

FLORIDA STATE COLLEGE AT JACKSONVILLE

COLLEGE CREDIT COURSE OUTLINE

COURSE NUMBER:	FFP 1505
COURSE TITLE:	Fire Prevention Practices
PREREQUISITE(S):	None
COREQUISITE(S):	None
CREDIT HOURS:	3
CONTACT HOURS/WEEK:	3
CONTACT HOUR BREAKDOWN:	
Lecture/Discussion:	3
Laboratory:	
Other _____:	
FACULTY WORKLOAD POINTS:	3
STANDARDIZED CLASS SIZE ALLOCATION:	25

CATALOG COURSE DESCRIPTION:

The course presents the structure and function of the fire prevention organization including the interpretation and application of codes and regulations, a study of the procedures and techniques of fire prevention, including inspection, surveying and mapping, recognition and elimination of fire hazards, the problems of public relations and the coordination with other governmental agencies.

SUGGESTED TEXT(S):	<u>Fire Inspection and Code Enforcement</u> , 6 th Edition, IFSTA
IMPLEMENTATION DATE:	November 14, 1987
REVIEW AND MODIFICATION DATE:	May 1, 1990 Fall Term, 2003 (20041) Fall Term, 2008 (20091) - Outline Review 2007

COURSE TOPICS	<u>CONTACT HOURS PER TOPIC</u>
I. Authority, Responsibilities, and Organization	3
A. Authority	
B. Modification of Requirements, Appeals Procedures and Judicial Review	
C. Responsibility	
D. Types of Law and Permitting Processes	
E. Organizational Structure	
II. Inspection Procedures	3
A. Preparing for an Inspection	
B. Conducting the Inspection	
C. Follow-up Inspections	
D. Maintaining Files and Records	
III. Principles of Combustion and Fire Growth	3
A. The Combustion Process	
B. Factors Affecting Fire Growth and Spread	
IV. Fire Hazards Recognition	3
A. Electricity	
B. Material Storage	
C. Welding and Thermal Cutting	
D. HVAC Systems	
E. Temporary/Portable Heating Equipment	
F. Dust Hazards	
G. Industrial Furnaces and Ovens	
H. Construction/Demolition	
V. Construction and Occupancy Classifications	3
A. Construction Classifications	
B. Occupancy Classifications	
VI. Site Access and Means of Egress	3
A. Maintaining Access for Fire Apparatus and Personnel	
B. Means of Egress	
C. Emergency Planning and Preparedness Procedures	
VII. Water-Based Fire Protection and Water Supply Systems	3
A. Automatic Sprinkler Systems	
B. Standpipe and Hose Systems	

COURSE TOPICS (CONTINUED)

CONTACT HOURS
PER TOPIC

C. Fire Pumps	
D. Water Supply Systems and Water Supply Analysis	
VIII. Portable Fire Extinguishers, Special Agent Fire Extinguishing Systems, and Fire Detection and Alarm Systems	3
A. Portable Fire Extinguishers	
B. Types of Fire Extinguishers	
C. Special Agent Fire Extinguishing Systems	
D. Fire Detection and Alarm Systems	
IX. Plans Review	3
A. Reading Construction Drawings	
B. Architectural Drawings	
X. Identification of Hazardous Materials and Storage, Handling, and Use of Flammable and Combustible Liquids	3
A. Explosives	
B. Compressed and Liquefied Gases	
C. Flammable Solids	
D. Toxic and Highly Toxic Materials	
E. Oxidizers and Organic Peroxides	
F. Radioactive Materials	
G. Corrosive Materials	
H. Other Regulated Materials	
XI. Appendices	3
A. Review of material contained in Appendices A - G	

PROGRAM TITLE: Fire Science Technology
 COURSE TITLE: Fire Prevention Practices
 CIP NUMBER: 0743.020100

LIST PERFORMANCE STANDARD ADDRESSED:

NUMBER(S): TITLE(S):

