

Course Outline

COURSE: JFT 26B **DIVISION:** 50 **ALSO LISTED AS:**

TERM EFFECTIVE: Fall 2018

Inactive Course

SHORT TITLE: FIRE PREVENTION 1B

LONG TITLE: Fire Prevention 1B Code Enforcement

Units	Number of Weeks		Contact Hours/Week		Total Contact Hours
1	18	Lecture:	.22	Lecture:	3.96
		Lab:	2.1	Lab:	37.8
		Other:	0	Other:	0
		Total:	2.32	Total:	41.76

COURSE DESCRIPTION:

This is a course in relationship of Life Safety Codes and requirements to building construction principles and building occupancy classifications. Curriculum includes fire rated construction; fire doors, windows, and shutters; stairwells and smokeproof enclosures; flame spread, smoke production and interior finish considerations for various occupancies; existing and egress requirements; basic electrical theory, electrical hazards and inspection considerations; basic heat, smoke and flame detection systems; sprinkler and fixed protection systems; municipal/residential alarm systems; fire drills and emergency evacuation procedures; inspection reports and filing techniques; processing of plans and specifications; handling fire prevention complaints. **ADVISORY:** Eligible for English 250 and English 420.

PREREQUISITES:

COREQUISITES:

CREDIT STATUS: D - Credit - Degree Applicable

GRADING MODES

L - Standard Letter Grade

REPEATABILITY: N - Course may not be repeated

SCHEDULE TYPES:

02 - Lecture and/or discussion

03 - Lecture/Laboratory

04 - Laboratory/Studio/Activity

STUDENT LEARNING OUTCOMES:

1. Describe the classification, properties, labeling, incidental storage, handling, and use of flammable and combustible liquids and gases.

Measure: role play, exam

ILO: 1,3

2. Describe the classification, properties, labeling, incidental storage, handling, and use of hazardous materials, other than flammable and combustible liquids and gases.

Measure: exam, role play

ILO: 1,3

3. Analyze the operational readiness of portable fire extinguishers, fixed fire suppression systems, detection and alarm systems, standpipe systems, sprinkler systems and fire pumps in current locations during inspection.

Measure: role play, exam

ILO: 2,3

CONTENT, STUDENT PERFORMANCE OBJECTIVES, OUT-OF-CLASS ASSIGNMENTS

Inactive Course: 04/23/2018

10 Hours

CONTENT:

I. Introduction to Fire Prevention 1B

A. Orientation and Administration

II. Flammable and Combustible Liquids and Gases

A. Flammable and Combustible Liquids Terms and Characteristics

1. Acceptable Containers for Flammable and Combustible Liquids

B. Introduction to Material Safety Data Sheets

C. Flammable and Combustible Liquids Storage

1. Inside Storage of Flammable and Combustible Liquids

2. Outside Storage of Flammable and Combustible Liquids

D. Dispensing, Using, Mixing, and Handling Flammable and Combustible Liquids

E. Compressed, Cryogenic, and Liquefied Gases

1. Properties of Compressed, Cryogenic, and Liquefied Gases

2. Fire Hazards of Compressed and Liquefied Gases

F. Inspecting Procedures

1. Procedures for Inspecting Motor Vehicle Dispensing Stations

2. Procedures for Inspecting LPG Occupancies

3. Procedures for Inspecting Flammable Finish Application Occupancies

Occupancies

G. Methods for Controlling Ignition Sources and Explosive Atmospheres

STUDENT PERFORMANCE OBJECTIVES (SPO): Students will learn the classification, properties, labeling, incidental storage, handling, and use of hazardous materials, other than flammable and combustible liquids and gases through role play exercise.

OUT-OF-CLASS ASSIGNMENTS: reading assignment - Fire Prevention Handouts

8 Hours

4/30/2018

CONTENT:

- III. Hazardous Materials and Explosives
 - A. Sources of Technical Information
 - 1. Terms and Characteristics
 - 2. Regulating Hazardous Materials
 - B. Introduction to Hazardous Materials Management Plan (HMMP)
 - 1. Storage and Transfer Practices of Compressed and Liquefied

Gases

- 2. Hazards of Explosives and Fireworks
- 3. Storage of Hazardous Materials
- C. 3-8 NFPA 704 Identification Systems
 - 1. Classification By Hazard
 - 2. Inspection of The Incidental Use, Handling, and Storage of Hazardous Materials

SPO: Identify proper storage techniques for compressed and liquefied gases.

