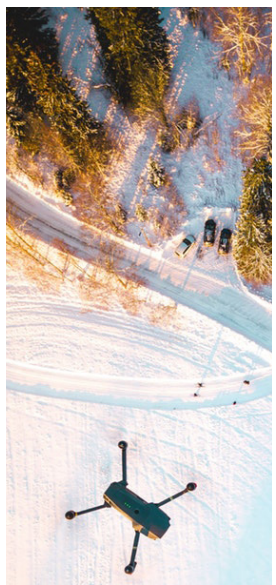
Center of Excellence for Unmanned and
Autonomous Systems
Sunnyside, WA
https://coeuas.com

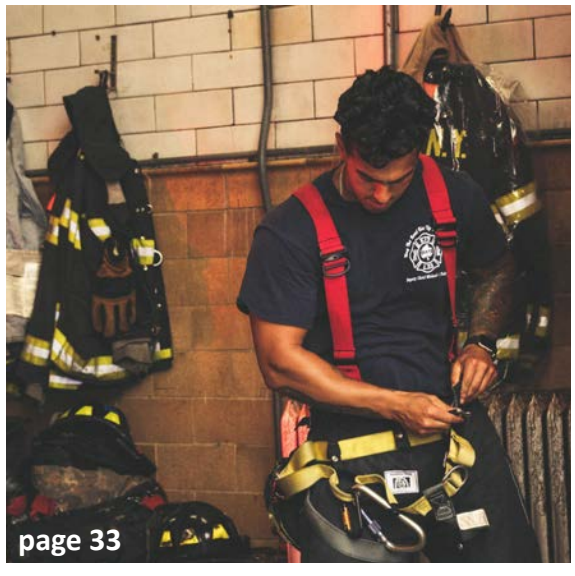
Published 2018

Washington State Centers of Excellence

Centers of Excellence are flagship institutions that provide statewide support to business, industry, labor and the state's educational systems for the purpose of creating a highly skilled and readily available workforce critical to the success of the industries driving the state's economy and support of Washington families. Each Center focuses on a targeted industry that is built upon a reputation for fast, flexible, quality education and training programs. A targeted industry is identified as one that is strategic to the exonomic growth of a region or state.

The Center of Excellence for Homeland Security Emergency Management (HSEM) helps state community and technical colleges (CTC) prepare a skilled workforce to help maintain our national security, ensure an effective response to all-hazard events through education and training initiatives, and build disaster resilience in our communities. Our goal is to provide effective leadership and coordination that rapidly responds to the interests of educational institutions and workforce training needs of the HSEM business and industry sectors across the state. We accomplish this through working with a coalition of all 34 community and technical colleges, public agencies, and private sector organizations. The Center serves as a liaison between business and industry and the CTC system faculty and administration. Public and private organizations and businesses receive technical assistance, expertise, information and research on current regional, state and national security and economic development initiatives and workforce trends.





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A map with a list of all of the community and technical colleges throughout all of Washington state.

PATHWAYS OPENER

THE FIELD OF HOMELAND SECURITY EMERGENCY MANAGEMENT (HSEM) is broad and includes many areas of work responsibilities. These six career pathways are groups of shared skills and responsibilities of occupations in this field. Each pathway addresses a different career cluster within the program area of Homeland Security Emergency Management.

PATHWAYS

Criminal Justice:
The Criminal Justice pathway includes the processes and interactions that occur between the police, courts, and correctional services.

Homeland Security Emergency Management:
The pathway of Homeland Security Emergency Management is comprimised of individuals who are ready to respond to emergency situations such as natural disasters or public health threats.

Cyber Security:
Those who pursue the Cyber Security pathway will develop and use the skills necessary to detect, document, and counter virtual security threats.

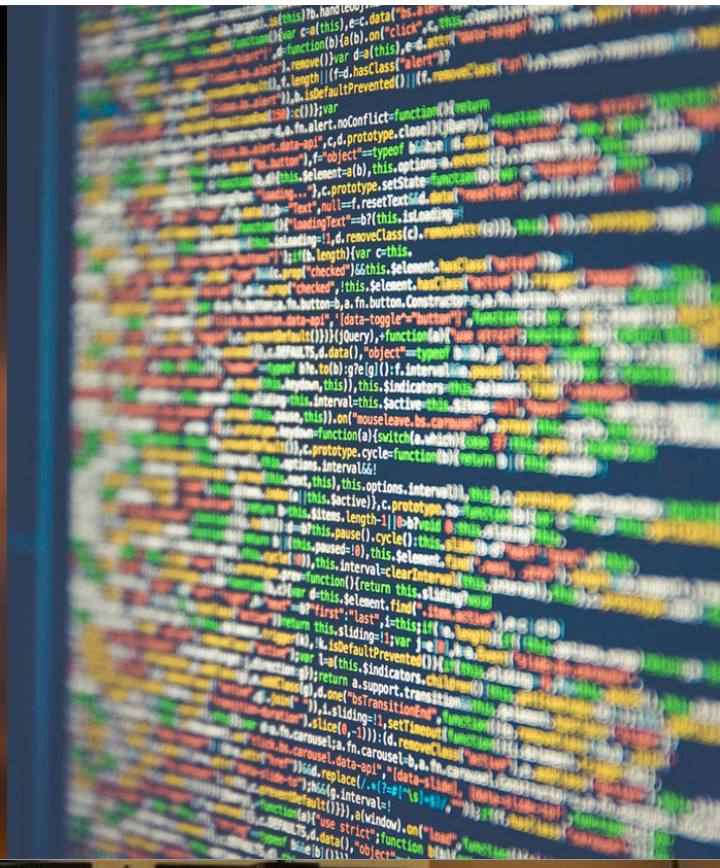
Fire Services:
The Fire Service pathway deals with things like fire protection, fire prevention planning, fire education, and emergency preparedness.

Emergency Medical and Health Services:
The pathway of Emergency Medical and Health Services deals largely with the performance of basic life-saving skills.

Occupational Safety and Health:
Occupational Safety and Health professionals work to prevent accidents and health hazards to workers, the community, and the environment.

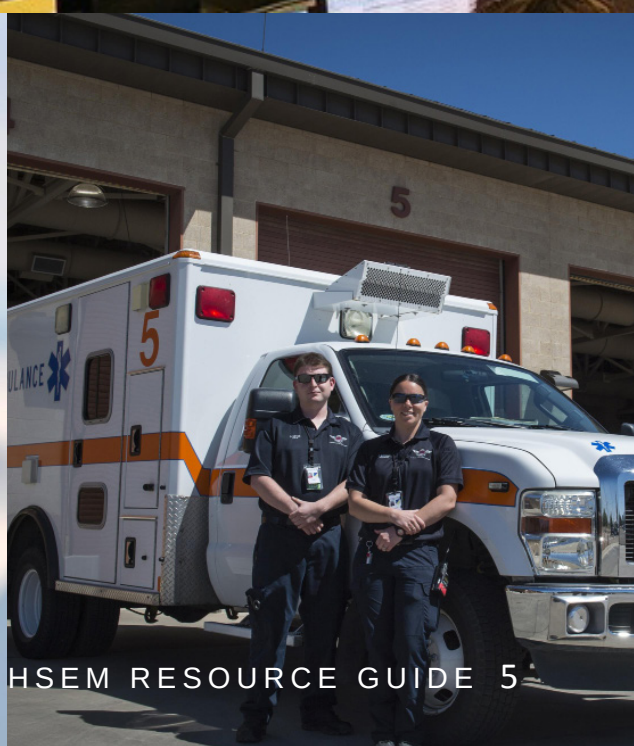
Statement of Clarification & Accuracy: The programs and degrees in this guide are offered by the community and technical colleges in Washington State. Every effort was made to ensure that this guide is complete and accurate. Despite all efforts to have an exact and comprehensive guide, it may contain inaccuracies. These errors should not negatively reflect the included programs, organizations, or individuals.
To report inaccuracies, please contact the Center of Excellence for Homeland Security Emergency Management at: http://www.coehsem.com/contact/

MHAFB
FIRE-RESCUE
CREW CHIEF



DEADLY LANDSLIDE
PIO

STEELPRO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WASHINGTON STATE SKILLS CENTERS

Skills centers are regional secondary schools that serve high school students from multiple school districts. They provide instruction in current industry preparatory programs that are either too expensive or too specialized for school districts to offer individually. Currently, there are 15 core skill centers campuses throughout the state, and 3 additional branch campuses at other sites. Students may earn high school and college credits and industry certificates for completing the 1 to 2 year programs.

ED US HERE

WA STATE SKILLS CENTERS

Cascadia Technical Academy
Vancouver, WA
www.cascadiatechnicalacademy.org

- Aviation Technology (Unmanned Aerial Vehicle Operator)
- Criminal Justice
- Homeland Security
- Fire Service
- Travel and Hotel Management
- Information Technology Systems, Service, and Support
- Legal/Medical Office Applications

Columbia Basin Technical Skills Center
(CBTECH)
Moses Lake, WA
https://cbtech.misd161.org/

- Computer Science
- Criminal Justice

NewMarket Skills Center
Tumwater, WA
http://newmarketskills.org

- Computer Hardware & Networking
- Criminal Justice

Northeast Washington Technical Skills Center
(NEWTECH)
http://newtechskillscenter.com

- Computers & Engineering
- Medical Careers
- Biomedical
- Cyber Security
- Criminal Justice
- Multimedia

Northwest Career & Technical Academy
La Conner, WA
http://www.nwtech.k12.wa.us

- Criminal Justice
- Informational Technology
- Intro Legal
- Cinema & TV Production

Pierce County Skills Center
Puyallup, WA
https://ww.bethelsd.org/Domain/4376

- Criminal Justice
- Fire Service

LEFT
Two students practicing the Fire Service program at Cascadia Technical Academy in Vancouver, WA.

RIGHT
Students in action for the Criminal Justice Training Program at the Puget Sound Skills Center in Burien, WA.

Puget Sound Skills Center
Burien, WA
http://www.highlineschools.org/Page/1887

- Criminal Justice
- Informational Technology
- Fire Service
- Translation & Interpretation

SEA-TECH Skills Center
(Southeast Area Technical Skills Center)
Walla Walla, WA
http://www.myseatech.org

- No HSEM link programs at this time

Seattle Skills Center
Seattle, WA
https://www.seattleschools.org

- Aerospace Science & Technology
- Multimedia Broadcasting
- Cisco/Information Technology
- Fire Service

Sno-Isle TECH Skills Center
Everett, WA
http://www.snoisletech.com

- Criminal Justice
- Fire Service Technology
- Electronics Engineering Technology
- Informational Technology

Tri-Tech Skills Center
Kennewick, WA
http://school.ksd.org/tritech

- Computer Science/Cyber Security 1 & 2
- Law Enforcement
- Radio Broadcasting & Production 1 & 2
- Fire Fighting/Wildfire

Washington Network for Innovative Careers Skill Center (WaNIC)
Kirkland, WA
https://wanic.lwsd.org

- Composite Engineering Design & Manufacturing
- Firefighter & EMS

Wenatchee Valley Technical Skills Center
Wenatchee, WA
http://www.wenatcheeschools.org/wvtsc/

- Computer Technology & Robotics
- Criminal Justice/Police Science
- Fire Science/Wildland Red Card

West Sound Technical Skills Center

Bremerton, WA

http://www.bremertonschools.org/wstsc

- Biomedical Research & Global Health
- Public Safety Occupations

Yakima Valley Technical Skills Center

(YV-Tech)

Yakima, WA

http://www.yvtech.us

- Business Admin/Legal Medical Office
- Industrial Robotics
- Computer Technology
- Criminal Justice
- Firefighting/Wild Land Red Card

NW Tech Academy

(Branch of NW Career & Technical Academy)

Anacortes, WA

https://www.nwtech.k12.wa.us

- Computers & Engineering
- Criminal Justice & Public Safety
- Fire Science & EMS

Spokane Valley Tech

(Branch of NEWTECH)

Spokane, WA

http://www.edlinesites.net

- Advanced Biomedical Applications
- EMT
- Advanced Engineering Applications
- AP Computer Science & APP Development
- Fire Science & Emergency Medical Services

Twin Harbor Skills Center

(Branch of NewMarket Skills Center)

Aberdeen, WA

http://www.asd5.org/thsc

- Criminal Justice
- Electrical Engineering & Refrigeration

ABOVE

Students are performing duties included in the Electrical Engineering & Refrigeration program at the Twin Harbor Skills Center in Aberdeen, WA.

