

University of Illinois Fire Service Institute

Course Syllabus

Course Title: Pipeline Emergencies – First Responder Awareness

Course Duration: 4 hours

Program: Hazardous Materials Program

Course Prerequisites: None

Course Description:

Pipeline Emergencies – First Responder Awareness course provides those who are or will be responding to pipeline emergencies the basic skills necessary to determine the presence of pipelines and the release of various products being transported within. The objective of the course is to provide information for the student to conduct risk assessments, perform public safety actions, and make appropriate notifications to pipeline operators and response entities effectively and safely.

Course Requirements:

Pre-Course Work – None

Course Work – Complete all reading assignments, practicals, and exercises.

Post-Course Work – None

Course Policies:

Safety Policy: Students shall understand and follow all instructions pertaining to operational safety, as stated by instructors or as written in course materials. Instructors and students shall be mindful of safety at all times. Conduct judged to be unsafe shall be grounds for dismissal from the course.

Academic Integrity Policy: IFSI has the responsibility for maintaining academic integrity so as to protect the quality of the education provided through its courses and to protect those who depend upon our integrity. It is the responsibility of the student to refrain from infractions of academic integrity, from conduct that may lead to suspicion of such infractions, and from conduct that aids others in such infractions. Any violation of the code of conduct is grounds for immediate dismissal from the course.

University of Illinois Fire Service Institute

American Disabilities Act: As guaranteed in the Vocational Rehabilitation Act and in the American Disabilities Act, if any student needs special accommodations, they are to notify their instructor and provide documentation as soon as possible so arrangements can be made to provide for the student's needs. If arrangements cannot be made at the class site, the student will test at an alternative time and place where special accommodation can be made.

Course Content:

Module 1: **Introduction, Scope, and Purpose**

Terminal Learning Objective:

At the conclusion of this module, the student will describe the purpose of this course and how government agencies, trade associations, and pipeline operators are involved.

Module 2: **Pipeline Infrastructure, Identification and Operations**

Terminal Learning Objective:

At the conclusion of this module, the student will identify the components of the pipeline infrastructure, describe the fundamentals of pipeline operations, and describe how to identify their locations and operators.

Module 3: **Information, Instrumentation, & Intelligence**

Terminal Learning Objective:

At the conclusion of this module, the student will identify various resources and instruments that can be used to collect information related to pipeline emergencies involving hazardous materials.

Module 4: **Pipeline Emergency Response Operations**

Terminal Learning Objective:

At the conclusion of this module, the student will determine how to respond safely and effectively to a pipeline emergency incident.

Reference List:

Hildebrand, Michael S. & Noll, Gregory G. Pipeline Emergencies, 3rd Ed. National Association of State Fire Marshals, Cheyenne, WY, 2017.

Recommended Reading List:

Hildebrand, Michael S. & Noll, Gregory G. Pipeline Emergencies, 3rd Ed. National Association of State Fire Marshals, Cheyenne, WY, 2017.

Noll, Gregory, Michael Hildebrand and James Yvorra. *Hazardous Materials: Managing the Incident 4th Ed.* Jones & Bartlett, 2014

University of Illinois Fire Service Institute

Course Schedule

DAY ONE

<u>Event</u>	<u>Duration</u>
Module 1: Introduction, Scope, and Purpose	1 hour
Module 2: Pipeline Infrastructure, Identification, and Operations	45 minutes
Module 3: Information, Instrumentation, & Intelligence	1 hour
Module 4: Pipeline Emergency Response Operations	1 hour
Evaluation	<u>15 minutes</u>
Total	4 hours
