

FIRE-141-HAZARDOUS MATERIALS AWARENESS/OPERATIONS 2 CREDITS

SYLLABUS

CATALOG DESCRIPTION

Designed to give the entry level firefighter the knowledge and competence to operate on a hazardous materials incident. Covers the identification and recognition of hazardous materials, techniques for isolating the scene and denying entry into the area, and basic support techniques utilized by firefighters to assist a technical hazardous material entry team. The 40 hour course covers the organizational structure and necessary elements of incident command of a hazardous materials incident.

Prerequisites: None

Semester Offered: Fall and Spring

Common Student Learning Outcomes

Upon successful completion of San Juan College programs and degrees, the student will demonstrate competency in...

BROAD AND SPECIALIZED LEARNING

Students will actively and independently acquire, apply, and adapt skills and knowledge with an awareness of global contexts.

CRITICAL THINKING

Students will think analytically and creatively to explore ideas, make connections, draw conclusions and solve problems.

CULTURAL AND CIVIC ENGAGEMENT

Students will act purposefully, reflectively, and ethically in diverse and complex environments.

EFFECTIVE COMMUNICATION

Students will exchange ideas and information with clarity in multiple contexts.

INFORMATION LITERACY

Students will be able to recognize when information is needed and have the ability to locate, evaluate, and use it effectively.

INTEGRATING TECHNOLOGIES

Students will demonstrate fluency in the application and use of technologies in multiple contexts.

Student work from this class may be randomly selected and used anonymously for assessment of course, program, and/or institutional learning outcomes. For more information, please refer to the Dean of the appropriate School.

Course Learning Outcomes

Upon successful completion of the course, the student will be able to...

1. Discuss the methods used for isolating the scene and denying entry of unauthorized personnel.

2. Explain in support techniques that operations level firefighters may employ to assist a technical hazmat entry team.
3. Discuss the probable needs for successful mitigation of a hazmat incident.

Specific Learning Outcomes

Upon successful completion of the course, the student will be able to...

1. Demonstrate the ability to identify the presence of hazardous materials by placard, label, container shape, and occupancy.
2. Demonstrate the ability to effectively isolate an incident area and deny entry to non-essential personnel.
3. Demonstrate the ability to assist a technical hazmat entry team with required functions such as dress out, decon, and other functions.
4. Demonstrate an understanding of an appropriate incident command system for hazmat incidents.
5. Meet the requirements of NFPA 472- Qualifications for Hazardous Materials Responders – Operations Level.