DO WHAT IS
GREAT.

OCCUPATIONAL CAREER CLUSTERS

A detailed list of all of our career clusters and degree options available.

CRIMINAL JUSTICE

INDUSTRY DESCRIPTION:

THE CRIMINAL JUSTICE pathway includes the processes and interactions that occur between the police, courts, and correctional services. Whether it's the police that keep our streets and families safe, the advocates protecting the rights of victims, or the corrections officers that monitor our jails and prisons, public safety is greatly impacted by these professionals. Those who pursue this pathway will become a part of one of those three systems and enforce local, state, and federal laws within their own jurisdiction.

PROGRAM OVERVIEW:

The goal of a program in this pathway is to teach students to analyze and think critically about the practices, policies, procedures, and institutions that make up the field of Criminal Justice. Students will gain a strong understanding of the integral relationship between crime, justice, and society and will study crime prevention, law enforcement, and criminal justice ethics, the psychology of victims, and crisis de-escalation and intervention.

GRADUATES WILL DEVELOP SKILLS IN:

- Understanding criminal law in Washington State.
- Resolving conflict in a variety of situations.
- Analyzing how a case proceeds through the criminal justice system.
- Applying basic methods of police patrol, operations, and management.
- Apply basic investigative techniques for developing solutions to crime problems.
- Secure and process a crime scene, employing proper techniques of evidence gathering, searching, sketching and on-scene interviewing.

BELLEVUE COLLEGE

• Criminal Justice AAS-T
http://www.bellevuecollege.edu

BIG BEND COMMUNITY COLLEGE

• Criminal Justice AA&S-DTA, AAS
http://www.bigbend.edu

CENTRALIA COLLEGE

• Criminal Justice AA or ATA
• Crime Scene Investigation CP
http://www.centralia.edu

COLUMBIA BASIN COLLEGE

• Criminal Justice AAS
• Forensic Science AAAS
http://www.columbiabasin.edu

EVERETT COMMUNITY COLLEGE

• Criminal Justice AAS-T or AAS-DTA

• Cybercrime Investigation Cert
http://www.everettcc.edu

GRAYS HARBOR COLLEGE

• Criminal Justice AS-T, AAS-T, or CC

• Organizational Management BAS
http://www.ghc.edu

GREEN RIVER COLLEGE

• Criminal Justice AAS

• Law Enforcement CP
• Criminal Justice: Forensic Technology AAS
http://www.greenriver.edu

HIGHLINE COLLEGE

• Criminal Justice AAS

• Private Security Academy Cert

• Fraud Investigation Cert

• Maritime Security Cert
http://justice.highline.edu

LOWER COLUMBIA COLLEGE

• Criminal Justice AA-DTA, AAS, AAS-T

• Criminal Justice - Justice Administration & Corporate Security & Investigation Pathways AA-DTA
http://lowercolumbia.edu

PENINSULA COLLEGE

• Criminal Justice AAS, AAS-T, Certificate
http://pencol.edu

PIERCE COLLEGE

• Criminal Justice AA-DTA, Certificate
• Explorer/Cadet-Pre-Law Enforcement Cert
• Crime Analysis Certificate
• Criminal Justice Forensic Technician Cert
http://www.pierce.ctc.edu

SHORELINE COMMUNITY COLLEGE

• Criminal Justice AA-DTA, AAAS
• Criminal Justice - Child Advocacy Studies Short-term Certificate of Completion
http://www.shoreline.edu

SKAGIT VALLEY COLLEGE

- Criminal Justice ATA (Criminal Justice Emphasis)
- Criminal Justice ATA (Parks Service and Protection Emphasis)
- Basic Law Enforcement Reserve Academy Micro-Certificate
- Legal Principles in Policing Micro-Certificate
- Parks Law Enforcement Academy Certificate
- Private and Commercial Security Micro-Cert
- Public Safety Communications Micro-Cert
- Investgative Techniques Micro-Cert

http://www.skagitedu

SPOKANE COMMUNITY COLLEGE

- Criminal Justice AAS

http://www.scc.spokane.edu

WALLA WALLA COMMUNITY COLLEGE

- Criminal Justice AA-DTA, AAS

http://www.wwcc.edu/criminaljustice

WENATCHEE VALLEY COLLEGE

- Criminal Justice AAS-T, ATS

http://www.wvc.edu

WHATCOM COMMUNITY COLLEGE

- Criminal Justice AS (Criminal Justice Emphasis)
- Criminal Justice AS (Computer Forensics Emphasis)
- Criminal Justice Cert
- Criminal Justice - Computer Forensics AS

http://www.whatcom.ctc.edu

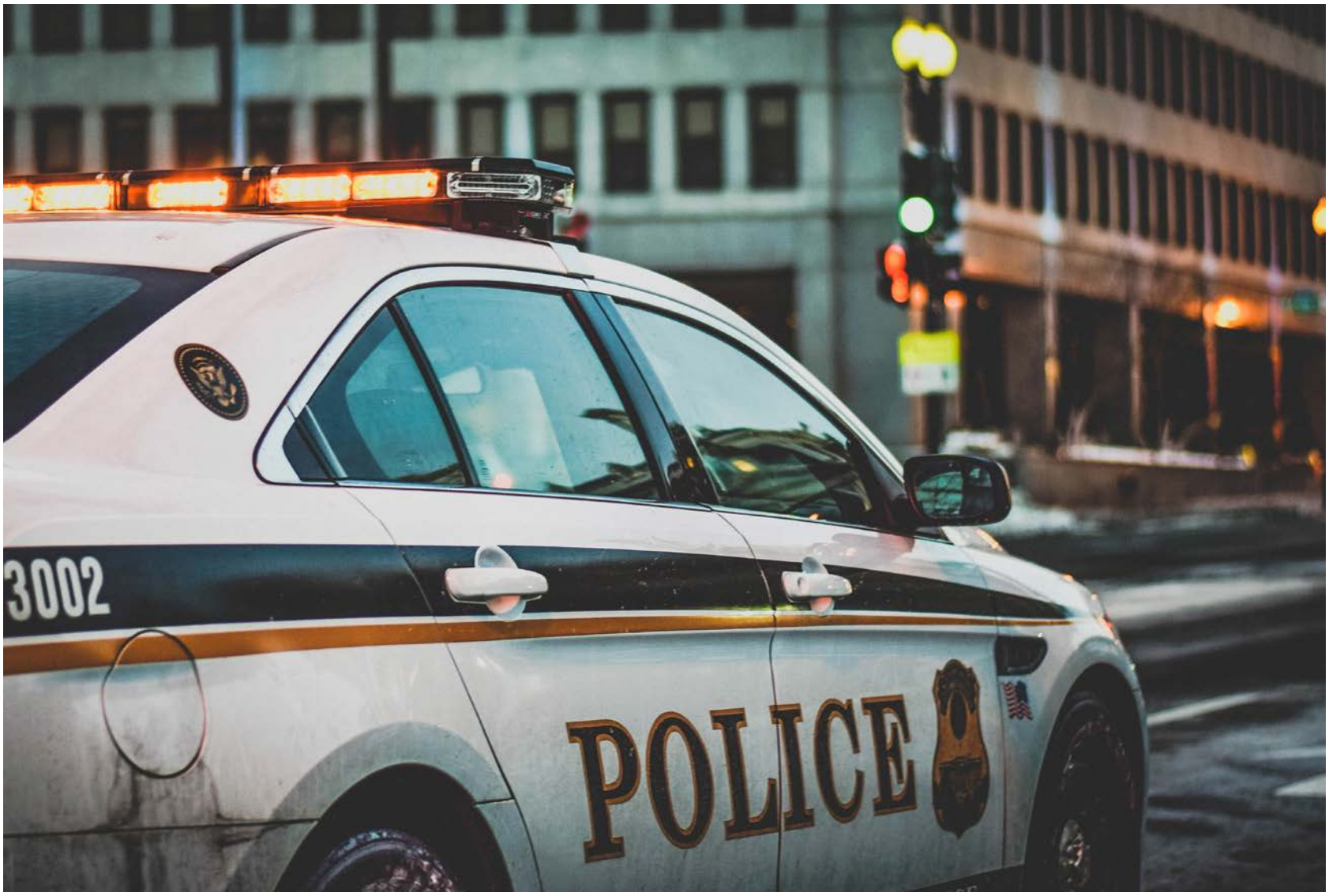
YAKIMA VALLEY COMMUNITY COLLEGE

- Criminal Justice AAS
- Communication/Call Taker Cert
- Police Clerk/Support Specialist Cert

http://www.yvcc.edu

CAREER OPPORTUNITIES:

- **Probation and Parole Officer**
- **Private Investigator**
- **Bailiff**
- **Police Officer**
- **Detective**
- **Security Guard**
- **Communication/Call Taker**



CORRECTIONS

INDUSTRY DESCRIPTION:

Graduates who concentrate in Corrections do such things as confine dangerous and aggressive individuals, prepare legal reports, search persons, subdue violent inmates, testify in court, and in some extreme cases, use deadly force. They also identify and understand correctional practices in the United States in relation to philosophies of punishment, sentencing practices, victim's rights, and institutional limitations.

PROGRAM OVERVIEW:

Programs in corrections will provide students with an understaning of the adult and juvenile criminal justice processes, its agencies and personnel. These programs will study the theory, concept and historical significance of the evolution of the criminal justice system.

GRADUATES WILL DEVELOP SKILLS IN:

- Documenting a variety of behaviors and events in a manner that is specific, clear, grammatically correct, culturally sensitive, and legally defensible.
- Applying basic methods of institutional management and rehabilitative practices.
- Applying basic theories for the causes of crime and dynamics of criminal behavior.
- Applying the laws regulating institutional conduct in a fair manner.

CAREER OPPORTUNITIES:

- **Uniform jail and prison corrections officers**
- **Prison Superintendents**

GREEN RIVER COLLEGE

- Corrections CP

http://www.greenriver.edu

PIERCE COLLEGE

- Corrections/Protection Officer Certificate
- Reserve Pre-Law Enforcement Certiificate
- Law Enforcement Officer Certificate

http://www.pierce.ctc.edu

SOUTH SEATTLE COLLEGE

- Community Corrections Program Monitor Certificate

http://www.southseattle.edu/

SPOKANE COMMUNITY COLLEGE

- Corrections AAS

http://scc.spokane.edu/

WENATCHEE VALLEY COLLEGE

- Corrections Cert

http://www.wvc.edu

YAKIMA VALLEY COMMUNITY COLLEGE

- Corrections Cert

http://www.yvcc.edu

FORENSIC PATHWAYS

GRADUATES WILL DEVELOP SKILLS IN:

- Understanding the information that they have acquired to understand the correct approach for a forensic investigation in terms of data recovery, examination, use of instruments, and analysis.
- Identifying crime scene considerations of investigators for a variety of different crime scenes.
- Employing proper and appropriate evidence collection, preservation, documentation and transport techniques of all evidence identified at the crime scene.

INDUSTRY DESCRIPTION:

FORENSICS IS CONCERNED with the recognition, identification, individualization, and evaluation of physical evidence using the methods of the natural sciences. Some of the major areas of this specialty include toxicology, odontology, trace evidence (hair, fibers, glass, etc.), ballistics, and explosives, accelerates, and fingerprint examination. Their research, examinations, and findings are used as evidence in legal cases.

PROGRAM OVERVIEW:

Programs in forensic science combine courses in investigation, evidence, criminal law and procedures, with science and math courses in chemistry, calculus, analytic geometry, and quantitative presentation, court testimony preparation, and some include training in the ne Automatic Fingerprint Identification System (AFIS).

