



2025

**CENTER OF EXCELLENCE HOMELAND  
SECURITY EMERGENCY MANAGEMENT  
CAREER GATEWAY  
GUIDE**

**ALL-HAZARD EMERGENCY MANAGEMENT PATHWAY PROGRAMS**



## **CENTERS OF EXCELLENCE HISTORY AND AUTHORITY**

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. We accomplish this by working with a coalition of all 34 community and technical colleges, public agencies, and private sector organizations.

## **POWER OF PATHWAY PROGRAMS**

### ***Why do we need emergency management program education?***

“Emergency management is far too important to be the sole province of emergency managers. This discipline binds other professional silos under one umbrella-it functions best when that relationship occurs before, during and after a crisis. I see it as a “bridge” connecting a variety of public and private interests- and a nonpartisan bridge at that. Emergency management cares not a whit whether an impacted individual or group is White, Black, Gay, Straight, documented or undocumented- we are that portion of society that identifies human beings in need as our singular priority.” Jim Mullen (past director of WA Dept. of Emergency Management, past president of National Emergency Management Association (NEMA), and blogger for CoE HSEM) on the importance of education in this field.

The Center promotes a large collection of pathway programs that share skills and responsibilities of occupations in the broad Homeland Security-Emergency Management field. Each pathway program further splits into different career clusters with many educational degrees and employment opportunities. Washington State currently supports over 112,880 employees in the CTE Cluster of Law, Public Safety, Corrections, and Security. There is a growing demand in this cluster for security and protective service professionals, law enforcement, firefighters, and emergency medical technicians. Governmental and public service organizations employ about 40% of the workforce, with 60% employment in the private sector.

Here are our career pathways:

- Criminal Justice/ Forensics/ Corrections/ Paralegal/ Pre-Law
- Emergency Management
- EMT/EMS, Paramedic
- Fire Services (structural and wildland)
- Homeland Security
- Occupational Safety and Health
- IT Security & Technology

Discover more information on different programs and degrees under these career options

## **PATHWAY PROGRAMS SUMMARY**

### **Effective Broker for all Colleges**

The Center provides statewide coordination within our profession and industry sector for the 34 CTC colleges across the state, state's Skills Center, public colleges and universities. The field of all hazard emergency management is broad and includes many areas of work responsibilities. There are six career pathway groups with shared skills and responsibilities of occupations in which allows our system to effectively utilize a "Guided Pathways Approach" to support our students. Each pathway addresses a different career cluster within the program area of all hazard emergency management.

**College programs are subject to change. Please review college catalog and programs to check on availability of programs listed in this Gateway Guide.**

Here are our career pathways:

1. Criminal Justice/ Corrections/Forensics/Paralegal/Pre-Law . . . . .	Pages 3-8
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### **CRIMINAL JUSTICE**

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.

#### *CAREER OPPORTUNITIES:*

- Police Officer
- Detective
- Probation and Patrol Officer
- WSP Trooper
- Park Ranger
- Private Investigator
- Bailiff
- Security Guard
- Communication/Call Taker