OUT-OF-CLASS ASSIGNMENTS: reading assignment

8 Hours

CONTENT:

- IV. Portable Fire Extinguishers
 - A. Portable Fire Extinguisher Classifications
 - B. Portable Fire Extinguisher Placement
 - C. Procedures for Inspecting Portable Fire Extinguishers
- V. Fire Suppression Systems
 - A. Fixed Fire Protection Systems
 - B. Procedures for Inspecting
 - 1. Fixed Fire Protection Systems
 - 2. Commercial Cooking Equipment

SPO: Analyze the operational readiness of portable fire extinguishers, fixed fire suppression systems.

OUT-OF-CLASS ASSIGNMENTS: reading assignment

6 Hours

CONTENT:

- VI. Detection and Alarm Systems
 - A. Fire Alarm System Components
 - 1. Terms and Characteristics
 - B. Fire Alarm Signaling System Classifications
 - C. Procedures for Inspecting Fire Alarm Systems
 - D. CFC Requirements for Fire Alarm Systems

SPO: Analyze the operational readiness of alarm systems during class exercises.

OUT-OF-CLASS ASSIGNMENTS: reading assignment

8 Hours

CONTENT:

- VII. Water-Based Fire Protection Systems
 - A. Terms and Characteristics
 - B. Water Supply Systems
 - 1. Sprinkler Systems Benefits

2. Limitations and Design
3. Sprinkler System Components
- C. Procedures
 1. Procedures for Inspecting Sprinkler Systems
 2. Procedures for Conducting Tests on Wet-Pipe Sprinkler Systems
 3. Procedures for Conducting Tests on Dry-Pipe Sprinkler Systems
- D. Standpipe Systems
 1. Characteristics of Standpipe Systems
 2. Procedures for Inspecting Standpipe Systems

SPO: Analyze the operational readiness of standpipe systems, sprinkler systems and fire pumps in current locations during inspection.

OUT-OF-CLASS ASSIGNMENTS:

METHODS OF INSTRUCTION:

Lecture, discussion and demonstrations/simulations will serve as the medium of instruction. Audio-visual aids will be utilized as they facilitate meaningful instruction. Regular assignments will be made for out-of-class study and research. Individual guidance will be provided as required.

METHODS OF EVALUATION:

CATEGORY 1 - The types of writing assignments required:

Percent range of total grade: 20 % to 25 %

Reading Reports

CATEGORY 2 -The problem-solving assignments required:

Percent range of total grade: 40 % to 60 %

Quizzes

Exams

CATEGORY 3 -The types of skill demonstrations required:

Percent range of total grade: 20 % to 30 %

Performance Exams

CATEGORY 4 - The types of objective examinations used in the course:

Percent range of total grade: 25 % to 35 %

Multiple Choice

True/False

Matching Items

REPRESENTATIVE TEXTBOOKS:

ARTICULATION and CERTIFICATE INFORMATION

Associate Degree:

CSU GE:
IGETC:
CSU TRANSFER:
 Transferable CSU, effective 200030
UC TRANSFER:
 Not Transferable

SUPPLEMENTAL DATA:

Basic Skills: N
Classification: Y
Noncredit Category: Y
Cooperative Education:
Program Status: 1 Program Applicable
Special Class Status: N
CAN:
CAN Sequence:
CSU Crosswalk Course Department: JFT
CSU Crosswalk Course Number: 26B
Prior to College Level: Y
Non Credit Enhanced Funding: N
Funding Agency Code: Y
In-Service: N
Occupational Course: C
Maximum Hours:
Minimum Hours:
Course Control Number: CCC000051730
Sports/Physical Education Course: N
Taxonomy of Program: 213300