



COURSE INFORMATION AND REQUIRED MATERIALS

Course: Fire Prevention 1: Fire and Life Safety Inspections for the Company Officer (2011) CFSTES
Hours: 32 (29:30 Instruction/2:30 Testing)
Designed For: The entry-level Company Officer
Description: Upon completion of this course, the student will have a basic knowledge of the Company Officer certification track and Capstone Task Book process. The student will also be equipped with knowledge and skills related to the Company Officer's role in fire prevention, the relationship between life safety and building construction, the elements of a quality company inspection program, and how to address complex hazards encountered during an inspection.
Prerequisites: None
Certification: Company Officer
Passing Rate: Minimum 80%
Class Size: 40
Restrictions: None

REQUIRED STUDENT MATERIALS	EDITION	PUBLISHER
California Fire Inspector's Guide	Current	CFCA
Fire Prevention Applications for the Company Officer	First	FPP
REQUIRED INSTRUCTOR MATERIALS		
California Fire Inspector's Guide	Current	CFCA
Fire Prevention Applications for the Company Officer	First	FPP
Fire Prevention Applications for the Company Officer Resource Kit	First	FPP
Prevention 1 instructor materials	Current	SFT

PUBLISHER CONTACT INFORMATION		
CFCA	California Fire Chief's Association Bookstore (800-733-2314)	www.calchiefs.org
FPP	Fire Protection Publications (800-654-4055)	www.ifsta.org
SFT	Instructor's Corner	http://osfm.fire.ca.gov/training/instructorscorner.php

PREVENTION 1 COURSE PLAN

Unit 1: Course Introduction (1:00)

Topic 1-1: Orientation and Administration 0:30

Terminal Learning Objective (TLO): At the end of this topic, the student will be able to identify the classroom and facility requirements along with the course completion requirements.

Enabling Learning Objectives (ELO):

1. Identify facility and classroom requirements
 - Start and end times
 - Breaks
 - Restrooms
 - Food locations
 - Smoking locations
 - Emergency procedures
 - Electronic devices
 - Special needs and accommodations
 - Other requirements
2. Review the course syllabus
 - Course objectives
 - Calendar of events
 - Course requirements
 - Student evaluation process (80% is required on the summative test)
 - Assignments and activities
 - Required student resources



COURSE INFORMATION AND REQUIRED MATERIALS

PREVENTION 1 COURSE PLAN

- Class participation requirements

Discussion Questions

1. What are formative and summative tests?

Activities

1. To be determined by the instructor

Topic 1-2: Company Officer Certification Process..... 0:30

Terminal Learning Objective (TLO): At the end of this topic, the student will be able to describe certification levels within the Company Officer certification track, identify courses required for each certification level, and describe the capstone task book completion process.

Enabling Learning Objectives (ELO):

1. Describe the different levels of certification within the Company Officer certification track
2. Identify the courses required at each certification level
3. Describe the Capstone Task Book process

Discussion Questions

1. What are the certification levels within the Company Officer certification track?

Activities

1. To be determined by the instructor

Unit 2: The Company Officer's Role in Fire Prevention (7:30)

Topic 2-1: Relationship Between Historic and Current Fire Problems (CTS 4-1)..... 2:00

Terminal Learning Objective (TLO): At the end of this topic, the student will be able to describe the purpose and value of a company inspection; describe opportunities that a Company Officer has to engage property owners and tenants to improve fire and life safety; and analyze significant-loss fires where a company inspection could have had an impact.

Enabling Learning Objectives (ELO):

1. Describe the purpose and value of a company inspection
 - Prefire evaluation
 - Identify hazards
 - Risk reduction (for civilian and firefighter safety)
 - 16 Firefighter Life Safety Initiatives (National Fallen Firefighters Foundation)
 - Community relations
 - Cost recovery
 - Liability
2. Describe opportunities that a Company Officer has to engage property owners and tenants to improve fire and life safety
 - Discuss mitigations options
 - Require correction action
 - Behavior modification
3. Analyze significant-loss fires where a company inspection could have had an impact

Discussion Questions

1. Given the lessons learned from historic fires, why do situations like the Station Nightclub Fire (Rhode Island, 2003) continue to occur?
2. What occupancy in your jurisdiction worries you the most? What suppression challenges does this occupancy pose? How can risk reduction make a difference in that occupancy?

Activities

1. Activity 2-1: Relationship Between Historic and Modern Fire Problems (Developed by State Fire Training)



COURSE INFORMATION AND REQUIRED MATERIALS

PREVENTION 1 COURSE PLAN

Topic 2-2: National Fire Incident Reporting System (CTS 4-7) 0:30

Terminal Learning Objective (TLO): At the end of this topic, the student will be able describe the National Fire Incident Reporting System (NFIRS) and the California Incident Reporting System (CAIRS), and identify the need for NFIRS reporting.