BELLEVUE COLLEGE

• Molecular Biosciences BAS
https://www.bellevuecollege.edu/

CENTRALIA COLLEGE

• Crime Scene Investigation CP
http://www.centralia.edu

CLARK COLLEGE

• Forensic Science classes
http://www.clark.edu

COLUMBIA BASIN COLLEGE

• Forensic Science AAS
http://www.columbiabasin.edu

EDMONDS COMMUNITY COLLEGE

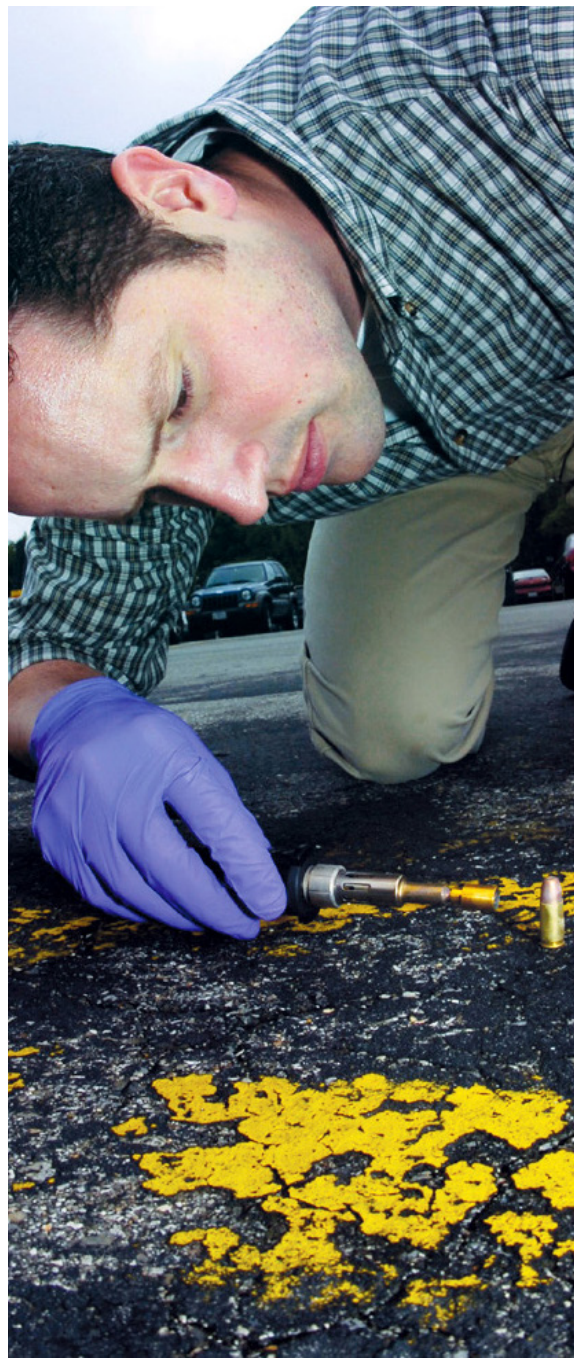
• Computer Forensics CC
• Information Security and Digital Forensics ATA
• Digital Forensics Certificate
https://www.edcc.edu/

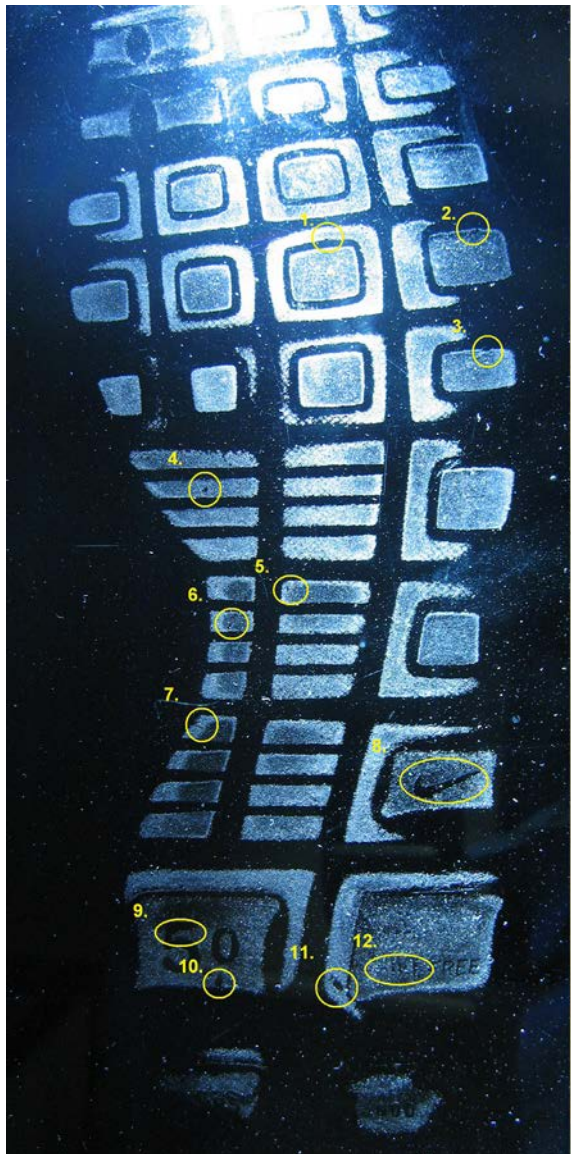
GREEN RIVER COLLEGE

• Forensic Technology AAS
• Forensic and Fingerprint Technology CP
http://www.greenriver.edu

HIGHLINE COLLEGE

• Digital Forensics & Investigation Cert, AAS
• Cybersecurity and Forensics BAS
• Digital Forensics & Protection Cert
http://www.highline.edu





LOWER COLUMBIA

• Cyber Forensic Investigation Pathway AA-DTA
http://lowercolumbia.edu

PENINSULA COLLEGE

• Cybersecurity and Computer Forensics AAS, AAS-T, Cert
http://pencol.edu/

PIERCE COLLEGE

• Forensic Technician Cert
http://www.pierce.ctc.edu

SKAGIT VALLEY COLLEGE

• Investigative Techniques Micro-Certificate
http://www.skagit.edu

SPOKANE FALLS COMMUNITY COLLEGE

• Computer Forensics/Network Security Certificate
http://sfcc.spokane.edu/

TACOMA COMMUNITY COLLEGE

• Forensic Science AS,AA
http://www.tacomacc.edu

WHATCOM COMMUNITY COLLEGE

• Criminal Justice - Computer Forensics AS
http://whatcom.edu/

YAKIMA VALLEY COMMUNITY COLLEGE

• Crime Scene Investigation Cert
http://www.yvcc.edu

CAREER OPPORTUNITIES:

- **Fingerprint Science**
- **Explosives, Ballistics, DNA**
- **Police Department Crime Scne Unit/Lab**
- **Forensic Technician**
- **Forensic Investigator**

PARALEGAL

INDUSTRY DESCRIPTION:

Through formal education, training and experience, paralegals have knowledge and expertise regarding both the legal system and substantive and procedural laws wich qualify them to do work of a legal nature under the supervision of an attorney. Paralegals work as members of legal teams in law firms, business, government, and social service organizations. They are trained to prepare legal documents, conduct research and investigations, interview clients and witnesses, prepare probate inventories, help attorneys in litigation, and organize and index documents.

PROGRAM OVERVIEW:

A program in this pathway aims to train the student in conducting legal research, developing trial notebooks and supporting trial work, preparing legal documents, summarizing depositions, writing detailed procedures for law office specialty areas, interviewing clients and performing investigative work, understaning procedures that involve decision making, and performing administrative functions.

GRADUATES WILL DEVELOP SKILLS IN:

- Understanding the basic principles of the American legal system, including the sources of law, jurisdiction, civil case procedure (including Local, State and Federal Rules), the structure of state and federal court systems, and the lawyers' role in the legal system.
- Understanding the role and responsibilities of paralegals in various specialized areas of law.
- Learn how to conduct effective factual and legal research.
- Preparing legal correspondence, memoranda, documents, exhibits, and in that content, properly interpret legal citation.
- Developing discovery plans, prepare cases for trial and capably assist in all courtroom proceedings.

BELLINGHAM TECHNICAL COLLEGE

• Legal Administrative Assistant AAS-T, AAS, Cert
http://www.btc.edu

CLARK COLLEGE

• Paralegal AAS, CP
http://www.clark.edu

EDMONDS COMMUNITY COLLEGE

• Paralegal ATA
• Paralegal - Advanced Paralegal Cert (Bachelor's degree or higher)
• Medical Paralegal Cert (for Registered Nurses)
• Legal Office Specialist ATA
http://www.edcc.edu

EVERETT COMMUNITY COLLEGE

• Business Technology ATA (Legal)
• Legal Office Assistant Cert
• Legal Office Support Cert
http://www.everettcc.edu

GREEN RIVER COLLEGE

• Legal Administrative Assistant AAA
http://www.greenriver.edu

HIGHLINE COLLEGE

• Paralegal AAS
• Paralegal Plus CERT (Bachelor's Degree required)
https://paralegal.highline.edu/

OLYMPIC COLLEGE

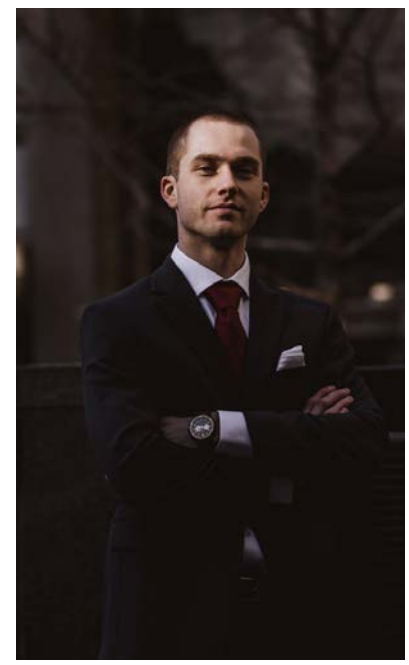
• Legal Support Professional CP
http:// www.olympic.edu

RENTON TECHNICAL COLLEGE

• Legal Assistant AAS, CC
http://rtc.edu

SOUTH PUGET SOUND COMMUNITY COLLEGE

• Office Administration-Legal Administrative Assistant AAS
• Paralegal AAS
http://www.spscc.edu



SPOKANE COMMUNITY COLLEGE

• Clerical Assistant - Legal Clerical Assistant Cert
• Legal Administration AAS
• Legal Administrative Assistant AAS, Cert
• Paralegal AAS, Cert
http://www.scc.spokane.edu

TACOMA COMMUNITY COLLEGE

• Paralegal AAS, Preferred Pro-Cert
• Limited License Legal Technician Progam
http://www.tacomacc.edu

