



Western Technical College

10503110 Firefighter 2

Course Outcome Summary

Course Information

Description	This course continues the Firefighting 1 student's education into basic fire behavior, techniques used to control structural and related fire emergencies, and life safety practices. Students perform all practical evolutions necessary to control and extinguish fires and otherwise meet all requirements for Firefighter 2 certification with the state of Wisconsin and compliance with the requirements of National Fire Protection Association (NFPA) 1001. This is the second part of a two part course containing the coursework preparing the student to be a Basic Fire Fighter according to NFPA 1001 "Standard for Firefighter Professional Qualifications" and in accordance with ILHR 30, WI Statutes.
Career Cluster	Law, Public Safety, Corrections and Security
Instructional Level	Associate Degree Courses
Total Credits	3
Total Hours	72

Pre/Corequisites

Prerequisite	10503142 Fire Fighting Principles
Prerequisite	10503191 Principles of Emergency Services

Textbooks

Fundamentals of Fire Fighter Skills and Hazardous Materials Response - with Access. 4th Edition. Copyright 2019. National Fire Protection Association. Publisher: Jones & Bartlett Publishers. **ISBN-13:** 978-1-284-15142-8. Required.

Emergency Response Guidebook: 2020. Copyright 2020. Publisher: J. J. Keller and Associates, Inc. **ISBN-13:** 978-1-64551-023-9. Required.

Learner Supplies

NFPA compliant fire bunker boots, fire gloves, & Nomex fire hood (Approx \$150), Polo shirt with logo, black pants, black ankle supporting shoes/boots (Approx \$105). **Vendor:** To be discussed in class. Required.

Success Abilities

1. Cultivate Passion: Enhance Personal Connections
2. Cultivate Passion: Increase Self-Awareness
3. Live Responsibly: Develop Resilience
4. Live Responsibly: Foster Accountability
5. Refine Professionalism: Act Ethically
6. Refine Professionalism: Improve Critical Thinking
7. Refine Professionalism: Participate Collaboratively
8. Refine Professionalism: Practice Effective Communication

High Impact Practices

1. Community-Based Learning Service Hours: a key learning experience of this course is connecting course work while helping a community partner. Learn more about civic responsibility and enhance your community.

Program Outcomes

1. Model Fire Protection Technician (National Firefighter Code of Ethics) professional code of ethics
2. Perform fire prevention activities
3. Participate in incident management at an emergency
4. Model firefighter and EMS standards
5. Communicate clearly and effectively

Course Competencies

1. **Determine the need for command, organization and coordination of the IMS until command is transferred and function within an assigned role in an IMS**

Assessment Strategies

- 1.1. Written Objective Test
- 1.2. Skill Demonstration

Criteria

You will know you are successful when:

- 1.1. Score a minimum of 70%
- 1.2. Complete exam within 90 minutes
- 1.3. Complete exam without using any reference books or notes.
- 1.4. Complete exam at prescribed time and place.
- 1.5. Candidate successfully identifies size-up information from photo and info sheet.
- 1.6. Candidate relays pertinent size-up information over radio.

- 1.7. Candidate verbalizes assumption of command over radio
- 1.8. Candidate identifies and requests additional equipment needed.
- 1.9. Candidate successfully gives pertinent information to officer(evaluator) through face to face communication and verbalizes transfer of command over radio.

Learning Objectives

- 1.a. Describe characteristics of the Incident Command System.
- 1.b. Explain the organization of the Incident Command System.
- 1.c. Function within an assigned role within the Incident Command System.
- 1.d. Organize and coordinate an Incident Command System until command is transferred.
- 1.e. Transfer command within an Incident Command System.

2. Complete a basic incident report so that all pertinent information is recorded, the information is accurate and the report is complete.

Assessment Strategies

- 2.1. Written Objective Test
- 2.2. Skill Demonstration

Criteria

You will know you are successful when:

- 2.1. Score a minimum of 70%
- 2.2. Complete exam within 90 minutes
- 2.3. Complete exam without using any reference books or notes.
- 2.4. Complete exam at prescribed time and place.
- 2.5. Complete NFIRS report using incident scenario provided.
- 2.6. Complete NFIRS report ensuring all available information is entered.
- 2.7. Complete NFIRS report using correct codes.

Learning Objectives

- 2.a. Explain the importance of an incident report to the entire fire service.
- 2.b. Describe how to collect the necessary information for a thorough incident report.
- 2.c. Describe the resources that list the codes utilized in incident reports.
- 2.d. Explain the consequences of an incomplete or inaccurate incident report.

3. Communicate the need for team assistance so that the supervisor is consistently informed of team needs, departmental SOP's are followed, and the assignment is accomplished safely.