15.0 FOLLOWING FIRE PREVENTION INSPECTION PRACTICES--The student will be able to:

- 15.01 Demonstrate clear oral expression.
- 15.02 Demonstrate clear written expression.
- 15.03 Demonstrate through application and/or interview, the ability to interact with the public, under conditions of code enforcement or fire prevention duties, with tact, discretion, and without loss of authority.
- 15.04 Identify the organization of the fire department or the entity for which inspection duties will be performed.
- 15.05 Identify the applicable organizational rules and regulations.
- 15.06 Explain the procedures for conducting fire inspections including evaluation of gathered information and report preparation and proper procedure for conducting fire and exit drills in accordance with regulations within the authority having jurisdiction for the following occupancies: (a) assembly, (b) educational, (c) health care, (d) detention and correctional, (e) residential, (f) mercantile, (g) business, (h) industrial, (i) storage, (j) unusual structures, (k) mixed occupancies.
- 15.07 Identify the leading causes of fire as established by the authority having jurisdiction.
- 15.08 Identify the leading cause of fire spread as established by the authority having jurisdiction.
- 15.09 Describe the components and procedures for the development and implementation of a public fire prevention education program.
- 15.10 Define the importance of public relations relative to fire inspection programs.
- 15.11 Define dwelling inspection procedures.
- 15.12 Prepare diagrams or sketches of buildings to record the locations of items of concern during pre-fire planning operations.
- 15.13 Collect and record, in writing, information required for the purpose of preparing a report on a building inspection or survey.
- 15.14 Identify school exit drill procedures.
- 15.15 Identify life safety programs for the home.
- 15.16 Identify the requirements relative to fire drills that may be required within the jurisdiction.
- 15.17 Identify how to conduct and/or evaluate, fire drills in various occupancies.
- 15.18 Identify common fire hazards and make recommendations for their correction.
- 15.19 Write a building inspection report.
- 15.20 Demonstrate accepted filing techniques.
- 15.21 Demonstrate that the fire extinguishers in an inspected premise conform to the fire prevention code.
- 15.22 Identify the procedures to be used whenever fire hazards, or suspected fire hazards, are encountered during inspections.
- 15.23 Identify the procedure for preparing a pre-fire plan.

LIST PERFORMANCE STANDARD ADDRESSED: (continued)

NUMBER(S):

TITLE(S):

- 15.24 Identify the duties and responsibilities of a firefighter assigned to a fire prevention detail in places of public assembly.
- 15.25 Identify the fire exit requirements for different types of occupancies.
- 15.26 Identify the use and operation of various roof vents, both manual and automatic.
- 15.27 Explain the inspection of standpipe systems for fire protection, including visual inspection of hose (if provided), nozzles, hose outlet threads, and fire department connections.
- 15.28 Identify a private water system for fire protection, including fire pumps, yard hydrants, hose houses, gravity and pressure type water storage tanks, reservoirs, and drafting sources.
- 15.29 Identify local and state fire codes concerning subjects to be noted in fire company inspections.
- 15.30 Identify the areas of responsibility of other municipal and state inspection agencies.
- 15.31 Identify the fire hazards commonly found in manufacturing, commercial, residential, and public assembly occupancies.
- 15.32 Identify standard types of chimneys and flues, and recognize deficiencies likely to cause fires.
- 15.33 Identify and define fire spread through air conditioning and utility ducts and the functions of automatic and manual controls of these systems.
- 15.34 Identify local code requirements covering the proper storage and use of flammable liquids and gases.
- 15.35 Identify storage codes and practices contributing to fire safety in buildings, including proper piling, aisles, clearances, access to fire equipment and exits.
- 15.36 Identify proper outside storage and how it affects fire fighting, including aisles, roadways, access to hydrants, access to buildings, and exposure hazards.
- 15.37 Identify water and smoke damage potential to goods, to office and manufacturing machinery, and other valuable objects.
- 15.37 Demonstrate the procedures for the inspection of stationary fire pumps according to the authority having jurisdiction
- 15.38 Identify the special extinguishing systems within the authority having jurisdiction and demonstrate the procedures for the inspection of the systems.
- 15.39 Identify and describe the operating principles of special fixed extinguishing systems, fire detection systems, and special communications systems as defined by the NFPA.
- 15.41 Define the legally established responsibilities and empowerment related to the performance of the inspector's duties.
- 15.42 Define the established appeals procedure and judicial review process for the jurisdiction of which the inspector is employed.
- 15.43 Identify other agencies that may be referred to for assistance in correcting hazards.
- 15.44 Identify other jurisdictional authorities that may be authorized, to conduct inspections involving life safety or fire protection.
- 15.45 Explain corrective procedures for fire hazards discovered during fire inspections.
- 15.46 Identify how to operate the essential equipment necessary to accomplish code enforcement including, but not limited to, basic photographic equipment and portable flammable and combustible atmosphere detection equipment.
- 15.47 Identify procedures required for the processing of plans and specifications.

18.0 IDENTIFY FIRE PROTECTION ORGANIZATIONS--The student will be able to:

- 18.01 Identify the public and private national organizations that support the fire protection services, and describe the functions of each.

LIST PERFORMANCE STANDARD ADDRESSED: (continued)

NUMBER(S): TITLE(S):

- 18.02 Identify the public and private state organizations that support the fire protection services, and describe the functions of each.
- 18.03 Identify the public and private local organizations that support the fire protection services, and describe the functions of each.