



Western Technical College

## 10503151 Fire Prevention

### Course Outcome Summary

#### Course Information

<b>Description</b>	Provides fundamental information regarding the history and philosophy of fire prevention, organization and operation of a fire prevention bureau, use of fire codes, and identification and correction of fire hazards. Meets all requirements for Fire Inspector 1 certification with the State of Wisconsin.
<b>Career Cluster</b>	Law, Public Safety, Corrections and Security
<b>Instructional Level</b>	Associate Degree Courses
<b>Total Credits</b>	4
<b>Total Hours</b>	72

#### Pre/Corequisites

Prerequisite	10503142 Fire Fighting Principles
Prerequisite	10503193 Fire Protection Systems

#### Textbooks

*Fire Inspector: Principles and Practice - with Navigate 2 Access*. 1st Edition. Revised Copyright 2016. International Association of Fire Chiefs. Publisher: Jones & Bartlett Publishers. **ISBN-13:** 978-1-284-13774-3. Required.

#### Success Abilities

1. Cultivate Passion: Enhance Personal Connections
2. Cultivate Passion: Expand a Growth-Mindset
3. Cultivate Passion: Increase Self-Awareness
4. Live Responsibly: Develop Resilience

5. Live Responsibly: Foster Accountability
6. Refine Professionalism: Act Ethically
7. Refine Professionalism: Improve Critical Thinking
8. Refine Professionalism: Participate Collaboratively
9. Refine Professionalism: Practice Effective Communication

## High Impact Practices

1. Community Based Learning Project: a key learning outcome of this course is to connect academic learning and civic development while simultaneously addressing a community partner's needs, interests, or problems.
2. Work-Based Learning: this course applies your learning to your desired profession by working in industry placements such as internships, practicums, clinicals, or co-ops.

## Course Competencies

### 1. Identify laws, codes, ordinances, and regulations as they relate to fire prevention.

#### Assessment Strategies

- 1.1. Written Objective Test
- 1.2. On-the-job Performance

#### Criteria

- 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. Student participates fully in Inspection preceptorship.
- 1.6. Student completes all preceptorship requirements.
- 1.7. Student completes preceptorship summary.
- 1.8. Student prepares all preceptorship paperwork for state submittal.

#### Learning Objectives

- 1.a. Compare the types of laws at federal, state and local levels that apply to fire and life safety inspections.
- 1.b. Research the authority and powers a fire inspector possesses
- 1.c. Discuss the limitations to the powers possessed by an inspector.
- 1.d. Determine the liabilities fire inspectors face, both civil and criminal for the improper use of their powers and responsibilities.
- 1.e. Explain the following legal terms; Orders, Citations, Compliance/Noncompliance, Litigation and Petition for Variance as they apply to the role of a fire inspector.
- 1.f. Define courtroom behavior and testimony procedure.

### 2. Explain how code enforcement impacts life and property loss.

#### Assessment Strategies

- 2.1. Written Objective Test score at least 70%
- 2.2. On-the-job Performance

#### Criteria

- 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. Student participates fully in Inspection preceptorship.
- 2.6. Student completes all preceptorship requirements.
- 2.7. Student completes preceptorship summary.
- 2.8. Student prepares all preceptorship paperwork for state submittal.

### **Learning Objectives**

- 2.a. Explain how a fire inspection affects citizens and why public relations must be a consideration during an inspection.
- 2.b. Research national standards which have an impact on fire safety.
- 2.c. Research various "Model Codes" which have an impact on fire safety.
- 2.d. Review the International Building Code (IBC), Fire Code (NFPA 1), Life Safety Code, (NFPA 101), which apply to fire inspections, including the written format used for these codes.
- 2.e. Describe three reasons why fire inspectors should be familiar with NFPA Standards.
- 2.f. List NFPA Standards considered most relevant for the fire inspector.

## **3. Define the national fire problem and role of fire prevention.**

### **Assessment Strategies**

- 3.1. Presentation
- 3.2. Written Objective Test
- 3.3. On-the-job Performance

### **Criteria**

- 3.1. Student selects a target audience for a fire safety presentation.
- 3.2. Student prepares an outline for a 10-minute oral presentation with a fire safety theme.
- 3.3. Student delivers a 10-minute oral presentation on fire safety to an outside agency.
- 3.4. Student participates fully in Inspection preceptorship.
- 3.5. Student completes all preceptorship requirements.
- 3.6. Student completes preceptorship summary.
- 3.7. Student prepares all preceptorship paperwork for state submittal.

### **Learning Objectives**

- 3.a. Describe the philosophy behind fire prevention.
- 3.b. Outline a fire inspector's general responsibilities to the community, the fire department, and other government agencies.
- 3.c. List the specific responsibilities a fire inspector must carry out on a regular basis.
- 3.d. Present the role and value of a fire safety public education program.
- 3.e. Describe the various types of target audiences within the community.
- 3.f. Outline effective public education efforts to reach the target audiences.

