



2024

**Homeland Security Emergency Management  
CENTER OF EXCELLENCE**

# **CAREER GATEWAY GUIDE**

**ALL-HAZARD EMERGENCY MANGEMENT 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 109,379 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

<https://www.coehsem.com/wp-content/uploads/2020/07/Pathways-Resource-Guidebook.pdf>

<https://www.coehsem.com/pathways-programs/>

## **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.

View our Resource Guide: <https://www.coehsem.com/wp-content/uploads/2020/07/Pathways-Resource-Guidebook.pdf>

Here are our career pathways:

1. Criminal Justice/ Corrections Forensics/Paralegal/Pre-Law
2. IT Security & Technology
3. EMS/EMT/Paramedic
4. Fire Services (Structural and Wildland)
5. Homeland Security/Emergency Management
6. Occupational Safety & Health

### **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>

**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, or CC
- <http://www.ghc.edu>

**GREEN RIVER COLLEGE**

- Criminal Justice AAS-T
  - Law Enforcement Cert
  - Criminal Justice: Forensic Technology AAS-T, Cert
- <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
  - Criminal Justice - Advocacy Certificate
- <http://www.shoreline.edu>

**SKAGIT VALLEY COLLEGE**

- Parks Law Enforcement Academy Certificate
- <http://www.skagitedu>

**SOUTH PUGET SOUND COMMUNITY COLLEGE**

- Criminal Justice AA DTA
- <https://spsc.edu/all-programs>

WALLA WALLA COMMUNITY COLLEGE

- Criminal Justice AA-T, AAS
- <http://www.wbcc.edu/criminaljustice>

WENATCHEE VALLEY COLLEGE

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

WHATCOM COMMUNITY COLLEGE

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

SOUTH SEATTLE COLLEGE

- Justice Involved Solutions (JIS) program
- <http://www.southseattle.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.

### *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

- 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:**

**BELLINGHAM TECHNICAL COLLEGE**

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

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

**CLARK COLLEGE**

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

**LOWER COLUMBIA COLLEGE**

- Legal Administrative Assistant AAA
- <https://lowercolumbia.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>

**PENINSULA COMMUNITY COLLEGE**

- Paralegal AAS
- <https://pencol.edu/program/paralegal>

**EVERETT COMMUNITY COLLEGE**

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

**RENTON TECHNICAL COLLEGE**

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

**GREEN RIVER COLLEGE**

- Legal Administrative Assistant AAA
- <http://www.greenriver.edu>

**SHORELINE COMMUNITY COLLEGE**

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

**HIGHLINE COLLEGE**

- Paralegal AAS

**SOUTH PUGET SOUND COMMUNITY COLLEGE**

- Government, Public Administration & Law AA-DTA
  - Paralegal AAS
- <https://spsc.edu/all-programs>



#### SPOKANE COMMUNITY COLLEGE

- Clerical Assistant - Legal Clerical Assistant Cert
- Paralegal AAS, Cert
- Pre-Law AA-DTA

<http://www.scc.spokane.edu>

#### TACOMA COMMUNITY COLLEGE

- Paralegal AAS, Preferred Pro-Cert
- Limited License Legal Technician Program

<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

The pathway of Emergency Medical and Health Services deals largely with the performance of basic life-saving skills including 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. This pathway provides lectures and hands on practice.

#### *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 Medic Technician
- Police, Fire, and Ambulance Dispatcher
- Emergency Room Technician

**COLLEGES OFFERING PROGRAMS IN EMERGENCY MEDICAL & HEALTH SERVICES;**

Fourteen (14) of our CTC colleges offer Emergency Medical Technician Certifications and many colleges offer Allied Health, Nursing, 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
- <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>

**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**

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

**NORTH SEATTLE COLLEGE**

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

**PENINSULA COLLEGE**

- Emergency Medical Technician - Basic Short Term Proficiency 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>

**SKAGIT VALLEY COLLEGE**

- Basic Emergency Medical Technician Micro-Cert
  - Enhanced Emergency Medical Technician Micro-Cert
- <https://www.skagit.edu/academics/areas-of-study/public-service-social-science/>