### **Colleges offering programs in CRIMINAL JUSTICE:**

#### **BELLEVUE COLLEGE**

Criminal Justice AAS-T

<http://www.bellevuecollege.edu>

#### **BIG BEND COMMUNITY COLLEGE**

Criminal Justice AAS-T, AAS

<http://www.bigbend.edu>

#### **CASCADIA COLLEGE**

Criminal Justice AIS-DTA

<http://www.cascadia.edu>

#### **CENTRALIA COLLEGE**

Criminal Justice AAS, AA

Crime Scene Investigation CP

<http://www.centralia.edu>

#### **COLUMBIA BASIN COLLEGE**

Criminal Justice AAS

Forensic Science AAS

<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 AAS, AAS-T, CC

<http://www.ghc.edu>

#### **GREEN RIVER COLLEGE**

Criminal Justice AAS-T

Law Enforcement Cert

Criminal Justice: Forensic Technology AAS-T, CC

<http://www.greenriver.edu>

#### **HIGHLINE COLLEGE**

Criminal Justice AAS

Private Security Academy Cert

<http://justice.highline.edu>

#### **LOWER COLUMBIA COLLEGE**

Criminal Justice AA-DTA, AAS

<http://lowercolumbia.edu>

#### **PENINSULA COLLEGE**

Criminal Justice AAS, AAS-T, Certificate

<http://pencol.edu>

#### **PIERCE COLLEGE**

Criminal Justice AAS, Certificate

Explorer/Cadet-Pre-Law Enforcement Cert

Crime Analysis and Investigations Certificate

Forensic Technology Cert

<http://www.pierce.ctc.edu>

#### **SHORELINE COMMUNITY COLLEGE**

Criminal Justice AAAS

Criminal Justice Pre-Major AA-DTA

Criminal Justice - Advocacy CC

Criminal Justice Support Services CC

<http://www.shoreline.edu>

#### **SKAGIT VALLEY COLLEGE**

Parks Law Enforcement Academy Certificate

<http://www.skagit.edu>

#### **SOUTH PUGET SOUND COMMUNITY COLLEGE**

Criminal Justice AA DTA

<https://spsc.edu/all-programs>

**WALLA WALLA COMMUNITY COLLEGE**

Criminal Justice AAS-T, AAS  
Criminal Justice Administration Concentration  
BAS  
<http://www.wwcc.edu>

**WHATCOM COMMUNITY COLLEGE**

Criminal Justice AAS  
Criminal Justice AAS (Computer Forensics)  
Criminal Justice Cert  
<http://www.whatcom.ctc.edu>

**WENATCHEE VALLEY COLLEGE**

Criminal Justice AAS-T, ATS  
<http://www.wvc.edu>

**YAKIMA VALLEY COLLEGE**

Criminal Justice AAS, AAS-T  
Communication/Call Taker Cert  
Crime Scene Investigation Cert  
Police Clerk/Support Specialist Cert  
<http://www.yvcc.edu>

## CORRECTIONS

Graduates who concentrate on 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 disciplinary 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 understanding 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

## Colleges offering programs in CORRECTIONS:

**GREEN RIVER COLLEGE**

Corrections CP  
<http://www.greenriver.edu>

**WENATCHEE VALLEY COLLEGE**

Corrections Cert  
<http://www.wvc.edu>

**YAKIMA VALLEY COLLEGE**

Corrections Cert  
<http://www.yvcc.edu>

## FORENSICS

Forensics is concerned with the recognition, identification, individualization, and evaluation of physical evidence using the methods of the natural sciences. Some of the significant 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. (Cyber and computer forensics listed under IT)

### *PROGRAM OVERVIEW:*

Programs in forensic science combine courses in investigations, 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 new Automatic Fingerprint Identification System (AFIS).

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.

### *CAREER OPPORTUNITIES:*

- Fingerprint Science
- Explosives
- Ballistics
- DNA
- Police Department
- Crime Scene Unit/Lab
- Forensic Technician
- Forensic Investigator

## Colleges offering programs in FORENSICS:

### **BELLEVUE COLLEGE**

Molecular Biosciences BAS  
<https://www.bellevuecollege.edu>

### **CENTRALIA COLLEGE**

Crime Scene Investigation CP  
<http://www.centralia.edu>

### **COLUMBIA BASIN COLLEGE**

Forensic Science AAS  
<http://www.columbiabasin.edu>

### **GREEN RIVER COLLEGE**

Forensic Technology AAS-T  
Forensic and Fingerprint Technology CP  
<http://www.greenriver.edu>

### **PIERCE COLLEGE**

Crime Analysis and Investigations Cert  
Forensic Technician Cert  
<http://www.pierce.ctc.edu>

### **YAKIMA VALLEY COLLEGE**

Crime Scene Investigation Cert  
<http://www.yvcc.edu>

## PARALEGAL

Through formal education, training and experience, paralegals have knowledge and expertise regarding both the legal system and substantive and procedural laws which 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, understanding 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, capably assist in all courtroom proceedings.