Assessment Strategies

- 3.1. Written Objective Test
- 3.2. Skill Demonstration

Criteria

You will know you are successful when:

- 3.1. Score a minimum of 70%.
- 3.2. Complete exam within 90 minutes.
- 3.3. Complete exam without using any reference books or notes.
- 3.4. Complete exam at prescribed time and place.
- 3.5. Request emergency traffic using handheld radios.
- 3.6. Communicate a mayday call using available communications during a scenario.
- 3.7. Demonstrate the ability to use at least two methods of communication to initiate a mayday call.

Learning Objectives

- 3.a. Define emergency traffic.
- 3.b. Initiate a mayday call.
- 3.c. Identify common evacuation signals.

4. Extinguish an ignitable liquid fire.

Assessment Strategies

- 4.1. Written Objective Test
- 4.2. Skill Demonstration

Criteria

You will know you are successful when:

- 4.1. Score a minimum of 70%
- 4.2. Complete exam within 90 minutes
- 4.3. Complete exam without using any reference books or notes.
- 4.4. Complete exam at prescribed time and place.
- 4.5. Select correct foam concentrate for given flammable liquid.
- 4.6. Assemble foam firefighting equipment correctly.
- 4.7. Adjust proportioning equipment in accordance with selected concentrate.
- 4.8. Apply foam using one of three methods best suited for scenario.

Learning Objectives

- 4.a. Describe how foam suppresses fire.
- 4.b. Describe the characteristics of Class A Foam.
- 4.c. Describe the characteristics of Class B Foam.
- 4.d. List the major categories of class A foam concentrate.
- 4.e. Describe the characteristics of compressed air foam.
- 4.f. List the major characteristics of Class B foam concentrate.
- 4.g. Describe the characteristics of protein foam.
- 4.h. describe the characteristics of fluoroprotein foam
- 4.i. Describe the characteristics of aqueous film forming foam.
- 4.j. Describe the characteristics of alcohol-resistant foam.
- 4.k. describe how a foam proportioner equipment works.
- 4.l. Describe of foam is applied to fires.
- 4.m. Place an eductor foam line in service.
- 4.n. Apply foam using the sweep method.
- 4.o. Apply foam using the bank method.
- 4.p. Apply foam using the rain-down method.

5. Coordinate an interior attack line for a team's accomplishment of an assignment in a structure fire.

Assessment Strategies

- 5.1. Written Objective Test
- 5.2. Skill Demonstration

Criteria

You will know you are successful when:

- 5.1. Score a minimum of 70%
- 5.2. Complete exam within 90 minutes
- 5.3. Complete exam without using any reference books or notes.
- 5.4. Complete exam at prescribed time and place.
- 5.5. Perform as a member of a team to extinguish an above grade fire safely and effectively.
- 5.6. Perform as a member of a team to extinguish a below grade fire safely and effectively.
- 5.7. Perform as a member of a team to extinguish a vehicle fire safely and effectively.
- 5.8. Demonstrate methods of locating fires in concealed spaces.

Learning Objectives

- 5.a. List the factors that the incident commander (IC) evaluates when determining whether to perform a defensive attack or an offensive attack.
- 5.b. Choose appropriate fire stream based on a situation and the characteristics of the stream.
- 5.c. Perform fire attack using direct, indirect or combination based on the situation encountered.
- 5.d. Explain how ventilation is coordinated with fire suppression operations.
- 5.e. Describe the characteristics of concealed-space fires.
- 5.f. Describe the characteristics of basement fires.
- 5.g. Describe the tactics used to suppress basement fires.
- 5.h. Describe the tactics used to suppress fires above ground level.

6. Control a flammable gas cylinder fire.

Assessment Strategies

- 6.1. Written Objective Test
- 6.2. Skill Demonstration

Criteria

You will know you are successful when:

- 6.1. Score a minimum of 70%
- 6.2. Complete exam within 90 minutes
- 6.3. Complete exam without using any reference books or notes.
- 6.4. Complete exam at prescribed time and place.
- 6.5. Perform as a member of a team to suppress a flammable gas fire safely and effectively.

Learning Objectives

- 6.a. ☐ Describe the characteristics of flammable-gas cylinders.
- 6.b. Describe the hazards presented by flammable-gas fires.
- 6.c. Describe a boiling liquid/expanding vapor explosion.
- 6.d. Describe the tactics used to suppress flammable-gas fires.
- 6.e. Suppress a flammable-gas cylinder fire.

7. Assume responsibility to protect evidence of fire cause and origin so that evidence is noted and protected from further disturbance until investigators can arrive on scene.

Assessment Strategies

- 7.1. Written Objective Test

Criteria

You will know you are successful when:

- 7.1. Score a minimum of 70%
- 7.2. Complete exam within 90 minutes
- 7.3. Complete exam without using any reference books or notes.
- 7.4. Complete exam at prescribed time and place.