**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.wvcc.edu>

WENATCHEE VALLEY COLLEGE

- Emergency Medical Technician Cert
- <https://www.wvc.edu/academics/>

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

*COLLEGES OFFERING PROGRAMS IN FIRE SCIENCE:*

(Only Pierce College offers the Fire Command and Administration BAS degree which support incumbent workers to move into management and administrative positions):

**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 Rescue 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>

**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/>

**GRAYS HARBOR COLLEGE**

- Natural Resources-Forestry
- <https://www.ghc.edu/academics/programs>

**NORTH SEATTLE COLLEGE**

- Fire Science AAS-T

<https://northseattle.edu/programs/>

**PENINSULA COLLEGE**

- Natural Resources AAS-T, Cert
- <https://catalog.pencol.edu/natural-resources/natr-230>

**PIERCE COLLEGE**

- Fire Command and Administration AAS
- Fire Services Leadership and Management BAS

<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**

Offered under adult education

<http://www.spscc.edu>

**SPOKANE COMMUNITY COLLEGE**

- Fire Officer AAS, Cert
- Fire Science Technology AAS

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

**WENATCHEE VALLEY COLLEGE**

- Fire Science ATS

<http://www.wvc.edu>

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

Colleges that offer programs in Homeland Security Emergency Management:

BELLEVUE COLLEGE

Sustainability (communications) AAS-T

<https://www.bellevuecollege.edu/academics/>

#### BIG BEND COMMUNITY COLLEGE

- Unmanned Aerial Systems (UAS) Operations Cert of Achievement
  - Unmanned Aerial Systems (UAS) Sensing Analyst Cert of Accomplishment
  - Unmanned Aerial Systems (UAS) Professional Remote Pilot Cert of Accomplishment
- <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>

## 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 offering a variety of Information Technology programs. The Center for Information Technology focuses on directly supporting those colleges and their IT programs while our Center focuses on the security administrative and management and planning aspects.

*COLLEGES OFFERING PROGRAMS IN IT SECURITY & TECHNOLOGY:*

EDMONDS COMMUNITY COLLEGE

<http://pencol.edu/>

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

SPOKANE FALLS COMMUNITY COLLEGE

- Computer Forensics/Network Security Certificate

<http://sfcc.spokane.edu/>

HIGHLINE COLLEGE

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

SOUTH PUGET SOUND COMMUNITY COLLEGE

Cybersecurity and Network Administration AAS

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

PENINSULA COLLEGE

- Cybersecurity and Computer Forensics AAS, AAS-T, Cert

WHATCOM COMMUNITY COLLEGE

- Criminal Justice - Computer Forensics AS
- <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/>

- Safety Inspection CC
- <http://www.edcc.edu>

**EDMONDS COMMUNITY COLLEGE**

- Occupational Safety and Health Technician AAS-T
- Construction Safety Technician Cert

**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 SKILL CENTER - LIST- LOCATION - COE HSEM SKILL

COE HSEM SKILL CENTER	LOCATION	ROBOTICS/ DRONE/FLIGHT TECH	CRIMINAL JUSTICE	CYBER SECURITY/ IT	EMS EMT	FIRE	HSEM
Cascadia Tech Academy	Vancouver	x	X	X		X	
Columbia Basin Technical Skills Center	Moses Lake		X			X	
News Market Skills Center	Olympia		X		X	X	
Twin Harbors	Aberdeen		X				
NEW TECH Skills Center	Spokane	X	X				
North Olympic Peninsula Skills Center (CLOSED)	Port Angeles						
Northwest Career and Technical Academy	Mt. Vernon		X		X	X	
NW Tech Academy Branch Campus	Anacortes	X			X	X	
Pierce County Skills Center	Puyallup	x	X	X	X	X	
Puget Sound Skills Center	Burien	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	
Washington Network for Innovative Careers	Kirkland	x		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	x	X	X	X	x	
Yakima Valley Technical Skills Center	Sunnyside						