### *CAREER OPPORTUNITIES:*

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

## PRE-LAW

Pre-Law involves learning various multifaceted programs relating to how laws work, how they're made, how they apply to society and law in general. Students will learn the practicality of laws and how they are shaped by various sources. Through formal education, training and experience, paralegals have knowledge and expertise regarding both the legal system and substantive and procedural laws which 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, understanding procedures that involve decision making, and performing administrative functions. Pre-Law coursework varies depending on which role you are interested in pursuing. The pathway can vastly vary from legal assistant certificated to law school.

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.

#### CAREER OPPORTUNITIES:

- Administrative Law Judges
- Adjudicators
- Hearing Officers Arbitrators
- Mediators
- Conciliators
- Judge
- Lawyer
- Pre-Law Degree Options

### Colleges offering programs in PARALEGAL AND PRE-LAW:

#### CLARK COLLEGE

Paralegal AAS, CP  
<http://www.clark.edu>

#### EDMONDS COMMUNITY COLLEGE

Paralegal ATA, AAS-T  
Paralegal - Advanced Paralegal Cert (Bachelor's degree or higher)  
<http://www.edcc.edu>

#### GREEN RIVER COLLEGE

Court Reporting and Captioning BAS, AAA, Cert  
Legal Administrative Assistant AAA  
<http://www.greenriver.edu>

#### HIGHLINE COLLEGE

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

#### LOWER COLUMBIA COLLEGE

Pre-Law Focus AA-DTA  
<https://lowercolumbia.edu/>

#### PENINSULA COMMUNITY COLLEGE

Paralegal AAS  
<https://pencol.edu>

#### RENTON TECHNICAL COLLEGE

Legal Assistant AAS, CC  
<http://rtc.edu>

#### SOUTH PUGET SOUND COMMUNITY COLLEGE

Paralegal AAS  
Pre-Law AA-DTA  
<https://spsc.edu/all-programs>

#### SPOKANE COMMUNITY COLLEGE

Paralegal AAS, Cert  
Pre-Law AA-DTA  
<http://www.scc.spokane.edu>

#### TACOMA COMMUNITY COLLEGE

Paralegal AAS, Preferred Pro-Cert  
<http://www.tacomacc.edu>

#### WHATCOM COMMUNITY COLLEGE

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

#### YAKIMA VALLEY COLLEGE

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



## EMT/EMS/PARAMEDIC/HEALTH SERVICES

The pathway of Emergency Medical and Health Services deals with the performance of basic life-saving skills and transportation to further emergency services. Health services serve patients, families, and populations in local and global communities. These services are centered around accessible, high quality, and patient centered care.

### *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 treatment procedures short of those rendered by physicians.
- Assessing and recognizing illness or injury related to medical and traumatic causes.
- Providing basic life support as well as advanced life support measures to treat illness or injury.

### *Career Opportunities:*

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

## Colleges offering programs in EMERGENCY MEDICAL & HEALTH SERVICES:

Thirteen (13) of our CTC colleges offer Emergency Medical Technician and Three (3) Paramedic Certifications. Many community colleges offer Allied Health, Nursing, Community/Public/Global Health, Vet Tech and Dental Hygiene (basic introduction to emergency and disaster curriculum required):

### **BATES TECHNICAL COLLEGE**

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

### **BELLINGHAM TECHNICAL COLLEGE**

Emergency Medical Technician Cert  
Paramedic AAS  
<http://www.btc.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>

