

Program: **Certificate in Occupational Health & Safety**

Course: **COHS 3330 – Fire Prevention and Protection**

Instructor: **Glyn Jones**

Course Description:

Fires are a major cause of property damage and loss of life. In this course learners will develop an understanding of chemistry of fire, the causes of fire, current methods of fire prevention and protection. The concepts of fire hazard evaluation, control, prevention, reduction, and elimination of fire hazards are reinforced. A major focus in this course is the concept of Life Safety as it relates to fires and the control of damage and loss of life from fires in the workplace

Learning Outcomes:

- Describe the nature and importance of consensus standards as guides to practice for safety professionals;
- Provide a definition of fire;
- Define and explain the fire triangle and fire tetrahedron and be able to explain the significance of each and the differences between them;
- Demonstrate a thorough understanding of the techniques for isolating hazards and properly identifying compatibility issues between various classes of hazardous materials;
- Identify the major components of the fire safety tree;
- Identify the appropriate codes that pertain to buildings in their jurisdiction and shall articulate the role that codes play as a management approach to assuring life safety;
- Understand and articulate the basic principles of fire detection;
- Explain the 3 basic operating features of automatic sprinkler systems and outline the 4 basic types of systems; and

- Demonstrate an understanding of the 3 steps in the emergency planning process.

Course Outline:

Module 1: Introduction to Fire Prevention and Protection

Module 2: Fire Basics

Module 3: Fire Hazard Identification & Evaluation

Module 4: Prevention Planning

Module 5: Prevention Design

Module 6: Fire Protection

Module 7: Emergency Response Preparedness

Academic Requirements:

- 7 module Quizzes worth 80%
- 1 written assignment worth 20%.

Other:

42 hours of contact work

5 BCRSP Points

BCRSP Domain: Fire Prevention and Protection (FPP)