WHATCOME COMMUNITY COLLEGE

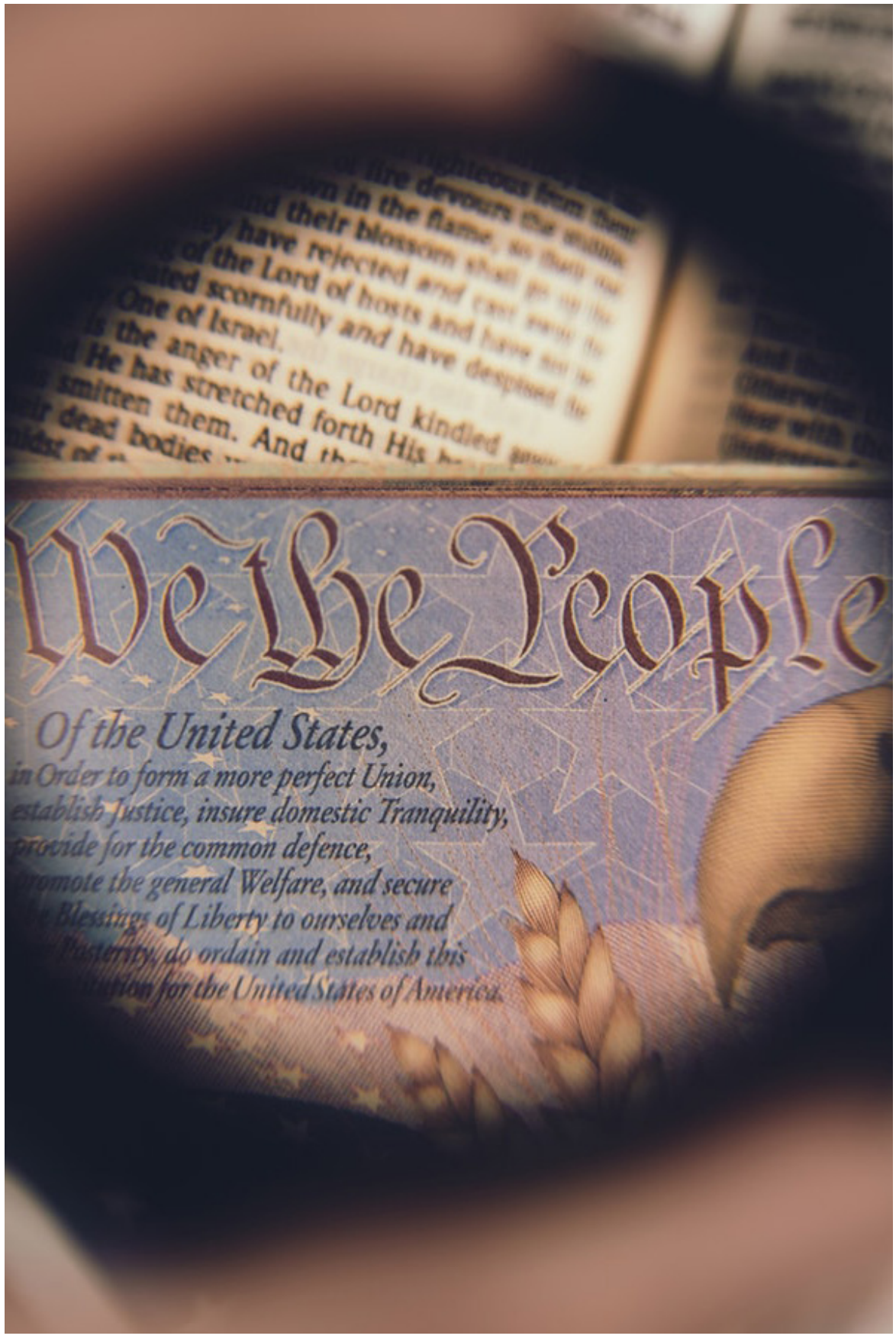
• Paralegal Studies AS, Cert
http://www.whatcom.ctc.edu

YAKIMA VALLEY COMMUNITY COLLEGE

• Business Technology Legal or Medical Office Assistant AAS, Cert
• Business Technology Legal or Medical Receptionist Cert
http://www.yvcc.edu

CAREER OPPORTUNITIES:

- **Paralegal**
- **Legal Assistant**
- **Legal Secretary**
- **Title Examiner, Abstractor, Researcher**
- **Court, Municipal & License Clerk**



PRE-LAW

INDUSTRY DESCRIPTION:

THROUGH FORMAL EDUCATION, training and experience, paralegals have knowledge and expertise regarding both the legal system and substantive and procedural laws wich qualify them to do work of a legal nature under the supervision of an attorney. Paralegals work as members of legal teams in law firms, business, government, and social service organizations. They are trained to prepare legal documents, conduct research and investigations, interview clients and witnesses, prepare probate inventories, help attorneys in litigation, and organize and index documents.

PROGRAM OVERVIEW:

A program in this pathway aims to train the student in conducting legal research, developing trial notebooks and supporting trial work, preparing legal documents, summarizing depositions, writing detailed procedures for law office specialty areas, interviewing clients and performing investigative work, understaning procedures that involve decision making, and performing administrative functions.

GRADUATES WILL DEVELOP SKILLS IN:

- Understanding the institutions that develop law.
- Ability to rear for a clear understanding of content and relationships.
- Thinking logically and think critically solving problems when given specific factual situations.
- Writing and speaking with clarity, precision, and style.

LOWER COLUMBIA COLLEGE

• Legal Administrative Assistant AAA
https://lowercolumbia.edu/

OLYMPIC COLLEGE

• Legal Support Professional CP
http:// www.olympic.edu

PIERCE COLLEGE

• Explorer/Pre-Law Enforcement Cert
• Reserve Pre-Law Enforcement Cert
https://www.pierce.ctc.edu/

SHORELINE COMMUNITY COLLEGE

• Office Administration-Legal Administrative Assistant AAS
• Paralegal AAS
https://www.shoreline.edu/

SPOKANE COMMUNITY COLLEGE

• Clerical Assistant- Legal Clerical Assistant Cert
• Legal Administration AAS
• Legal Administrative Assistant AAS, Cert
• Paralegal AAS, Cert
http://www.scc.spokane.edu

SPOKANE FALLS COMMUNITY COLLEGE

• Paralegal AAS, Preferred Pro-Cert
• Limited License Legal Technician Progam
http://sfcc.spokane.edu/

CAREER OPPORTUNITIES:

- **Administrative Law Judges, Adjudicators, and Hearing Officers**
- **Arbitrators, Mediators, and Conciliators**
- **Judge**
- **Lawyer**

CYBER SECURITY

INDUSTRY DESCRIPTION:

Those who pursue the Cyber Security pathway will develop and use the skills necessary t o detect, document, and counter virtual security threats. This will be done through the use of various programs, networks and systems to safeguard information and protect the United States' security information system.

PROGRAM OVERVIEW:

A program in this pathway prepares students for careers involving the protection of information on computers against unauthorized access or modification of information. Curriculum content includes basic and advanced computer and networking skills, computer forensics, firewall implementation, intrusion detection system implementation, layed security design and implementation, virtual security processes and procedures, and introduction to security management, planning, and recovery.

GRADUATES WILL DEVELOP SKILLS IN:

- Planning, coordinating and implementing secure networks.
- Administrative and technical strategies for mitigating and managing threats posed to information systems.
- Planning and executing an information security risk analysis and vulnerability assessment.
- Performing effective digital forensics investigations at the device and network levels.
- Understanding how to detect a network intrusion.
- Data protection and network hardening techniques.
- Digital evidence recovery.

BATES TECHNICAL COLLEGE

- Computer Networking Systems Technician AAS
- Database Technology AAS, AAS-T, COC
- Electronic and Communications System Technology AAS, COC
- Electronics Technician CoT
- Information Technology Specialist AAS

http://www.bates.ctc.edu

BELLEVUE COLLEGE

- Business Intelligence Certificates
- Information Systems AAS-T
- Information Systems and Technology BAS
- Network Services & Computing Systems AAS-T, AA, Certificates
- List of various computer/IT certificates

https://www.bellevuecollege.edu

BELLINGHAM TECHNICAL COLLEGE

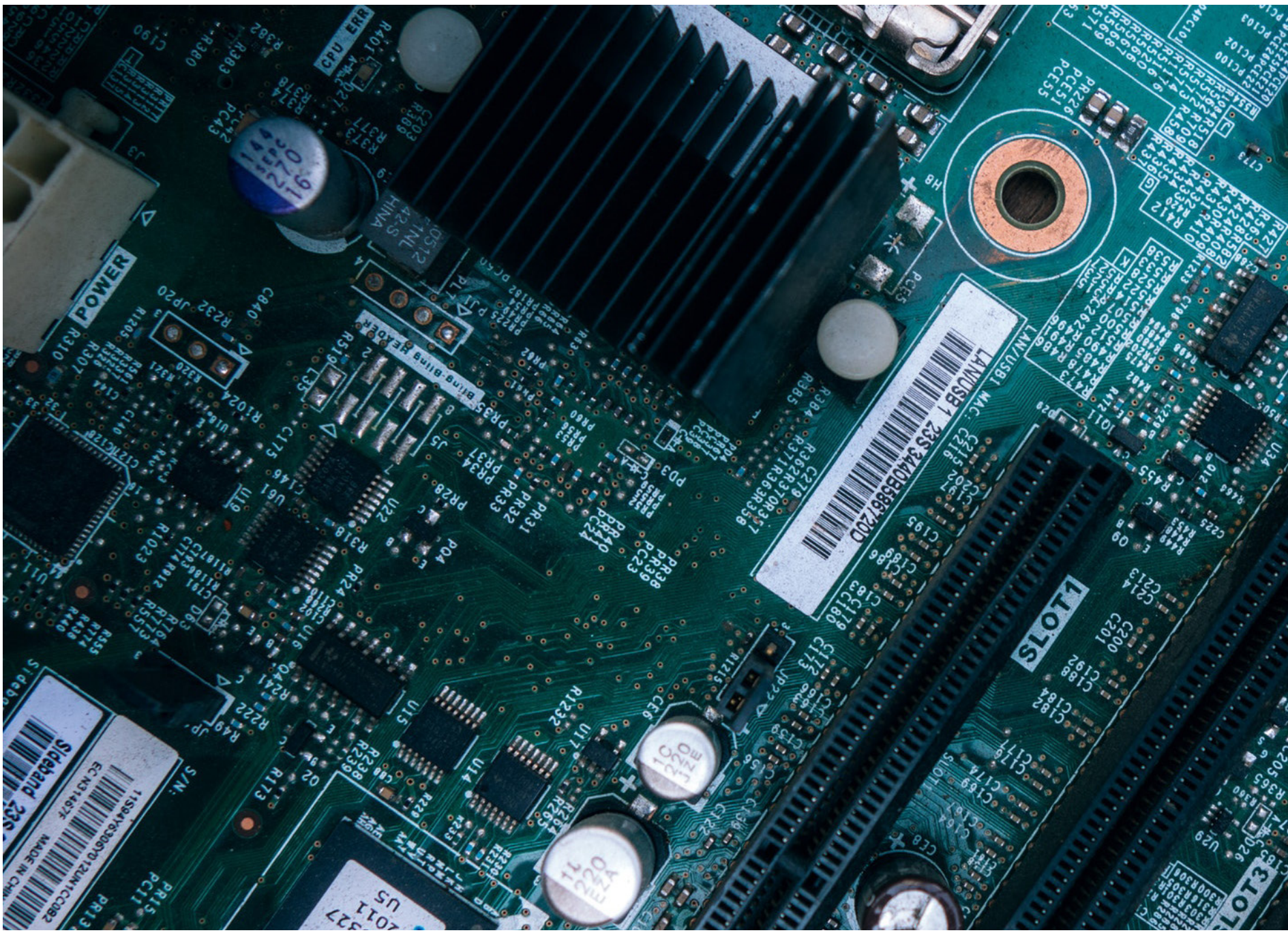
- Computer Neworking AAS, AAS-T
- Computer Nework Support Cert
- Computer Software Support AAS, AAS-T
- Associate in Computer Science DTA
- Health Information Technology Cert
- Computer Application Specialist Cert
- List of various computer/IT certificates

http://www.btc.edu

BATES TECHNICAL COLLEGE

- Computer Science AAS, AAS-T, AAS-DTA, AS-T
- Systems Administration AAS, AAS-T
- List of various computer/IT certificates

