This degree and certificate program provides entry level skills as well as upgrading and/or refining of existing skills of individuals employed in the field of Environmental Health and Safety Management. The curriculum prepares students for transfer to four-year institutions in an environmental technology or related major. Courses are designed for students pursuing careers in Environmental Management and Occupational Safety and Health with an emphasis on training, regulatory compliance and program development, consulting, pollution prevention, recycling, remediation, conservation, and program management.

**CAREER OPPORTUNITIES**

* Air Quality Engineer
* Asbestos Materials Building Remover
* Associate Toxic Waste Specialist
* Chemical Handler
* Environmental Education Specialist
* Environmental Hazardous Material Technician
* Environmental Health and Safety Specialist
* Environmental Journalist
* Environmental Lawyer
* Environmental Manager
* Environmental Protection Specialist
* Environmental Research – Test Technician
* Game or Fishery Technician
* Geologist
* Health and Safety Technician
* Industrial Hygiene Technician
* Land Use and Planning Technician
* Mold Remediation Technician
* Occupational Health and Safety Technician
* Pollution Control Technician
* Recycling Coordinator
* Risk Management Officer
* Risk Management Technician
* Safety Officer
* Safety Specialist
* Soil Analyst
* Solar Energy Installer
* Wastewater Treatment Operator
* Water Treatment Operator
* Bachelor Degree or higher required

**I. ENVIRONMENTAL MANAGEMENT**

**Program Learning Outcomes**

Upon successful completion of this program, students will be able to:

- Define and apply “safe work practices”, “worker Right to Know” and Community Right to Know requirements.
- Identify and evaluate job processes to identify and implement appropriate risk management strategies.
- Describe agencies that regulate specific hazardous materials.
- Interpret Federal, State and Local regulations governing Construction Safety.
- Define and apply “safe work practices”, “worker Right to Know” and Community Right to Know requirements.
- Identify and evaluate job processes to identify and implement appropriate risk management strategies.
- Describe agencies that regulate specific hazardous materials.
- Interpret Federal, State and Local regulations governing Construction Safety.

**II. ENVIRONMENTAL TECHNICIAN**

**Program Learning Outcomes**

Upon successful completion of this certificate, students will be able to:

- Identify and interpret Federal, State and local regulations related to Environmental Health and Safety Management.
- Understand and analyze historical environmental laws and regulations which impact hazardous material management and their effect on the environment.
- Identify and interpret Federal, state and local regulations related to air pollution.
- Define and describe the components of the Hazard Communication Standards required “Hazardous Communication Plan.”
- Identify and describe components of Storm Water Pollution Prevention Plans in accordance with the Clean Water Act.
- Describe and define Regional Water Quality Control Board role in Clean Water Act over site and enforcement of National Pollution Discharge Elimination System (NPDES) permitting and inspections.
- Understand and analyze historical environmental laws and regulations which impact hazardous material management and their effect on the environment.
- Describe and apply terms common to the hazardous materials industry.
- Describe and apply terms common to the hazardous materials industry.
- Identify key mandatory components of an Injury Illness Prevention Plan (IIPP) in compliance with SB198.

**Certificate Requirements:**

- **Course**
  - BIO 112 Contemporary Issues in Environmental Resources
  - BIO 130 General Biology I
  - BIO 131 General Biology I Laboratory
  - CHEM 115 Fundamentals of Chemistry
  - EHSM 100 Introduction to Environmental and Occupational Safety and Health (OSH) Technology
  - EHSM 110 Pollution Prevention
  - EHSM 150 Hazardous Waste Management Applications
  - EHSM 200 Hazardous Materials Management (HMM) Applications
  - EHSM 210 Industrial Wastewater and Stormwater Management
  - EHSM 215 Air Quality Management
  - EHSM 230 Hazwoper Certification
  - EHSM 240 Cooperative Work Experience
  - CIS 110 Principles of Information Systems
  - COMM 122 Public Speaking
  - SPAN 120 Spanish I

- **Units**
  - 3
  - 3
  - 1
  - 4
  - 4
  - 4
  - 4
  - 3
  - 5
  - 3
  - 4
  - 4
  - 3

- **Total Required**
  - 37-40

**Select one of the following:**

- **Course**
  - EHSM 100 Introduction to Environmental and Occupational Safety and Health (OSH) Technology
  - EHSM 110 Pollution Prevention
  - EHSM 150 Hazardous Waste Management Applications
  - EHSM 200 Hazardous Materials Management (HMM) Applications
  - EHSM 210 Industrial Wastewater and Stormwater Management
  - EHSM 215 Air Quality Management
  - EHSM 230 Hazwoper Certification
  - EHSM 240 Cooperative Work Experience
  - CIS 110 Principles of Information Systems
  - COMM 122 Public Speaking
  - SPAN 120 Spanish I

- **Units**
  - 4
  - 3
  - 3
  - 3
  - 3
  - 3
  - 3

- **Total Required**
  - 37-40
IV. OCCUPATIONAL SAFETY AND
HEALTH (OSH) TECHNICIAN

Program Learning Outcomes
Upon successful completion of this certificate, students will be able to:
• Identify and evaluated hazardous material routes of entry, toxic effect, risk evaluation and control measures to reduce their exposure and effects.
• Describe and apply terms common to the hazardous materials industry.
• Apply California and Federal safety standards to assess worksites and recognize hazardous conditions and/or noncompliance.
• Assess and evaluate job processes to identify and implement appropriate risk management strategies.
• Describe agencies that regulate specific hazardous materials.
• Interpret Federal, State and Local regulations governing Construction Safety.
• Define and apply “safe work practices”, “worker Right to Know” and Community Right to Know requirements.
• Identify and evaluated hazardous material routes of entry, toxic effect, risk evaluation and control measures to reduce their exposure and effects.
• Identify key mandatory components of an Injury Illness Prevention Plan (IIPP) in compliance with SB198.

Certificate Requirements:

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<td>EHSM 130</td>
<td>Environmental/Occupational Health Effects of Hazardous Materials</td>
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<td>General Industry Safety Standards (HMM) Applications</td>
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<td>EHSM 200</td>
<td>Hazardous Materials Management</td>
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<td>EHSM 201</td>
<td>Introduction to Industrial Hygiene and Occupational Health</td>
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<td>EHSM 240</td>
<td>Cooperative Work Experience</td>
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Select two of the following:

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<td>Construction Safety Standards</td>
<td>3</td>
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<tr>
<td>EHSM 205</td>
<td>Safety and Risk Management Administration</td>
<td>4</td>
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<td>EHSM 230</td>
<td>Hazwoper Certification</td>
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</tr>
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</table>

Certificate of Achievement
Students who complete the requirements above qualify for a Certificate in Occupational Safety and Health (OSH) Technician. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.