

7/4/2025

DATE

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REQUIRED COURSE

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ELECTIVE COURSE

AHD

DIVISION

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NEW COURSE

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REVISION

Lake Land College

Course Information Form

COURSE NUMBER:	FST-080	TITLE: (30 Characters Max)	Haz Mat Awareness and Ops										
SEM CR HRS:	3.0	Lecture:	2.0	Lab:	2.0	ICCB Lab:	2.0	ECH:	4.0				
Course Level:	<input type="checkbox"/> Gen Ed/IAI <input type="checkbox"/> Baccalaureate/Non-IAI			<input checked="" type="checkbox"/> Career/Technical <input type="checkbox"/> Dev Ed/Not in Degree Audit		Clinical Practicum:	0.0	Work-based Learning:	0.0	WBL ECH:	0.0		
Course PCS & CIP:	12 - 43.0203		IAI Code:	N/A			Contact Hours (Minutes/Week)						
Repeatable (Y/N):	N	Pass/Fail (Y/N):	N	Variable Credit (Y/N):	N	Min:		Max:		16 Wks	200	8 Wks	400
Prerequisites:	At least 18 years of age, high school diploma or GED, have Basic Firefighter or Advanced Firefighter certificates. Current fire department affiliation.												
Corequisites:	None												
Catalog Description: (40 Word Limit)	This course will provide firefighters and emergency medical service professionals the basic skills to be able to evaluate and work on an incident scene involving hazardous materials.												

List the Major Course Segments (Units)	Contact Lecture Hours	Contact Lab Hours	Clinical Practicum	Work-based Learning
Laws, regulations and standards	1			
Response components	1			
Chemical and physical properties	1			
Health and safety	1			
Personal protective equipment	2	6		
Intelligence and resources	3			
Recognition and identification of transportation containers	2			
Fixed facilities	2			
Terrorist and other criminal activities	1			
Monitoring	2	6		
Incident analysis	2			
Incident management	2			
Product control	1			
Foam	2	6		
Unknown hazard analysis	1			
Decontamination	3	6		
Dry decontamination	3	6		
TOTAL	30	30	0	0

EVALUATION				
QUIZZES <input checked="" type="checkbox"/>	EXAMS <input checked="" type="checkbox"/>	ORAL PRES <input checked="" type="checkbox"/>	PAPERS <input type="checkbox"/>	
LAB WORK <input checked="" type="checkbox"/>	PROJECTS <input checked="" type="checkbox"/>	COMP FINAL <input checked="" type="checkbox"/>	OTHER <input type="checkbox"/>	

COURSE MATERIALS	
TITLE:	Hazardous Materials Awareness and Operations
AUTHOR:	Rob Schnepf International Association of Fire Chiefs
PUBLISHER:	Jones and Bartlett
VOLUME/EDITION/URL:	3rd edition
COPYRIGHT DATE:	2019

MAJOR COURSE SEGMENT	HOURS	LEARNING OUTCOMES
		<i>The student will be able to:</i>
Laws, regulations and standards	1	1. Apply the laws, regulations and standards to hazardous materials.
Response components	1	1. Determine the strategic and tactical objectives to be completed at all hazardous materials incidents.

Chemical and physical properties	1	1. Predict how the chemical and physical properties of a product will affect response to a hazardous materials incident.
Health and safety	1	1. Relate health hazards with an associated material and container.
Personal protective equipment	8	1. Demonstrate how to work in each type of personal protective equipment that are available to the operations-trained provider.
Intelligence and resources	3	1. Interpret resource and intelligence information as it relates to hazardous materials response.
Recognition and identification of transportation containers	2	1. Determine the different types of hazardous materials containers and markings to identify the specific transportation and storage containers.
Fixed facilities	2	1. Identify the different fixed facility containers, markings and hazards associated with the hazardous materials transports and stored within those containers.
Terrorist and other criminal activities	1	1. Classify terrorist incidents into one of the five basic categories: chemical, biological, radiological, nuclear and explosive.
Monitoring	8	1. Demonstrate monitoring the environment of an unknown material.
Incident analysis	2	1. Describe the procedures for predicting a material from its container.
Incident management	2	1. Identify the different roles in the incident management system and what role the first responder serves.
Product control	1	1. Demonstrate how to confine a hazardous material to a specific area.
Foam	8	1. Demonstrate the use of foam in vapor suppression.
Unknown hazard analysis	1	1. Identify ways to obtain information on an unknown hazardous material.
Decontamination	9	1. Demonstrate proper selection, set-up, operation and tear down of a decontamination line.
Dry decontamination	9	1. Demonstrate the proper decontamination of a first responder without the use of water.
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Outcomes*	Outcome Title	At the successful completion of this course, students will be able to:
Course Outcome 1	Operate Decontam	Operate a decontamination station.
Course Outcome 2	Identify Haz Mat	Identify hazardous materials signs and containers.
Course Outcome 3	Classify Haz Mat	Classify hazardous materials.
Course Outcome 4	Haz Mat Strat Plan	Develop a strategic plan for an incident involving hazardous materials.
Primary Laker Learning Competency	Scientific Literacy: Students apply the scientific process to real-life situations.	

Secondary Laker Learning
Competency

Critical Thinking: Students connect knowledge from various disciplines to formulate logical conclusions.

**Course and program outcomes will be used in the software for outcomes assessment and should include at least 1 primary and 1 secondary Laker Learning Competency. Limit to 3-5.*