**EVERETT COMMUNITY COLLEGE**

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

**HIGHLINE COLLEGE**

Community Health & Wellness- AAS  
<https://www.highline.edu>

**LAKE WASHINGTON INSTITUTE OF TECHNOLOGY**

Public Health BAS  
<http://www.lwtech.edu>

**LOWER COLUMBIA COLLEGE**

Community, Health and Wellness Advocate COP  
<http://lowercolumbia.edu>

**NORTH SEATTLE COLLEGE**

Emergency Medical Technician-Basic Short Cert  
<https://www.northseattle.edu>

**OLYMPIC COLLEGE**

Emergency Management – Healthcare CR  
<https://www.olympic.edu>

**PENINSULA COLLEGE**

Emergency Medical Technician - Basic Short  
Term Proficiency cert  
<http://pencol.edu>

**PIERCE COLLEGE**

Emergency Medical Services AAS-T, Cert  
Healthcare Emergency Management Cert  
Paramedic Cert  
<http://www.pierce.ctc.edu>

**SEATTLE CENTRAL COLLEGE**

Community Health and Education BAS  
Public Health - Global Health AA-DTA, AAS-T  
<http://www.seattlecentral.edu>

**SHORELINE COMMUNITY COLLEGE**

Health Informatics & Information Management  
AAAS, AA-DTA  
Environmental Health AS-T  
Public & Community Health AA-DTA  
<http://www.shoreline.edu>

**SKAGIT VALLEY COLLEGE**

Basic Emergency Medical Technician Micro-Cert  
Enhanced Emergency Medical Technician  
Micro-Cert  
Park Ranger Law Enforcement Academy  
PRLEA/EMR Cert  
<https://www.skagit.edu>

**SOUTH SEATTLE COLLEGE**

Public Health-Global Health AA-DTA  
<https://southseattle.edu>

**SPOKANE COMMUNITY COLLEGE**

Emergency Medical Technician-Basic Cert  
Health Information Management AAS  
<http://www.scc.spokane.edu>

**SPOKANE FALLS COMMUNITY COLLEGE**

Integrated Community Services AAS, Cert  
<https://sfcc.spokane.edu>

**TACOMA COMMUNITY COLLEGE**

Community Health BAS  
Emergency Medical and Health Services AAS  
Emergency Medical Technician-Basic Cert  
Paramedic Cert  
<http://www.tacomacc.edu>

**WENATCHEE VALLEY COLLEGE**

Emergency Medical Technician Cert  
First Aid & CPR  
<https://www.wvc.edu>

## **FIRE SERVICE (Structural & Wildland)**

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

### *CAREER OPPORTUNITIES:*

- |   |                          |
|---|--------------------------|
| • Fire fighter                          | • Fire Investigator      |
| • Fire Prevention & Protection Engineer | • Leader in Fire Control |
| • Rescue Worker                         | • Wildland Firefighter   |
| • Fire System Technician                | • Forestry               |

## Colleges offering programs in FIRE SCIENCE:

### **BATES TECHNICAL COLLEGE**

Fire Service AAS  
Fire Service Supervision AAS  
Fire Recruit Academy CoT  
Public Safety Administration BAS  
Wildland Firefighter II CoT  
Fire Apprenticeship  
FESHE courses  
<http://www.bates.ctc.edu>

### **BIG BEND COMMUNITY COLLEGE**

Aircraft Rescue Fire Fighter CC  
Initial Aircraft Rescue Fire Fighter Program (ARFF) CC  
FAA Mandated Recurrent Live Fire Training CC  
ARFF Officer Development Class  
ARFF Crash Truck Operator Training  
Fluorine-Free Foam  
<http://www.bigbend.edu>

### **CLOVER PARK TECHNICAL COLLEGE**

Electrician Low Voltage Fire/Security AAT  
Degree, Cert  
<http://www.cptc.edu>

### **COLUMBIA BASIN COLLEGE**

Fire Science AAS  
<http://www.columbiabasin.edu>

### **EVERETT COMMUNITY COLLEGE**

Fire Science AAS-T  
Firefighter Academy CERT  
Wildland Firefighting Cert  
Certificates IFSAC, FFI, Haz-Mat Awareness & Operations  
<http://www.everettcc.edu>