https://batestech.edu/



CASCADIA COLLEGE

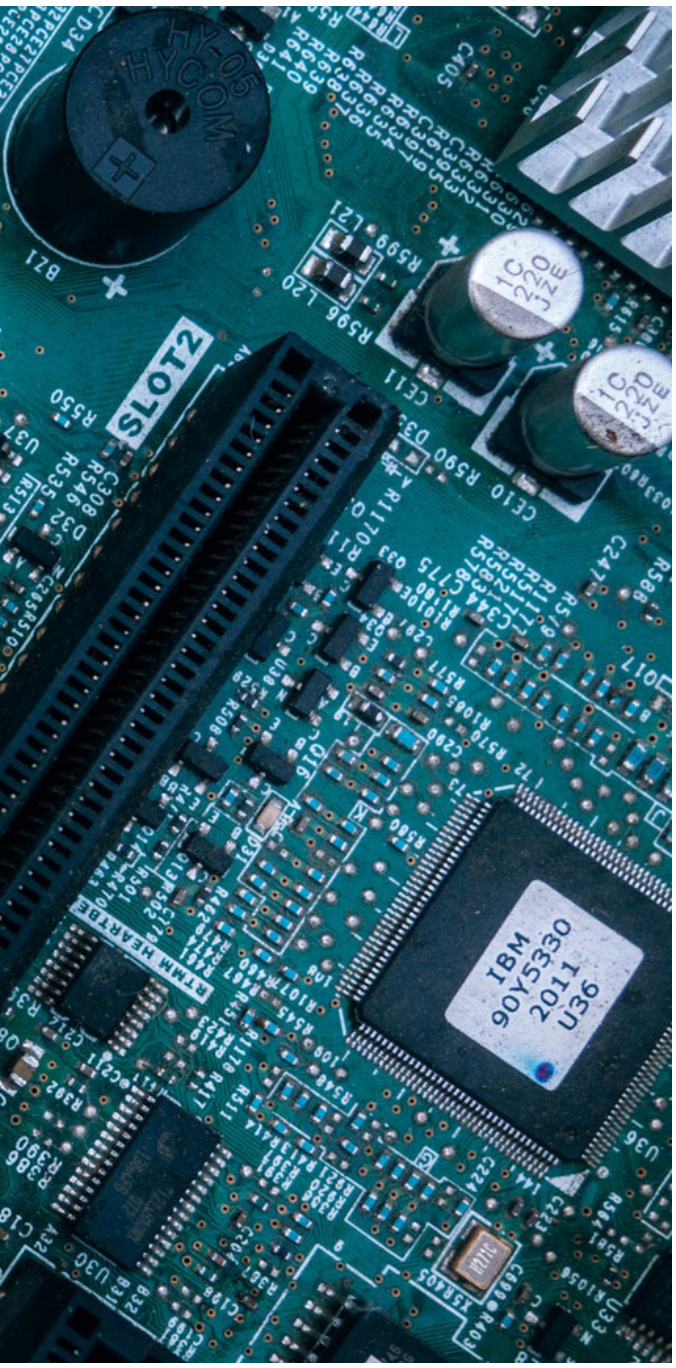
- Networking Infrastructure Technology AAS-T
- Security Support Technician Cert
- Web Application Programming Technology(Web Emphasis)- AAS-T
- Web Application Programming Technology (Programming Emphasis)- AAS-T
- Web Emphasis
- List of various computer/IT certificates

http://www.cascadia.edu

CENTRALIA COLLEGE

- Business Intelligence Certificates
- Information Systems AAS-T
- Information Systems and Technology BAS
- Network Services & Computing Systems AAS-T, AA, Certificates
- List of various computer/IT certificates

http://www.centralia.edu



CLARK COLLEGE

- Computer Support Specialist AAS, CP
- Network Technology AAT
- List of various computer/IT certificates

http://www.clark.edu

CLOVER PARK TECHNICAL COLLEGE

- Advanced Cyber Incident Responder Cert
- Cisco Network Design & Security Cert
- Computer & Communications Security Cert
- Computer Networking and Information Systems Security AAT, AAS-T, or Professional Cert
- Server Administrator Cert

http://www.cptc.edu

COLUMBIA BASIN COLLEGE

- Computer Database Management Cert or One-Year Cert
- Computer and Information Technology Cert
- Cyber Security BAS, AAS, Cert
- Database Administrator AAS
- Information Technology AAS, BAS
- Network Administrator AAS
- Network and Security Cert or One-Year Cert
- Computer Science AS-T
- List of various computer/IT certificates

http://www.columbiabasin.edu

EDMONDS COMMUNITY COLLEGE

- Cyber Defense and Digital Forensics ATA
- Cyber Security Specialist Cert
- Computer Forensics CC
- Computer Information Systems ATA
- Computer Information Systems - Intro to Network Security Cert
- Digital Forensics Cert
- Host System Security CC
- Certified Ethical Hacker CC
- Information Security and Digital Forensics ATA
- Information Security CC
- Introduction to Network Security CC
- Network Technology ATA
- Security Implementation CC
- Server Administrator CC
- Linux Security Specialist Cert
- Network Security Cert
- List of various computer/IT certificates

http://catalog.edcc.edu

EVERETT COMMUNITY COLLEGE

- Computer Science AAS-DTA
- Computer Support Specialist Cert
- Cybercrime Investigation Cert
- Cyber Security Analyst Cert
- Cyber Security Support Technician Cert
- Information Technology AAS-T, ATA
- Network Administrator Cert
- Networking Specialist Cert
- Systems Administrator Cert

http://www.everettcc.edu

GREEN RIVER COLLEGE

- IT Advanced Network Administration and Security CP
- IT Fundamentals CP
- IT Network Administration and Security BAS
- IT Software Development BAS
- IT Systems and Security AAS-T

http://www.greenriver.edu

HIGHLINE COLLEGE

- Computer Science AA-DTA, AS-T
- Cyber Security and Forensics BAS
- Data Recovery/Forensic Specialist AAS
- Digital Forensics and Investigations AAS, Cert
- Digital Forensics and Protection Cert
- Information Systems Project Coordinator, Computer Forensics Specialization AAS
- Information Systems Project Coordinator, Database Design/Development Specialization AAS
- Information Systems Project Coordinator, Networking Specialization AAS
- Networking Administration and Security BAS
- Network Security Engineer AAS
- List of various computer/IT certificates

https://cis.highline.edu

LAKE WASHINGTON INSTITUTE OF TECHNOLOGY

- Computer Science AA-DTA/MRP
- Computer Security & Network Technician AAS, AAS-T
- Network Support Technician CP
- Information Technology Computing and Software Development BAS, AAS, AAS-T
- Photonics Technology CP
- List of various computer/IT certificates

http://www.lwtech.edu

NORTH SEATTLE COLLEGE

- Application Development BAS
- IT Controlled Electronics AAS, Cert
- Network Infastructure & Security Specialist + IT Basics AAS
- Network & Server Administration AAS, Cert
- List of various computer/IT certificates

http://resources.northseattle.edu

OLYMPIC COLLEGE

- Computer and Information Systems Security BAS IS, CR
- Computer Information Systems Specialist AAS-T
- Computer Science AA
- Cyber Security CC
- List of various computer/IT certificates

https://www.olympic.edu

PENINSULA COLLEGE

- Cyber Security and Computer Forensics AAS, AAS-T or Short-Term Cert
- Computer Applications Technology AAS, AAS-T, Cert
- Information Technology - Systems Administrator AAS, AAS-T
- Information Tech. Security Specialist Cert

http://pencol.edu

PIERCE COLLEGE

- Computer Network Engineering AA-DTA
- Computer Systems Administration Cert
- Database Management and Design AA-DTA
- Health Informatics and Integrated Technology
- Healthcare Database Management and Design Cert

http://www.pierce.ctc.edu

RENTON TECHNICAL COLLEGE

- Computer Network Technology AAS, AAS-T, CC
- Computer Science AAS, AAS-T, CC

https://rtc.edu

SEATTLE CENTRAL COLLEGE

- Network Design & Administration BAS, AAS-T or Short Cert
- Information Technology - Networking BAS, AAS-T
- Database Administration & Development Cert

http://www.seattlecentral.edu

SHORELINE COMMUNITY COLLEGE

- Computer Science and Software Systems AA-T, AA-DTA

https://www.shoreline.edu

SKAGIT VALLEY COLLEGE

• Computer Information Systems AAS, Cert
• List of various computer/IT certificates
http://www.skagit.edu

SOUTH PUGET SOUND COMMUNITY COLLEGE

• Cyber Security and Network Administration AAS (additionally: Network I CP is awarded for completion of degree)
• Computer Support AAS, CP
• Database Management AAS
• Computer Science AS-T
• List of various computer/IT certificates
http://www.spcc.edu

SOUTH SEATTLE COLLEGE

• Computer Science AS-T2
• Network Administration AAS, AAS-T
https://www.southseattle.edu

SPOKANE COMMUNITY COLLEGE

• Network Design and Administration AAS, Cert
• Certified Associate in Health Information & Management Systems Cert
• List of various computer/IT certificates
http://www.scc.spokane.edu

SPOKANE FALLS COMMUNITY COLLEGE

• Cyber Security BAS
• Computer Forensics/Network Security Cert
http://sfcc.spokane.edu/

TACOMA COMMUNITY COLLEGE

• Computer Science AS
• Network and Cyber Security AAS, Cert
• Electronic-Health Information Management (e-HIM) Cert
• Network Support Cert
• Database Management Cert
http://www.tacomacc.edu

WALLA WALLA COMMUNITY COLLEGE

• Computer Science AS-T2
• Networking AAAS, Cert
http://www.wwcc.edu

WENATCHEE VALLEY COLLEGE

• Computer Technology ATS
• List of various computer/IT certificates
http://www.wvc.edu

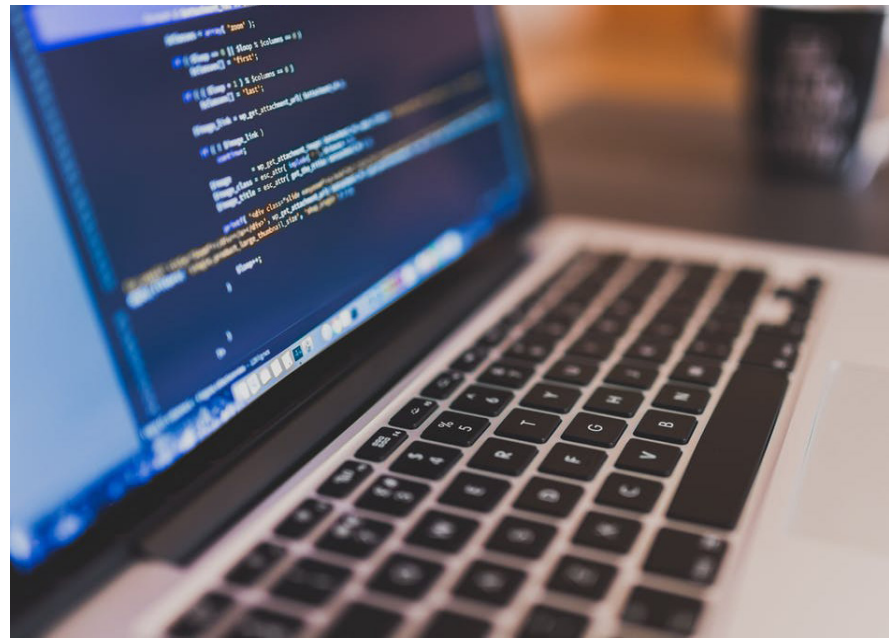
WHATCOM COMMUNITY COLLEGE

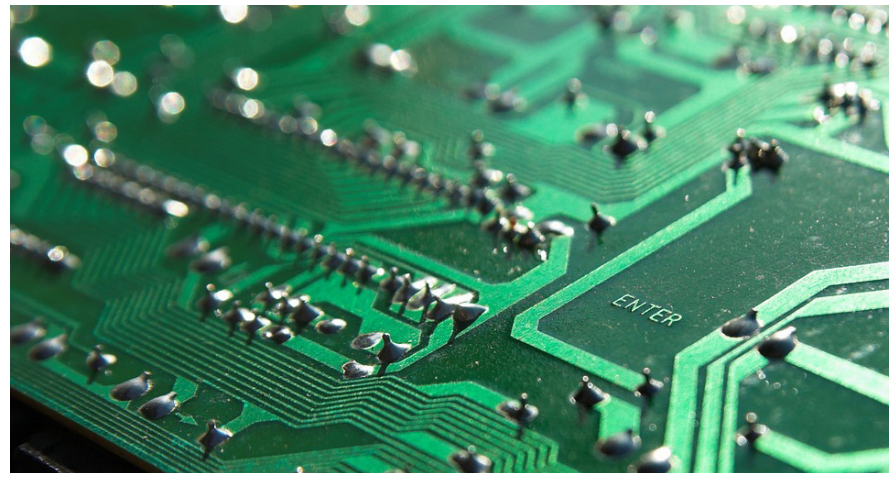
• IT Networking BAS
• Computer Information Systems AS
• Computer Information Systems - Network Administration
• Criminal Justice - Computer Forensics AS
• Cyber Security AAS-T
• Information Security Professional CP
• List of various computer/IT certificates
http://www.whatcom.ctc.edu

YAKIMA VALLEY COMMUNITY COLLEGE

• Information Technology Networking - System Administration BAS
• IT Networking Administrator AAS
• IT Support Specialist AAS
• IT General AAS, Cert
http://www.yvcc.edu

CAREER OPPORTUNITIES:
• **Network Security Administrator**
• **Information Security Administrator**
• **Computer Forensic Analyst**
• **Digital Forensics Specialist**
• **Information Security Analyst**





EMERGENCY MEDICAL & HEALTH SERVICES

INDUSTRY DESCRIPTION:

The pathway of Emergency Medical and Health Services deals largely with the performance of basic life-saving skills which include: control of bleeding, stabilizing fractures, providing oxygen and other necessities to avoid the development or progression of shock, as well as transportation to the emergency room.