Learning Objectives

- 7.a. ☐ Describe the role and relationship of the Fire Fighter II to criminal investigators and insurance investigators.
- 7.b. Describe how the origin and cause of a fire are determined.
- 7.c. Describe how to assist the fire investigators in the process of digging out the fire scene.
- 7.d. Describe the types of evidence that may be uncovered at a fire scene.
- 7.e. Describe techniques for preserving fire-cause evidence.
- 7.f. Describe the steps needed to secure a property.
- 7.g. Explain the importance of protecting a fire scene to aid in cause determination.
- 7.h. Describe the common motives of an arsonist.

8. Perform as a team member to extricate a victim entrapped in a motor vehicle.

Assessment Strategies

- 8.1. Written Objective Test
- 8.2. Skill Demonstration

Criteria

You will know you are successful when:

- 8.1. Score a minimum of 70%
- 8.2. Complete exam within 90 minutes
- 8.3. Complete exam without using any reference books or notes.
- 8.4. Complete exam at prescribed time and place. Perform as a team member to disable the electrical system of a vehicle safely and effectively.
- 8.5. Perform as a team member to conduct scene size up safely and effectively.
- 8.6. Perform as a team member to mitigate hazards of a vehicle accident scene safely and effectively.
- 8.7. Perform as a team member to stabilize a vehicle safely and effectively.
- 8.8. Perform as a team member to perform glass management safely and effectively.
- 8.9. Perform as a team member to gain access to a vehicle involved in an accident safely and effectively.
- 8.10. Perform as a team member to open and remove a vehicle door safely and effectively.

- 8.11. Perform as a team member to displace the dashboard of a vehicle safely and effectively.
- 8.12. Perform as a team member to remove the roof of a vehicle safely and effectively.

Learning Objectives

- 8.a. ☐ Describe a vehicle's anatomy.
- 8.b. List the hazards involved in responding to an emergency scene.
- 8.c. List the hazards to look for when arriving on the scene of a vehicle extrication situation.
- 8.d. Describe cribbing.
- 8.e. Describe the extrication tools that are used for stabilizing, bending, cutting, and disassembling.
- 8.f. Describe how to gain access to a victim of a motor vehicle collision.
- 8.g. Describe how to disentangle a victim of a motor vehicle collision.
- 8.h. Describe how to remove and transport victims of a motor vehicle collision.
- 8.i. Disable the electrical system of a hybrid vehicle.
- 8.j. Perform scene size-up at a motor vehicle crash.
- 8.k. Mitigate the hazards at a motor vehicle crash.
- 8.l. Stabilize a vehicle following a motor vehicle crash.
- 8.m. Break tempered glass.
- 8.n. Gain access to a vehicle following a motor vehicle crash.
- 8.o. Open a vehicle door.
- 8.p. Gain access and provide medical care to a victim in a vehicle.
- 8.q. Displace the dashboard of a vehicle.
- 8.r. Remove the roof of a vehicle.

9. Assist rescue operation teams.

Assessment Strategies

- 9.1. Written Objective Test
- 9.2. Skill Demonstration

Criteria

You will know you are successful when:

- 9.1. Score a minimum of 70%
- 9.2. Complete exam within 90 minutes
- 9.3. Complete exam without using any reference books or notes.
- 9.4. Complete exam at prescribed time and place.
- 9.5. Perform as a team member to establish a barrier to secure a scene safely and effectively.
- 9.6. Perform as a team member to identify and retrieve requested tools safely and effectively.

Learning Objectives

- 9.a. Define the types of special rescues encountered by fire fighters.
- 9.b. Describe the steps of a special rescue.
- 9.c. Describe the general procedures at a special rescue scene.
- 9.d. Establish a barrier.
- 9.e. Retrieve rescue tools

10. Perform a fire safety survey in a private dwelling.

Assessment Strategies

- 10.1. Written Objective Test
- 10.2. Skill Demonstration

Criteria

You will know you are successful when:

- 10.1. Score a minimum of 70%
- 10.2. Complete exam within 90 minutes
- 10.3. Complete exam without using any reference books or notes.
- 10.4. Complete exam at prescribed time and place.
- 10.5. Conduct a fire safety survey of a home of a friend or relative.
- 10.6. Document the fire safety survey on the provided form.
- 10.7. Discuss the findings of the survey with the occupant or owner.
- 10.8. Prepare to discuss your survey with the class.

Learning Objectives

- 10.a. Describe the activities that prevent fires and limit their consequences if fire occurs.
- 10.b. Stress the importance of having portable fire extinguishers.
- 10.c. Recognize hazards during a fire safety survey of an occupied structure.
- 10.d. Complete an occupied structure fire safety survey.
- 10.e. Install and maintain a smoke alarm.