### **GREEN RIVER COLLEGE**

Natural Resources - Wildland Fire AAS  
<https://www.greenriver.edu>

### **GRAYS HARBOR COLLEGE**

Natural Resources-Forestry AAS, AAS-T, Cert  
<https://www.ghc.edu>

### **NORTH SEATTLE COLLEGE**

Fire Science AAS-T  
<https://northseattle.edu>

### **PENINSULA COLLEGE**

Natural Resources AAS-T, Cert  
<https://pencol.edu>

### **PIERCE COLLEGE**

Fire Command and Administration AAS-T  
Fire Services Leadership and Management BAS-FSLM, AAS  
<http://www.pierce.ctc.edu>

### **SKAGIT VALLEY COLLEGE**

Fire Protection Technology AAS  
Fire Service Administration AAS-T  
Park Ranger Law Enforcement Academy  
PRLEA/FIRE Cert  
<http://www.skagit.edu>

### **SOUTH PUGET SOUND COMMUNITY COLLEGE**

Offered under adult education  
<http://www.spscc.edu>

### **SPOKANE COMMUNITY COLLEGE**

Fire Science Technology AAS  
<https://www.scc.spokane.edu>

### **WENATCHEE VALLEY COLLEGE**

Fire Science ATS (under revision)  
<http://www.wvc.edu>

## **HOMELAND SECURITY / EMERGENCY MANAGEMENT**

The pathway of Homeland Security and Emergency Management is comprised of individuals who are ready to respond to emergency situations. These Programs are designed to prepare the next generation of emergency and policy leaders with the knowledge and skills they need to respond to a natural, public health threat, wartime, technological disaster, hostage situation or other emergency. They do so by coordinating response and crisis management activities, providing disaster preparedness training, and emergency and recovery 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.

### *CAREER OPPORTUNITIES:*

- |  |  |
|--|--|
| • Risk Management Specialist                 | • Homeland Security Coordinator              |
| • Crisis Response Manager                    | • Mission Critical Operator                  |
| • Disaster Recovery Specialist               | • Drone Operator                             |
| • Hazard Mitigation Officer                  | • GPS Guidance Systems Controller and Tribal |
| • Emergency Management/Preparedness Director |  |

## **Colleges offering programs in HOMELAND SECURITY/EMERGENCY MANAGEMENT:**

**BATES TECHNICAL COLLEGE**

Public Safety Administration BAS

<http://www.bates.ctc.edu>

**BELLEVUE COLLEGE**

Sustainability (communications) AAS-T

<https://www.bellevuecollege.edu>

**BELLINGHAM TECHNICAL COLLEGE**

Process Technology AAS, AAS-T, Cert

Water & Wastewater Treatment Cert

<http://www.btc.edu>

**CASCADIA COLLEGE**

Emergency Management AAS-T

American Indian and Indigenous Studies AIS-DTA

IT Infrastructure Operations Security Support Cert

Sustainable Practices BAS

Water Resource Management AAS-T

<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>

**EVERETT COMMUNITY COLLEGE**

Healthcare Risk Management Cert

<http://www.everettcc.edu>

**GREEN RIVER COLLEGE**

Aviation Technology AAS

Aviation Technology Air Traffic Controller Cert

Aviation Technology Airline Dispatcher Cert

Aviation Operations Management

Aviation Technology Unmanned Aerial Vehicles

Cyber Security Cert

Aviation Technology Unmanned Aerial Vehicles

Digital Photography Cert

Unmanned Aerial Systems (UAS) AAS, CP

Natural Resource in Forest Resource

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 Tech CP

<http://www.greenriver.edu>

**HIGHLINE COLLEGE**

Emergency Management AAS

Introduction to Homeland Security Cert

Housing Shelter Facility Operations Cert

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**

Emergency Management AAS-T, CC

Emergency Management – Healthcare CR

GIS/Architectural/Civil Technician Cert

Tribal Emergency Management Cert

Uncrewed Aerial Vehicle (UAV) Photography CR

Uncrewed Aerial Vehicle Surveying CR

<http://www.olympic.edu>

**PENINSULA COLLEGE**

Emergency Management AAS, Cert  
Emergency Management Tribal Cert  
Natural Resources AAS-t, Cert  
Tribal Management Short Term Cert  
Tribal Management Specialization BAS  
<http://pencol.edu>

