ENVIRONMENTAL HEALTH AND SAFETY MANAGEMENT

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 Engineer 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
- Soils 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:

- 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 agencies that regulate specific hazardous materials.

Associate in Science Degree Requirements:

Course	Title	Units
BIO 112	Contemporary Issues in	
	Environmental Resources	З
BIO 130	General Biology I	Э
BIO 131	General Biology I Laboratory	1
CHEM 115	Fundamentals of Chemistry	4
EHSM 100	Introduction to Environmental an	d
	Occupational Safety and Healt	h
	(OSH) Technology	4
EHSM 110	Pollution Prevention	3
EHSM 150	Hazardous Waste Management	
	Applications	4
EHSM 200	Hazardous Materials Manageme	nt
	(HMM) Applications	4
EHSM 210	Industrial Wastewater and	
	Stormwater Management	4
EHSM 215	Air Quality Management	З
EHSM 230	Hazwoper Certification	З
EHSM 240	Cooperative Work Experience	1-4
	:	37-40
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Select one of the following:

CIS 110	Principles of Information Systems	s 4
COMM 122	Public Speaking	З
SPAN 120	Spanish I	5
	-	3-5

Total Required 40-45 Plus General Education Requirements

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 agencies that regulate specific hazardous materials.

Certificate Requirements:

	-	
Course	Title L	Jnits
EHSM 100	Introduction to Environmental and	
	Occupational Safety and Health	
	(OSH) Technology	4
EHSM 110	Pollution Prevention	3
EHSM 150	Hazardous Waste Management	
	Applications	4
EHSM 200	Hazardous Materials Managemen	nt
	(HMM) Applications	4

EHSM 210	Industrial Wastewater and	
	Stormwater Management	4
EHSM 215	Air Quality Management	3
EHSM 230	Safety and Emergency Respons	e 4
EHSM 240	Cooperative Work Experience	1-3
	Total Required	27-29

Certificate of Achievement

Students who complete the requirements above qualify for a Certificate in Environmental Technician. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

III. OCCUPATIONAL SAFETY AND HEALTH (OSH) MANAGEMENT

Program Learning Outcomes

Upon successful completion of this program, 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.

Associate in Science Degree Requirements:

Course	Title	Units
BIO 130	General Biology I	3
BIO 131	General Biology I Laboratory	1
CHEM 115	Fundamentals of Chemistry	4
EHSM 100	Introduction to Environmental an	ıd
	Occupational Safety and Healt	th
	(OSH) Technology	4
EHSM 130	Environmental/Occupational Hea	alth
	Effects of Hazardous Materials	; 3
EHSM 135	General Industry Safety Standar	ds 3
EHSM 145	Construction Safety Standards	3
EHSM 200	Hazardous Materials Manageme	ent
	(HMM) Applications	4
EHSM 201	Introduction to Industrial Hygien	е
	and Occupational Health	4
EHSM 205	Safety and Risk Management	
	Administration	4
EHSM 230	Hazwoper Certification	. 3
EHSM 240	Cooperative Work Experience	1-4
		37-40
Select on	e of the following:	
CIS 110	Principles of Information System	s 4
COMM 122	Public Speaking	3
SPAN 120	Spanish I	5
		3-5
	Iotal Required	40-45

Plus General Education Requirements

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:

Course	litle	Units
EHSM 100	Introduction to Environmental and	ł
	(OSH) Technology	4
EHSM 130	Environmental/Occupational Hea	lth
	Effects of Hazardous Materials	3
EHSM 135	General Industry Safety Standard	ls 3
EHSM 200	Hazardous Materials Managemen	nt
	(HMM) Applications	4
EHSM 201	Introduction to Industrial Hygiene	
	and Occupational Health	4
EHSM 240	Cooperative Work Experience	1-4
	1	9-22
Select two of the following:		
EHSM 145	Construction Safety Standards	3
EHSM 205	Safety and Risk Management	
	Administration	4

Total Required

EHSM 230 Hazwoper Certification

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.

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25-29