



Bucks County Community College

275 Swamp Road, Newtown, PA 18940

Department of Public Safety Training and Certification

Website: <http://www.bucks.edu/publicsafety> Email: fireschool@bucks.edu

Course Outline for Non-Credit Public Safety Programs

I. General Course Information

Course Number: FSC-0795

PSTC Course Track: Hazardous Materials

Course Title: Hazardous Materials Incident Commander (NFPA 1072)

II. Contact/CEU/ConEd Hours

Total Lecture Hours of Instruction: 24.0

Total Lab Hours: (If applicable): 16.0

Total Continuing Education Units (CEU's): (If applicable): 4.0

PA DoH Course Number: Not Applicable

CPC/Other Credits: (If applicable): 0.0/0.0

III. Course Dates/Instructor(s)

Course Dates:

Name of Instructor: Lead:

Assistant(s):

IV. Prerequisite Information

Minimum Age: 18 years of age

Prerequisites:

- Hazardous Materials Operations Level (NFPA 472) Professional Certification OR Hazardous Materials Core Operational Level (NFPA 472) Professional Certification OR Hazardous Materials Core Operational Level (NFPA 1072) Professional Certification

V. Course Description

This is an advanced course which will give the student the ability to function safely and effectively as an Incident Commander in an area exposed to a hazardous material release to meet the requirements defined by 29 CFR 1910.120. Subjects to be covered include site safety procedures, personal protective equipment selection, containment techniques, response strategies, decontamination selection and strategies, incident management system, and skills evaluation through integrated exercises. This course is tested to NFPA 1072 Standard, to the Hazardous Materials Incident Commander Level through the ProBoard. Successful completion of the program requires proficiency demonstration in written/delivery practical skills and a multiple-choice examination.

VI. Learning Outcomes

Upon successful completion of this program, the student shall be able to:

- Identify the presence of hazardous materials and their associated hazards.
- Identify the various types of hazardous atmospheres associated with chemical exposures.
- Identify strategic goals and tactical objectives as they relate to the incident or work environment.
- Identify toxicology concerns and their effect(s) on the body.
- Establish and operate within an Incident Management System.
- Develop an Incident Action Plan and implement that plan in a simulated exercise.
- Conduct briefing, debriefing, and termination procedures during a simulated response
- Execute atmospheric testing strategies in an environment involved with a hazardous material exposure.
- Execute decontamination strategies for entry personnel and contaminated patient(s).
- Identify the procedures used to terminate the response activities associated with the incident or work environment.
- Identify the procedures used to brief a response team on response strategies and objectives associated with the incident or work environment.
- Identify the procedures used to debrief a response team on the strengths, weaknesses and lessons learned associated with the incident or work environment.
- Act as a member of a rescue team, the student will perform command/management activities during controlled integrated exercises.

VII. Course Topics

The following topics will be covered in this course:

• Orientation / Overview / Course Objectives	0.50 Hours
• The Hazardous Materials Management System	2.50 Hours
• Health and Safety	2.00 Hours
• Managing the Incident: Problems, Pitfalls, and Solutions	2.00 Hours
• The Eight Step Process: An Overview	2.00 Hours
• Site Management	2.00 Hours
• Identifying the Problem	3.00 Hours
• Hazard Assessment and Risk Evaluation	3.00 Hours
• Selecting Personal Protective Clothing and Equipment	2.00 Hours
• Information Management and Resource Coordination	2.00 Hours
• Implementing Response Objectives	3.00 Hours
• Decontamination	2.00 Hours
• Terminating the Incident	2.00 Hours
• Skills Development Activities	4.00 Hours
• Course Wrap-up / Evaluation	1.00 Hours
• Certification Testing (Skills and Written)	7.00 Hours

VIII. Reference, Resources, or Learning Materials to be used by the Students *(includes text, audio/visuals, manuals, handouts, art supplies, etc.): lesson handouts, slides, and videotape depicting lesson component.*

Required Text:

- *Hazardous Materials: Managing the Incident, Fourth Edition, Jones and Bartlett Learning*
- *Hazardous Materials: Managing the Incident – Field Operations Guide, Second Edition, Jones and Bartlett Learning*

Resource Materials Needed:

- *Hazardous Materials Incident Commander Certification Handbook, NFPA 1072-2017 Edition, Bucks County Community College*

Required Equipment:

- *Computer with audio/video capability*
- *Internet Access*

Other:

- *Other course materials/handouts provided based on modality of course*

Internal Administrative Use Only

Created/Revised by:	_____	Date:	_____
Department Approval by:	_____	Date:	_____
Entered in System by:	_____	Date:	_____