**PIERCE COLLEGE**

Emergency Management AA-T, BAS, Cert  
Disaster Risk Management Cert  
Healthcare Emergency Management Cert  
Tribal Emergency Management Cert  
<http://www.pierce.ctc.edu>

**SEATTLE CENTRAL COLLEGE**

Global Studies AA-DTA, AB, AS  
<http://www.seattlecentral.edu>

**SHORELINE COMMUNITY COLLEGE**

Environmental Studies AS-T  
International/Global Studies Pre-Major AA-DTA  
Purchasing and Supply Chain Management  
AAAS, CP, CC  
Purchasing Supply Chain Management AAAS,  
CP, CC  
Supplier Relations and Logistics CC  
<https://www.shoreline.edu>

**SKAGIT VALLEY COLLEGE**

Environmental Conservation Studies Cert  
Environmental Conservation Advanced Wetland  
Delineation Micro-Cert  
Geographic Information Systems Certificate, MC  
<http://www.skagit.edu>

## **IT SECURITY & TECHNOLOGY**

Those who pursue the IT Security pathway will develop and use the skills necessary to 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, layered 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.

There are 34 community and technical colleges in Washington State offering a variety of Informational Technical and Cybersecurity programs. The Center of Information Technology focuses on directly supporting these colleges and their IT programs, while the Center of Excellence Homeland Security Emergency Management focuses on the security, administration and management, and planning aspects of the programs.

## **Colleges offering programs in IT SECURITY & TECHNOLOGY:**

### **BATES TECHNICAL COLLEGE**

Cybersecurity AAS, AAS-T  
Network Security Support CC  
Computer Support CT  
<http://www.bates.ctc.edu>

### **BELLEVUE COLLEGE**

Cybersecurity BAS  
<https://www.bellevuecollege.edu>

### **CLARK COLLEGE**

Cybersecurity BAS  
<http://www.clark.edu>

### **CLOVER PARK TECHNICAL COLLEGE**

Cybersecurity BAS  
Network Operations & Systems Security AAT,  
AAS-T, Cert  
<http://www.cptc.edu>

### **COLUMBIA BASIN COLLEGE**

Cyber Security BAS  
<https://www.columbiabasin.edu>



**EDMONDS COMMUNITY COLLEGE**

Cyber Security Specialist Cert  
Computer Forensics CC  
Information Security and Digital Forensics ATA  
Cyber Defense and Digital Forensics AT, Cert  
<https://www.edcc.edu>

**EVERETT COMMUNITY COLLEGE**

Industrial Cybersecurity 1<sup>st</sup> in nation  
Computer Support Specialist Cert  
Cybersecurity Analyst Cert  
<http://www.everettcc.edu>

**HIGHLINE COLLEGE**

Cybersecurity and Digital Forensics BAS  
Cybersecurity Operations AAS  
Digital Forensics & Investigation Cert  
Digital Forensics & Protection Cert  
Information Systems Project Coordinator  
Computer Forensics Specialization AAS  
Network Security and Cisco CCNa  
<http://www.highline.edu>

**GREEN RIVER COLLEGE**

Cybersecurity and Networking BAS, AAS-T  
Information Technology Security Fund Cert  
<http://www.greenriver.edu>

**LAKE WASHINGTON INSTITUTE OF Technology**

Computer Security and Network Technology  
AAS, AAS-T, CP  
<http://www.lwtech.edu>

**OLYMPIC COLLEGE**

Information Technology – Security AAS-T  
<http://www.olympic.edu>

**PENINSULA COLLEGE**

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

**PIERCE COLLEGE**

Network Engineering and Cybersecurity AAS  
<http://www.pierce.ctc.edu>

**RENTON TECHNICAL COLLEGE**

Cybersecurity Analyst AAS-T  
<http://rtc.edu>

**SEATTLE CENTRAL COLLEGES**

Data Analytics and Database Cert  
Network Design and Administration AAS-T, Cert  
<http://www.seattlecentral.edu>