## **4. Describe fire prevention organizations and associations.**

### **Assessment Strategies**

- 4.1. Written Objective Test
- 4.2. On-the-job Performance

### **Criteria**

- 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. Student participates fully in Inspection preceptorship.
- 4.6. Student completes all preceptorship requirements.
- 4.7. Student completes preceptorship summary.
- 4.8. Student prepares all preceptorship paperwork for state submittal.

### **Learning Objectives**

- 4.a. Compare public and private inspection organizations.
- 4.b. Identify online resources that can be useful in fire prevention.
- 4.c. Identify national organizations that can be helpful to fire prevention.

## **5. Identify the laws, rules, regulations, and codes relevant to fire prevention to the authority having jurisdiction.**

### **Assessment Strategies**

- 5.1. Written Objective Test
- 5.2. On-the-job Performance

### **Criteria**

- 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. Student participates fully in Inspection preceptorship.
- 5.6. Student completes all preceptorship requirements.
- 5.7. Student completes preceptorship summary.
- 5.8. Student prepares all preceptorship paperwork for state submittal.

#### **Learning Objectives**

- 5.a. Describe the importance of written communication in performing the job of fire inspector.
- 5.b. Use various types of written communication required in the performance of the job as fire inspector.
- 5.c. Describe the requirements for the proper maintenance of fire prevention records and reports.
- 5.d. Perform the steps that a fire inspector follows in order to successfully complete an inspection.
- 5.e. Identify fire hazards and the levels of hazards.
- 5.f. Identify the various types of occupancy classification systems used by the IBC/IFC and NFPA 1/101 model codes.
- 5.g. Determine the occupant load requirements established for various occupancies and calculate specific occupant loads for given situations.
- 5.h. Calculate factor for safe egress measures from structures.
- 5.i. Outline the purpose and procedures of proper emergency planning and preparedness relating to fire safety.
- 5.j. Evaluate proper emergency access and accessibility to buildings in the event of fire emergencies.
- 5.k. Describe the general procedures in the development of local ordinances relating to fire safety.

### **6. Define the functions of a fire prevention bureau.**

#### **Assessment Strategies**

- 6.1. Written Objective Test
- 6.2. On-the-job Performance

#### **Criteria**

- 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. Student participates fully in Inspection preceptorship.
- 6.6. Student completes all preceptorship requirements.
- 6.7. Student completes preceptorship summary.
- 6.8. Student prepares all preceptorship paperwork for state submittal.

#### **Learning Objectives**

- 6.a. Define the primary principles of a fire prevention program.
- 6.b. Describe each function of a Fire Prevention Bureau.

### **7. Describe inspection practices and procedures.**

#### **Assessment Strategies**

- 7.1. Written Objective Test
- 7.2. On-the-job Performance

#### **Criteria**

- 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.
- 7.5. Student participates fully in Inspection preceptorship.
- 7.6. Student completes all preceptorship requirements.
- 7.7. Student completes preceptorship summary.
- 7.8. Student prepares all preceptorship paperwork for state submittal.

#### **Learning Objectives**

- 7.a. List the roles a fire inspector plays in the course of their job.
- 7.b. Compare the roles played by a fire inspector on the job.

7.c. Explain the duties of NFPA 1031 Level 1 Inspectors.

**8. Describe the standards for professional qualifications for Fire Marshal, Plans Examiner, Fire Inspector, Fire and Life Safety Educator, and Fire Investigator.**

**Assessment Strategies**

- 8.1. Written Objective Test
- 8.2. On-the-job Performance

**Criteria**

- 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.
- 8.5. Student participates fully in Inspection preceptorship.
- 8.6. Student completes all preceptorship requirements.
- 8.7. Student completes preceptorship summary.
- 8.8. Student prepares all preceptorship paperwork for state submittal.

**Learning Objectives**

- 8.a. List organizations that conduct research in the field of fire prevention.
- 8.b. Discuss ways fire prevention personnel can remain current in a changing field.

**9. Identify opportunities in professional development for fire prevention personnel.**

**10. Describe the history and philosophy of fire prevention.**

**Assessment Strategies**

- 10.1. Written Objective Test
- 10.2. On-the-job Performance

**Criteria**

- 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. Student participates fully in Inspection preceptorship.
- 10.6. Student completes all preceptorship requirements.
- 10.7. Student completes preceptorship summary.
- 10.8. Student prepares all preceptorship paperwork for state submittal.

**Learning Objectives**

- 10.a. Discuss various fires throughout history that have impacted the growth of fire safety.
- 10.b. Explain how fire codes came to be.
- 10.c. Discuss the history of fire and fire prevention in the US.