11. Present fire safety information to station visitors or small groups.

Assessment Strategies

- 11.1. Written Objective Test
- 11.2. Skill Demonstration

Criteria

You will know you are successful when:

- 11.1. Score a minimum of 70%
- 11.2. Complete exam within 90 minutes
- 11.3. Complete exam without using any reference books or notes.
- 11.4. Complete exam at prescribed time and place.
- 11.5. Research an assigned topic of fire safety.
- 11.6. Develop an outline and presentation on researched topic.
- 11.7. Conduct a 5-7 minute fire safety presentation for the class.

Learning Objectives

- 11.a. Identify elements of public fire safety education programs covering stop, drop, and roll; exit drills in the home; the selection and use of portable fire extinguishers; and the importance of smoke alarms and residential sprinkler systems in preventing fire deaths.
- 11.b. Explain the importance of residential sprinkler systems in preventing residential fire deaths.
- 11.c. Execute a public fire safety education presentation on exit drills in the home.
- 11.d. Perform a public fire safety education presentation on stop, drop, and roll.
- 11.e. Describe the steps in conducting a fire station tour.
- 11.f. Give a public education tour of a fire station.

12. Prepare a pre-incident survey.

Assessment Strategies

- 12.1. Written Objective Test
- 12.2. Skill Demonstration

Criteria

Performance will be satisfactory when:

- 12.1. Score a minimum of 70%
- 12.2. Complete exam within 90 minutes
- 12.3. Complete exam without using any reference books or notes.
- 12.4. Complete exam at prescribed time and place.
- 12.5. Conduct a pre-incident survey on an assigned facility.
- 12.6. Identify all required information on pre-incident survey form.
- 12.7. Complete pre-incident floor plan drawing including all required information.

Learning Objectives

- 12.a. ☐ Describe why and for which types of properties a preincident plan is created.
- 12.b. List the typical target hazards that may be found in a community.
- 12.c. Describe how a preincident survey is performed.
- 12.d. List the information that is gathered during a preincident survey.
- 12.e. Describe the information included in any sketches or drawings created during the preincident survey.
- 12.f. Describe the symbols commonly used in preincident plans.
- 12.g. Describe how preincident planning for safe and rapid response is performed.
- 12.h. Describe the information that needs to be gathered to assist the incident commander (IC) in making a rapid and correct size-up during an emergency incident.
- 12.i. Explain how to identify built-in fire detection and suppression systems during a preincident survey.
- 12.j. Describe the tactical information that is collected during a preincident survey.

- 12.k. Describe how the sources of water supply for fire suppression operations are identified.
- 12.l. Explain why the locations of utilities are noted on the preincident plan.
- 12.m. Describe how preincident planning for an efficient search and rescue is performed.
- 12.n. Describe how preincident planning for rapid forcible entry is performed.
- 12.o. Describe how preincident planning for safe ladder placement is performed.
- 12.p. Describe how preincident planning for effective ventilation is performed.
- 12.q. List the occupancy considerations to take into account when conducting a preincident survey.
- 12.r. List the types of locations that require special considerations in preplanning.
- 12.s. Conduct a preincident survey.

13. Maintain power plants, power tools and lighting equipment.

Assessment Strategies

- 13.1. Written Objective Test
- 13.2. Skill Demonstration

Criteria

- 13.1. Score a minimum of 70%.
- 13.2. Complete exam within 90 minutes.
- 13.3. Complete exam without using any reference books or notes.
- 13.4. Complete exam at prescribed time and place.
- 13.5. Perform as a team member to conduct a visual inspection on a selected piece of power equipment safely and effectively.
- 13.6. Perform as a team member to conduct an operational inspection on a selected piece of power equipment safely and effectively.
- 13.7. Perform as a team member to return a selected piece of power equipment to a readied state safely and effectively.
- 13.8. Perform as a team member to document a power equipment inspection accurately.

Learning Objectives

- 13.a. Explain how tools and equipment are staged for rapid access.
- 13.b. Describe how to maintain power equipment and power tools.
- 13.c. Perform maintenance on power equipment.

14. Perform an annual service test on fire hose.

Assessment Strategies

- 14.1. Written Objective Test
- 14.2. Skill Demonstration

Criteria

- 14.1. Score a minimum of 70%
- 14.2. Complete exam within 90 minutes
- 14.3. Complete exam without using any reference books or notes.
- 14.4. Complete exam at prescribed time and place.
- 14.5. Perform as a team member to conduct a hose inspection safely and effectively.
- 14.6. Perform as a team member to conduct a service pressure test on hose safely and effectively.
- 14.7. Perform as a team member to document a hose test record accurately and effectively.
- 14.8. Perform as a team member to return fire hose to service on a vehicle or to storage safely and effectively.

Learning Objectives

- 14.a. ☐ Describe how to perform a service test on a fire hose.
- 14.b. List the information that should be noted on a hose record.
- 14.c. Perform an annual service test.