**SOUTH PUGET SOUND COMMUNITY COLLEGE**

Cybersecurity and Network Administration AAS  
<https://spsc.edu/all-programs>

**SPOKANE FALLS COMMUNITY COLLEGE**

Cybersecurity BAS  
Information Technology/Cybersecurity AAS  
<https://sfcc.spokane.edu>

**TACOMA COMMUNITY COLLEGE**

Advanced Networking & Data Security BAS  
Networking & Cybersecurity AAS  
<http://www.tacomacc.edu>

**WHATCOM COMMUNITY COLLEGE**

Criminal Justice - Computer Forensics AS  
Cybersecurity AAS-T  
IT Networking -Cybersecurity BAS  
<http://whatcom.edu>

## OCCUPATIONAL SAFETY & HEALTH

Occupational Safety and Health professionals work to prevent accidents and health hazards to workers, the community, and the environment. Specialists in this field 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.

### *CAREER OPPORTUNITIES:*

- Hazardous Materials Remover
- OSH Specialist
- OSH Technician
- Safety Coordinator
- Safety Inspector
- Safety Manager

### ***Colleges offering programs in OCCUPATIONAL SAFETY & HEALTH:***

#### **COLUMBIA BASIN COLLEGE**

OSHA - 10 Safety Training CC  
Occupational Safety & Health technology AAS  
<https://www.columbiabasin.edu/>

#### **EDMONDS COMMUNITY COLLEGE**

Occupational Safety and Health Technician AAS-T, Cert  
Construction Safety Technician Cert  
<http://www.edcc.edu>

#### **PIERCE COLLEGE**

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

# ***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.

Programs subject to change. Consult websites for current programs.

Cascadia Tech Academy

Columbia Basin Technical Skills Center

News Market Skills Center

Twin Harbors

New TECH Skills Center

Northwest Career and Technical Academy

NW Tech Academy Branch Campus

Pierce County Skills Center

Puget Sound Skills Center

SEA-Tech Skills Center

Seattle Skills Center

Sno-Isle Tech Skills Center

Spokane Valley Tech

Tri-Tech Skills Center

Washington Network for Innovative Careers

Wenatchee Valley Technical Skills Center

West Sound Technical Skills Center

Yakima Valley Technical Skills Center

## WA SKILLS CENTER COE SKILLS TAUGHT IN HIGH SCHOOLS

Skill Center	Location	Robotics/Drone Tech	Criminal Justice	Cyber Security/It	EMS/EMT	Fire	HSEM	Forest Management/	Transportation/ //Logistics
Cascadia Tech Academy	Vancouver	X	X	X		X		X	
Columbia Basin Technical Skills Center	Moses Lake		X			X			
New Market Skills Center	Olympia		X		X	X			
Twin Harbors	Aberdeen		X						
NEW TECH Skills Center	Spokane	X	X						
Northwest Career and Technical Academy	Mt. Vernon		X	X	X	X			
NW Tech Academy Branch	Anacortes		X	X	X	X			X
Pierce County Skills Center	Puyallup		X	X	X	X			X
Puget Sound Skills Center	Burien	X	X	X	X	X	X		
SEA-Tech Skills Center	Walla Walla		X						
Seattle Skills Center	Seattle				X	X			
Sno-Isle Tech Skills Center	Everett		X	X		X			
Spokane Valley Tech	Spokane Valley	X		X	X	X			
Tri-Tech Skills Center	Kennewick		X	X	X	X			
WA Network for Innovative Careers	Kirkland			X	X	X			
Wenatchee Valley Technical Skills Center	Wenatchee	X	X			X			
West Sound Technical Skills Center	Bremerton		X			X			
Yakima Valley Technical Skills Center	Yakima Sunnyside		X	X	X	X			