PROGRAM OVERVIEW:

A program in this pathway will provide lectures and hands-on practice and techniques in the areas of emergency care, bleeding and shock, soft tissue injuries, environmental emergencies, lifting and moving patients, cardiac arrest management, and more.

GRADUATES WILL DEVELOP SKILLS IN:

- Applying knowledge of anatomy and physiology to patient assessment and management in order to assure a patent airway, adequate mechanical ventilation, and respiration for patients of all ages.
- Applying scene information and patient assessment findings to guide emergency management.
- Evaluation patients and all emergency treatement procedures short of those rendered by physicians.
- Assessing and recognizing illness or injury related to medical and traumatic causes.
- Providing basic life suppor as well as advanced life support measures to treat illness or injury.

BATES TECHNICAL COLLEGE

• Emergency Medical Technician-Basic (EMT-B) Cert
http://www.bates.ctc.edu

BELLINGHAM TECHNICAL COLLEGE

• Emergency Medical Technician Cert
http://www.btc.edu

BIG BEND TECHNICAL COLLEGE

• Medical Simulation AAS-T
http://www.bigbend.edu

CENTRALIA COLLEGE

• Emergency Medical Technician Cert
http://www.centralia.edu/

CLARK COLLEGE

• Emergency Medical Technician-Basic CC
• Health Information Assistant CP
http://www.clark.edu

COLUMBIA BASIN COLLEGE

• Advanced EMT Short-Term Cert
• EMT-Basic Short-Term Cert
• Paramedicine AAS
• Paramedic Cert
http://www.columbiabasin.edu

EDMONDS COMMUNITY COLLEGE

• Certified Medical Administrative Assistant CC
https://www.edcc.edu/

EVERETT COMMUNITY COLLEGE

• Emergency Medical Technician-Basic (EMT-B) Cert
http://www.everettcc.edu/

HIGHLINE COLLEGE

• Emergency Medical Technician Cert
• Community Health & Wellness-Global and Public Health AAS
https://www.highline.edu/

LAKE WASHINGTON INSTITUTE OF TECHNOLOGY

• Medical Simulation AAS-T
https://www.lwtech.edu/

NORTH SEATTLE COLLEGE

• Emergency Medical Technician-Basic CC
https://www.northseattle.edu/

PENINSULA COLLEGE

• Emergency Medical Technician - Basic Short Term Profeciency Cert
http://pencol.edu

PIERCE COLLEGE

• Emergency Medical Services AT
• Emergency Medical Services Cert
• Emergency Medical Technician Basic Cert
• Social Services/Mental Health Cert, AA
http://www.pierce.ctc.edu

SEATTLE CENTRAL COLLEGE

• Community Health and Education BAS
• Global Health AA, AB, AS
http://www.seattlecentral.edu

SHORELINE COMMUNITY COLLEGE

- Health Informatics & Information Management AAAS
- Environmental Health AS-T
- Public & Community Health AA-T, AA-DTA

http://www.shoreline.edu

SOUTH PUGET SOUND COMMUNITY COLLEGE

- Fire & Emergency Services Technology AAS

https://spscc.edu/

SPOKANE COMMUNITY COLLEGE

- Emergency Medical Technician-Basic Cert

http://www.scc.spokane.edu

TACOMA COMMUNITY COLLEGE

- Emergency Medical and Health Services AAS
- Emergency Medical Technician-Basic Cert
- Paramedic Cert

http://www.tacomacc.edu

WALLA WALLA COMMUNITY COLLEGE

- Emergency Medical Technician Cert

http://www.wwcc.edu

CAREER OPPORTUNITIES:

- **Emergency Medical Technician**
- **Police, Fire, and Ambulance Dispatcher**
- **Emergency Room Technician**

FIRE SERVICES

INDUSTRY DESCRIPTION:

Fire service professionals face a diverse and complex environment. Things like fire protection, fire prevention planning, fire education, emergency preparedness, coordination, resource economics, and many other issues need to be addressed and managed on a daily basis. The duties of the firefighter include extinguishing and controlling fires, performing rescue and evacuation work incidental to fire control, and aiding in response to accidents, natural disasters, and other incidents where human lives are threatened.

PROGRAM OVERVIEW:

A program in the Fire Science pathway will teach a student how to respond to emergencies and save lives, identify, stabilize and mitigate emergency situations, reduce loss of property and improve public safety. Instruction generally includes fire suppression, fire investigation, fire prevention, emergency and rescue systems, emergency response, officer training and coordination with other agencies.

GRADUATES WILL DEVELOP SKILLS IN:

- Developing logical and critical thinking strategies to evaluate/prevent fires, hazards, other emergencies and deploy resources in emergency operations
- Emergency rescue training
- Organizing fire ground operations
- Use the Incident Command System to manage a wide variety of planned and unplanned incidents.
- Demonstrate and appropriately use fire service equipment and procedures in conjunction with a variety of emergency response incidents
- Utilize fire service leadership techniques to regulate personnel management, control discipline, train staff, perform strategic planning, and coordinate emergency or non-emergency activities.
- Utilize the principles and practices involved with planning, preventing and managing terrorist and natural disasters.

BATES TECHNICAL COLLEGE

- Fire Service AAS, AAS-T
- Fire Service Supervision AAS, CoT
- Fire Recruit Academy
- Fire Command & Administration AAS
- List of various Certificates

http://www.bates.ctc.edu

BIG BEND COMMUNITY COLLEGE

- Aircraft Rescue Fire Fighter CC
- Initial Aircraft Rescure Fire Fighter Program (ARFF) CC
- FAA Mandated Recurrent Live Fire Training CC
- ARFF Officer Development Class
- ARFF Crash Truck Operator Training

http://www.bigbend.edu

CLOVER PARK TECHNICAL COLLEGE

- Electrician Low Voltage Fire/Security AAT Degree, Cert

http://www.catalog.cptc.edu

COLUMBIA BASIN COLLEGE

- Fire Science AAS

http://www.columbiabasin.edu

EDMONDS COMMUNITY COLLEGE

- Fire Officer AAS-T, Cert

http://www.edcc.edu

EVERETT COMMUNITY COLLEGE

- Fire Science AAS-T, ATA
- Fire Academy CERT
- Certificates IFSAC, FFI, Haz-Mat Awareness & Operations

http://www.everettcc.edu

GREEN RIVER COLLEGE

- Natural Resources - Wildland Fire AAS

https://www.greenriver.edu/

PIERCE COLLEGE

- Fire Command and Administration AAS

http:// www.pierce.ctc.edu

SKAGIT VALLEY COLLEGE

- Fire Protection Technology AAS
- Fire Service Administration AAS-T

http://www.skagit.edu

SOUTH PUGET SOUND COMMUNITY COLLEGE

- Fire and Emergency Services Technology AAS
    - Certificates earned during degree:
        - NFPA 1001, Firefighter I
        - NFPA 1001, Firefighter II
        - NFPA Hazardous Materials Operations
        - NFPA 1002, Driver/Operator
        - NFPA 1670 Awareness Level in trench rescue, confined space, and structural collapse
        - NFPA 1670 Technician Level in rope rescue
        - NWCGS Wildland Firefighter II
        - Emergency Medical Technician - Basic

http://www.spscc.edu

SPOKANE COMMUNITY COLLEGE

- Fire Officer AAS, Cert
- Fire Science Technology AAS

https://www.scc.spokane.edu/

WALLA WALLA COMMUNITY COLLEGE

- Fire Science AAAS, Cert

http:// www.wwcc.edu

WENATCHEE VALLEY COLLEGE

- Fire Science ATS

http://www.wvc.edu

CAREER OPPORTUNITIES:

- **Firefighter**
- **Fire Prevention and Protection Engineer**
- **Rescue Worker**
- **Fire Systems Technician**
- **Leadership Position in Fire Control**
- **Fire Investigator**

HOMELAND SECURITY EMERGENCY MANAGEMENT

INDUSTRY DESCRIPTION:

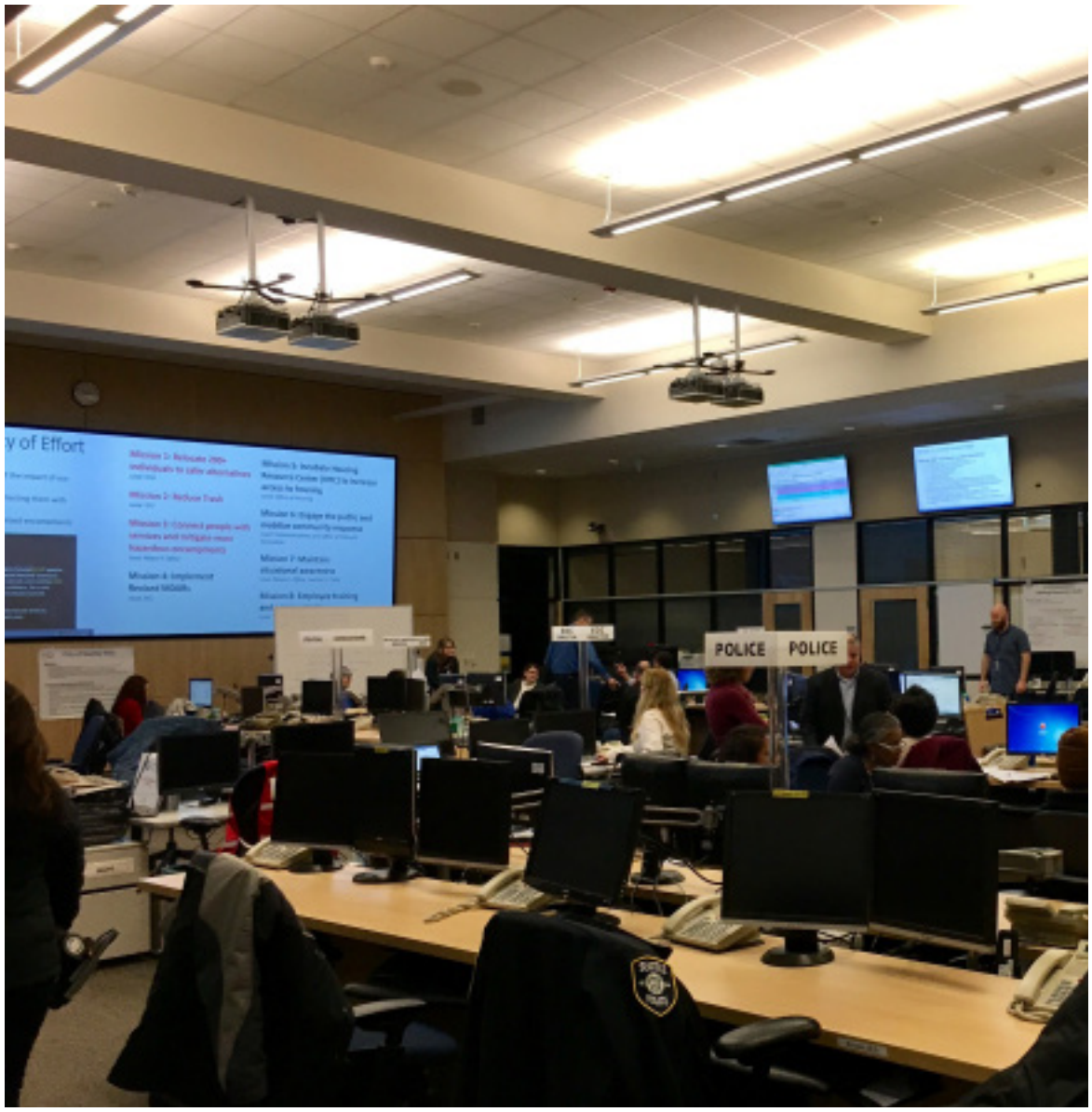
The pathway of Homeland Security Emergency Management is comprised of individuals who are ready to respond to a natural disaster, public health threat, wartime, technological disaster, hostage situation or other emergency situation. They do so by coordinating disaster response or crisis management activities, providing disaster preparedness training, and preparing emergency plans and procedures.

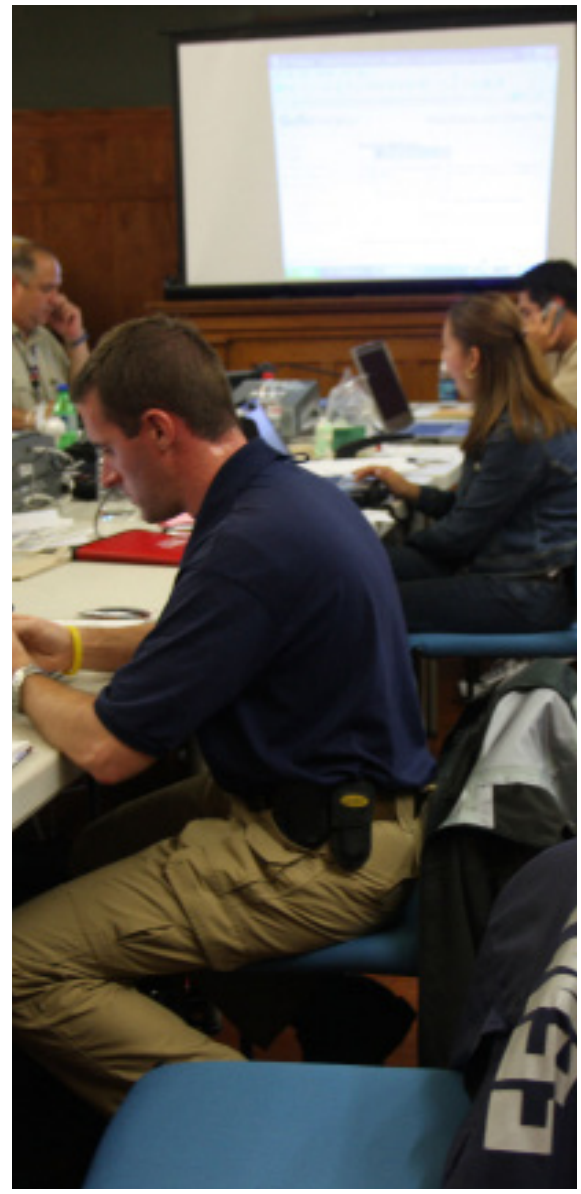
PROGRAM OVERVIEW:

Programs are designed to prepare the next generation of emergency management and policy leaders with the knowledge and skills they need to improve outcomes in disasters of all types. The programs incorporate instruction in policy as well as planning and operational components of emergency management and homeland security. The curriculum provides policy foundations and advances students through core competencies in hazard identification as well as teaches them fundamentals in regards to risk and vulnerability assessment, terrorism, mitigation, preparedness, response and recovery, and planning for diverse populations.

GRADUATES WILL DEVELOP SKILLS IN:

- Understanding and analyzing the different phases in Emergency Management: Prevention, Mitigation, Preparedness, Response, and Recovery.
- Knowing how to integrate, coordinate, and collaborate with communities, agencies, and emergency management teams in order to facilitate crisis prevention, emergency management, continuity of operations, and problem solving.
- Providing expertise on critical guidelines, regulations, and systems utilized in the different phases of emergency management.
- Developing policies, procedures and protocols to allow seamless agency integration from prevention to incident response scenarios.
- Applying a solid foundation of knowledge and skills to assume leadership roles in emergency management, homeland security, and/or public policy.





BIG BEND COMMUNITY COLLEGE

- Homeland Security Emergency Management AAAS-T, CA
- Agricultural GPS/Guidance Systems CA
- Unmanned Aerial Systems (UAS) Mechatronics
- Unmanned Aerial Systems (UAS) Sensor Analyst
- Unmanned Aerial Systems (UAS) Flight Operations

http://www.bigbend.edu

BELLINGHAM TECHNICAL COLLEGE

- Geomatics Engineering Technology (GIS) AAS

http://www.btc.edu

CASCADIA COLLEGE

- Homeland Security Emergency Management AAS-T, Cert
- Sustainable Practices BAS

http://www.cascadia.edu

CLARK COLLEGE

- Survey & Geomatics (GIS) AAS, CP

http://www.clark.edu

COLUMBIA BASIN COLLEGE

- Agricultural Food Systems

https://www.columbiabasin.edu/

EDMONDS COMMUNITY COLLEGE

- Emergency Management and Business Continuity AAS-T, Cert

http:// www.edcc.edu

GREEN RIVER COLLEGE

- Airport Management AAS
- Airport and Air Transportation Management CP
- Unmanned Aerial Systems (UAS) AAS, CP
- Natural Resource in Forest Management BAS, AAS, A-PP
- Natural Resources - Park Management AAS
- Natural Resources - Water Quality AAS
- Geographic Information Systems AAS
- Wastewater Technology AAS
- Water Distribution Technology CP
- Water Supply Technology AAS
- Municipal Wastewater Treatment Technology CP

http://www.greenriver.edu

HIGHLINE COLLEGE

- Homeland Security Emergency Management AAS
- Introduction to Homeland Security Cert
- Global Trade and Logistics BAS
- International Business and Trade AAS, Cert
- Nonprofit Management Short-Cert

http://www.highline.edu

LAKE WASHINGTON INSTITUTE OF TECHNOLOGY

- Transportation, Logistics, and Supply Chain Management BAS

http://www.lwtech.edu

OLYMPIC COLLEGE

- Homeland Security Emergency Management AAS-T, CC

http://www.olympic.edu

PENINSULA COLLEGE

- Homeland Security Emergency Management AAS

http://pencol.edu

PIERCE COLLEGE

- Homeland Security Emergency Management AA,BAS, AT-DTA, Cert

http://www.pierce.ctc.edu

SEATTLE CENTRAL COLLEGE

- Global Studies AA, AB, AS

http://www.seattlecentral.edu

SHORELINE COMMUNITY COLLEGE

- Environmental Studies AS-T
- International Studies AA-DTA, Cert
- Purchasing and Supply Chain Management AAAS, CP, CC
- Sustainable Purchasing Supply Chain Management CC
- Purchasing and Contract Management CC
- Supplier Relations and Logistics CC

https://www.shoreline.edu/

SKAGIT VALLEY COLLEGE

- Homeland Security Emergency Management Cert, AAS
- Geographic Information Systems Certificate, MC

http://www.skagit.edu

SPOKANE COMMUNITY COLLEGE

- Natural Resource Management (Forestry) AAS
- Natural Resources Technologies in Geographic Information Systems Cert
- Parks and Recreation AAS
- Wildlife and Fisheries AAS
- Water and Wastewater AAS
- Water Resources Technology AAS
- Water Resources Technologies in Geographic Information Systems Cert

http://www.scc.spokane.edu

TACOMA COMMUNITY COLLEGE

- Business & Logistics (Global Logistics Concentration) Cert
- Business & Logistics (Global Transportation and Secure Logistics) Cert

http://www.tacomacc.edu

WALLA WALLA COMMUNITY COLLEGE

- Precision Agriculture AAAS, Cert
- Natural Resources Technology & Management AAAS
- Watershed Ecology AAAS, Cert

http://www.wwcc.edu

WENATCHEE VALLEY COLLEGE

- Outdoor Recreation Management AAS-T

http://www.wvc.edu

WHATCOM COMMUNITY COLLEGE

- Sustainable Business Leadership CP

http://www.whatcom.edu

CAREER OPPORTUNITIES:

- **Risk Management Specialist**
- **Crisis Response Manager**
- **Disaster Recovery Specialist**
- **Hazard Mitigation Officer**
- **Emergency Management/Preparedness Director**
- **Homeland Security Coordinator**

OCCUPATIONAL SAFETY & HEALTH

INDUSTRY DESCRIPTION:

Occupational Safety and Health professionals work to prevent accidents and health hazards to workers, the community, and the environment. They are responsible for the compliance with state and federal regulations regarding workplace safety. They collect data on safety and health conditions, monitor and measure hazards, and make recommendations that help prevent harm to workers, property, the environment, and the general public. They also respond to emergency preparedness and homeland security issues.

PROGRAM OVERVIEW:

A program in this pathway provides education and training for a career in the safety field and prepares students to become experts on national and state workplace safety and health standards. Core curriculum includes courses in safety and accident prevention, safety management, regulatory environment, worker's compensation and risk management, incident investigation, industrial security, and the handling of hazardous materials.

GRADUATES WILL DEVELOP SKILLS IN:

- Identification of risks and hazards in a variety of occupational settings.
- Understanding the history and evolution of terrorism including specific hazardous threats: chemical, biological, radiological, nuclear and explosive/energetic (CBRNE).
- Developing and implementing site-specific health and safety plans that include emergency response elements.
- Develop emergency response plans that can be used to prevent and/or mitigate incidents and accidents, assist organizational members after such incidents, and promote corrective action to prevent similar incidents in the future.

BATES TECHNICAL COLLEGE

• Occupational Therapy Assistant AAS
https://batestech.edu/

COLUMBIA BASIN COLLEGE

• OSHA - 10 Safety Training CC
• Industrial Health and Safety AAS
https://www.columbiabasin.edu/

EDMONDS COMMUNITY COLLEGE

• Occupational Safety and Health Technician AAS-T
• Construction Safety Technician Cert
• Safety Inspection CC
http://www.edcc.edu

GREEN RIVER COLLEGE

• Occupational Therapy Assistant AAS
https://www.greenriver.edu/

PIERCE COLLEGE

• Occupational Safety and Health AAS-T
• Construction Safety Cert
http://www.pierce.ctc.edu

SHORELINE COMMUNITY COLLEGE

• Environmental Health AS-T
http://www.shoreline.edu

SPOKANE FALLS COMMUNITY COLLEGE

• Occupational Therapy Assistant AAS
http://sfcc.spokane.edu/

CAREER OPPORTUNITIES:

- **Hazardous Materials Remover Worker**
- **Safety Coordinator**
- **Safety Inspector**
- **Safety Manager**
- **Occupational Health and Safety Specialist**
- **Occupational Health and Safety Technician**

UNMANNED & AUTONOMOUS SYSTEMS

INDUSTRY DESCRIPTION:

The Unmanned and Autonomous Systems pathway includes the process and interactions without or with close interactions with people. Due to the growing use of UAS and sensor technology in such areas as agriculture, law enforcement, firefighting, search and rescue operations, wildlife, forestry, and supply chain security, there is great demand for UAS related degrees and certifications. The field of autonomous machines and service robotics is expanding daily as the Internet of Things apps grow.

PROGRAM OVERVIEW:

A program in this pathway will provide lectures and hands-on practice and techniques in the area of machine operations, basic programming applied to interfacing of machine with people, and security of operations. Emergency management and security of robotics in business require understanding of safety and government regulations for operations in legal and ethical applications.

GRADUATES WILL DEVELOP SKILLS IN:

- Mechatronics, sensor technologies, system trouble shooting, programming, data collection and management.
- Flight operations and mission planning, analysis of data and information using global positioning systems.
- Technical knowledge and hands-on skills, installation, fabrication, testing, maintatin/repair computers, electronic systems, and robotic systems.
- Programming microcontroller based robots to perform navigation using various sensor inputs with feedback and controll techniques.
- Work effectively as a team member and coordinate the activities with upstream and downstream operations.

BATES TECHNICAL COLLEGE

- Industrial Electronics & Robotic Technician Cert

http://www.bates.ctc.edu

BIG BEND COMMUNITY COLLEGE

- Medical Simulation AAS-T
- Agricultural GPS/Guidance Systems CA
- Geographic Information Systems (GIS) I and II
- Unmanned Aerial Systems (UAS) Technical Management AAS, Cert
- Unmanned Aerial Systems (UAS) Mechatronics CA
- Unmanned Aerial Systems (UAS) Remote Pilot Cert

http://www.bigbend.edu

CENTRALIA COLLEGE

- Electronics, Robotics, & Automation AAS

http://www.centralia.edu

CLARK COLLEGE

- Mechatronics (MTX)

http://www.clark.edu

EDMONDS COMMUNITY COLLEGE

- Robotics and Electronics ATA
- Robotics Techology CC

http://www.catalogue.edcc.edu

EVERETT COMMUNITY COLLEGE

- Robotics Foundations Cert

http://www.everettcc.edu

GREEN RIVER COLLEGE

- Unmanned Aerial Systems (UAS) AAS, Cert
- Aeronautical Science: Flight Operations and Aviation Operations Management BAS

http://www.greenriver.edu

NORTH SEATTLE COLLEGE

- Mechatronics AAS
- Industrial Automation and Electronic Controls Cert
- IT Controlled Electronics AAS, Cert

http://www.northseattle.edu

RENTON TECHNICAL COLLEGE

- Mechatronics

http://www.rtc.edu

WALLA WALLA COMMUNITY COLLEGE

- John Deere Technology AAS

http://www.wwcc.edu

CAREER OPPORTUNITIES:

- **Law Enforcement and Security**
- **Precision Agriculture**
- **Supply Chain Automation and Management**
- **Fire Fighting**
- **Wildlife Management**
- **Forestry and Parks Management**
- **Energy Infrastructure Grid**

RESOURCES

TAKE A LOOK AT OUR WHAT'S AVAILABLE FOR VETERANS

THE CENTER OF Excellence for Homeland Security Emergency Management is committed to engaging the skills, talents and experience of our nation's veterans. This is being done through efforts to increase veteran employment opportunities, expand contracting opportunities for veteran-owned businesses, and enhance veteran engagement. The following are some of the resources available to veterans:

- The Veterans' Employment and Training Service (VETS) is a web-based toolkit that is designed to assist veterans in their transition to civilian life and finding employment, as well as to assist and educate employers who have included these men and women in their recruitment and hiring initiatives. http://www.dol.gov/vets/

- Tacoma-Pierce Co. Veteran & Business Service facilitates veteran employment across the business community, promotes the value proposition (veterans are a key business resource opportunity), and enable the military-to-civilian life transition to yield successful employment outcomes. http://www.tacomachamber.org/content/veteran-and-business-service

- Using the post 9/11 GI Bill, you can get up to 36 months of financial support for education and training for graduate and undergraduate degrees, vocational/technical training, correspondence training, licensing and national testing programs, and tutorial assistance to prepare you for a career in cyber security. http://www.benefits.va.gov/gibill/

- The Veterans Retraining Assistance Program (VRAP) offers 12 months of training assistance for unemployed Veterans. You may qualify for up to 12 months of assistance at the full-time payment rate under the Montgomery GI Bill-Active Duty program. http://benefits.va.gov/VOW/education.asp

- SCORE is committed to helping veterans, service members and their families looking to start and grow small businesses with significant, long term success. https://www.score.org/topics/veteran_guards_reservists

- A portion of the Washington Procurement Technical Assistance Center is devoted solely to helping veteran owned businesses succeed at the federal or state level. http://washingtonptac.org/veteran-owned-businesses/

RESOURCES ARE ALSO AVAILABLE FOR WOMEN

Diversity encourages a culture where opinions can be brought together to develop solutions to solve the problems our nation faces today. Men and women approach these problems differently, respond differently to stress, and work differently with colleagues. Emracing both male and female approaches to problems is a key factor for organizational success. Women are underrepresented in the pathways associated with the Homeland Security Emergency Management career field, but there are many resources available to aid in changing this.

- The Anita Borg Institute - This is a non-profit organization whose primary aim is to recruit, retain, and advance women in technology

- National Institute for Women in Trades, Technology & Science (IWITTS) - IWITTS helps educators nationwide to close the gender gap for women and girls in male-dominated careers - such as technology, trades and law enforcement. IWITTS also works with emploers to assist them in integrating women successfully into their male-dominated workplace. In particular, IWITTS has worked extensively with law enforcement agencies.

- National Center for Women & Information Technology - This non-profit community comprises more than 450 prominent corporations, academic institutions, government agencies, and non-profits working to increase women participation in technology and computing. NCWIT helps organizations recruit, retain, and advance women from K-12 and higher education through industry and entrepreneurial careers by providing community, evidence, and action.

- WiCyS - The Women iin Cybersecurity (WiCyS) community raises awareness about the importance and nature of a cybersecurity career. WiCyS hopes to generate interest among students to consider cybersecurity as a viable and promising career option.

- WSC - Women's Society of Cyberjutsu (WSC) is a non-profit passionate organization about helping and empowering women to succeed in the Cybersecurity field.

- The Emergency Management Professional Organization for Women's Enrichment (EMPOWER) is a non-profit that started in 2005 to "help women advance their careers through networking, mentoring, and promoting educational opportunities in the field of emergency management." For more information, visit: www.empower-women.com

- The International Network of Women in Emergency Management: According to the organization's website (http://inwem.org), it's "comprised of a network of international men and women leaders with a passion to create global emergency management systems, and partnerships which promote safer, resilient, sustainable, and prepared, diverse communities and elevate the status of women."

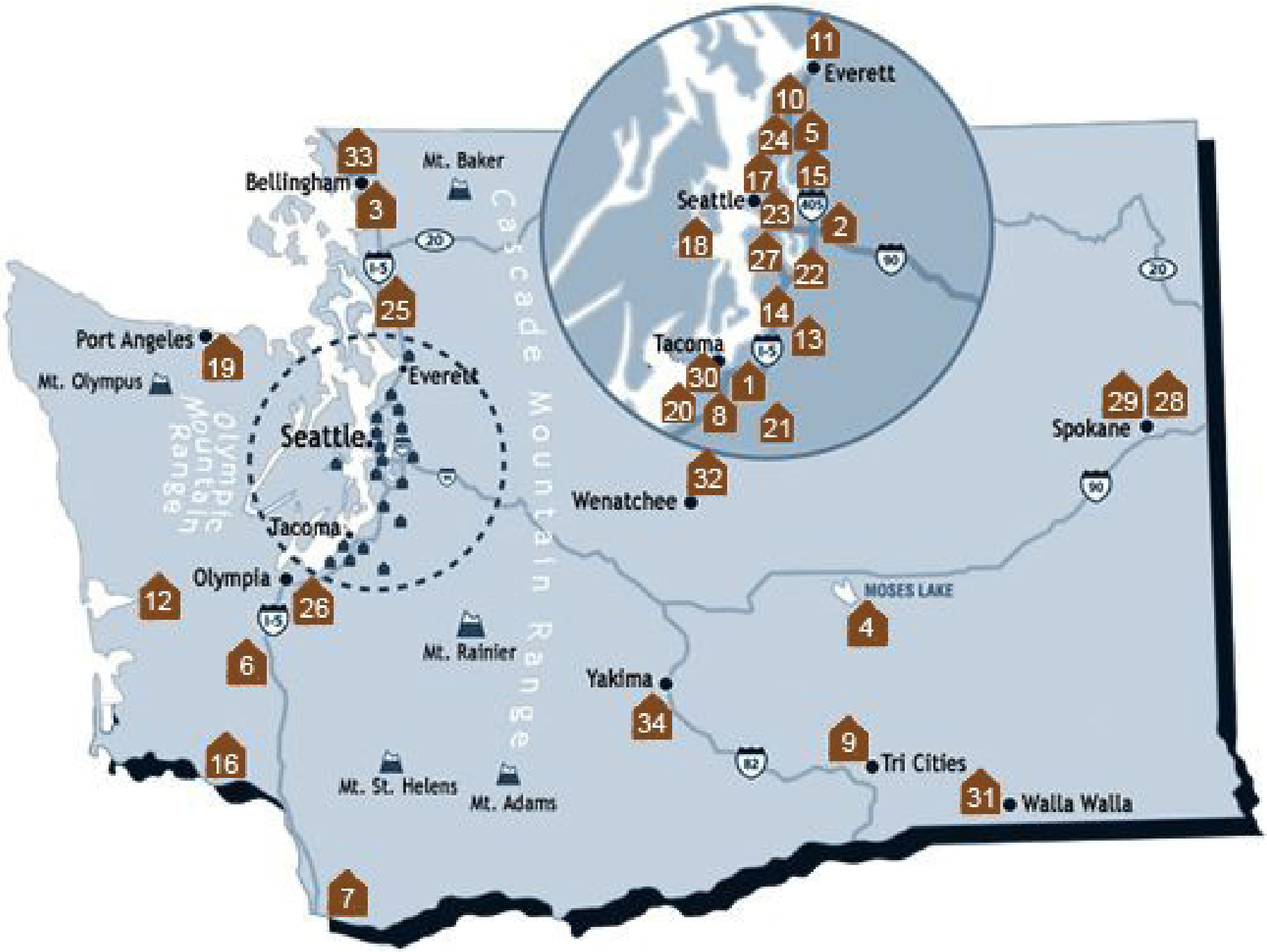
- Women in Homeland Security (WHS) is a non-profit that was founded in 2009 and has more than 800 public and private sector members. "WHS fosters a collaborative environment for homeland security and intelligence on critical homeland security topics confronting the nation." - www.womeninhomelandsecurity.com

- OMWBE (Washington State Office of Minority & Women's Business Enterprises) works to optimize and ensure equity and opportunity for small businesses owned by minorities, women, and the disadvantaged through education, certification, and outreach. For more information, visit: http://omwbe.wa.gov

- WWIN (Washington Women in Need) provides health and education grants to low-income women in Washington to help them improve their lives. Visit their website at: http://wwin.org/

WASHINGTON STATE COMMUNITY & TECHNICAL COLLEGES

A MAP WITH ALL COMMUNITY AND TECHNICAL COLLEGES IN THE STATE



1) Bates Technical College
2) Bellevue College
3) Bellingham Technical College
4) Big Bend Community College
5) Cascadia College
6) Centralia College
7) Clark College
8) Clover Park Technical College
9) Columbia Basin College
10) Edmonds Community College
11) Everett Community College
12) Grays Harbor College
13) Green River College
14) Highline College
15) Lake Washington Institute of Technology
16) Lower Columbia College
17) North Seattle College
18) Olympic College
19) Peninsula College
20) Pierce College-Fort Steilacoom
21) Pierce College-Puyallup
22) Renton Technical College
23) Seattle Central College
24) Shoreline Community College
25) Skagit Valley College
26) South Puget Sound Community College
27) South Seattle College
28) Spokane Community College
29) Spokane Falls Community College
30) Tacoma Community College
31) Walla Walla Community College
32) Wenatchee Valley College
33) Whatcom Community College
34) Yakima Valley Community College

HOMELAND SECURITY EMERGENCY MANAGEMENT | CENTER OF EXCELLENCE

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