Enabling Learning Objectives (ELO):

1. Describe the National Fire Incident Reporting System
2. Describe the California Incident Reporting System
3. Identify the need for and benefits of NFIRS reporting
 - U.S. Fire Administration reports
 - Data collection for risk analysis
 - Reporting tied to grant distribution and FEMA funding

Discussion Questions

1. What is the importance of writing accurate NFIRS reports?
2. How would you affect change to improve NFIRS report deficiencies?

Activities

1. Using U.S. Fire Administration civilian fatality reports from the last 10 years identify trends that company inspections could address to reduce loss of life. (Instructor to develop)

Topic 2-3: Community Risk Analysis (CTS 4-1) 0:30

Terminal Learning Objective (TLO): At the end of this topic, the student will be able to describe the components of a community risk analysis; the Company Officer's role in a community risk analysis; and the community risk analysis' relation to civilian casualties, firefighter casualties, and property loss.

Enabling Learning Objectives (ELO):

1. Describe the components of a community risk analysis
 - Scoping and screening
 - Event identification
 - Frequency analysis
 - Consequence analysis
 - Risk estimation
 - Risk control and decision point
 - Monitoring performance
2. Describe the Company Officer's role in community risk analysis
 - Short-term feedback (impacts frequency analysis)
 - Long-term feedback (impacts scope and screening)
3. Describe the community risk analysis' relation to
 - Civilian casualties
 - Firefighter casualties
 - Property loss

Discussion Questions

1. How can a good community risk analysis reduce the number of non-mandatory inspections in your jurisdiction?

Activities

1. To be determined by instructor.

Topic 2-4: Basic Elements of Fire and Life Safety Education and Public Relations (CTS 4-1) 2:00

Terminal Learning Objective (TLO): At the end of this topic, the student will be able to describe fire and life safety education programs, presentation methods for various activities, and the five-step public education process.

Enabling Learning Objectives (ELO):

1. Describe fire and life safety education programs



COURSE INFORMATION AND REQUIRED MATERIALS

PREVENTION 1 COURSE PLAN

- Risk reduction programs
 - Multicultural programs
 - School programs
 - Senior programs
2. Describe presentation methods for various activities
 - News affiliates
 - Printed press
 - Schools
 - Neighborhood associations
 - Housing authorities
 - Grant providing entities
 - Restaurants
 - Grocery stores (particularly chains)
 - Chambers of commerce
 - Economic development programs
 - Libraries
 - Civic groups
 - Adult literacy programs
 3. Describe the five-step public education process
 - Identification
 - Selection
 - Design
 - Implementation
 - Evaluation

Discussion Questions

1. How does fire and life safety education impact fire department operations?
2. What prevention programs currently exist in your jurisdiction?

Activities

1. Divide the students into groups and assign each group a specific occupancy. Have each group apply risk analysis to the five-step public education planning process for its assigned occupancy. (Instructor to develop)

Topic 2-5: Using The *California Fire Inspector's Guide* (CTS 4-1)..... 1:00

Terminal Learning Objective (TLO): At the end of this topic, the student will be able to identify the purpose of and sources for the *California Fire Inspector's Guide* and describe various permit types, abbreviations and definitions, and the layout and format of occupancy requirements.

Enabling Learning Objectives (ELO):

1. Identify the purpose of the *California Fire Inspector's Guide*
2. Identify the sources for the *California Fire Inspector's Guide*
 - Current California Fire Code and Building Code
 - CCR Title 19
 - Other state laws
3. Describe the various types of permits
 - Permit issuance
 - Types of permits
 - Operational
 - Construction
4. Describe abbreviations and definitions used in the *California Fire Inspector's Guide*
 - Typical abbreviations



COURSE INFORMATION AND REQUIRED MATERIALS

PREVENTION 1 COURSE PLAN

- Classes of flammable and combustible liquids
 - Occupancy classifications
 - Construction types
5. Describe the layout and format of different occupancy requirements
- Occupancy descriptions
 - Fire extinguisher requirements
 - Means of egress requirements
 - Housekeeping requirements
 - Electronic requirements
 - Flammable liquids
 - Miscellaneous requirements
 - Cooking equipment
 - Fire apparatus access
 - Address identification

Discussion Questions

1. What issues might you come across that might not be addressed by the *California Fire Inspector's Guide*?

Activities

1. Activity 2-5: Introduction to the *California Fire Inspector's Guide* (Developed by State Fire Training)

Topic 2-6: Authority and Responsibility for Company Inspections and Related Activities (CTS 4-1) 1:30

Terminal Learning Objective (TLO): At the end of this topic, the student will be able to describe the California statutes, California Code of Regulations, local codes and ordinances, international codes, and national standards that give a Company Officer authority to conduct inspections, and the responsibilities of a Company Office conducting inspections.

Enabling Learning Objectives (ELO):

1. Describe California statutes
 - Health and Safety Code
 - Public Resources Code
2. Describe the California Code of Regulations
 - Title 19: Public Safety
 - Title 24, Part 2: California Building Standards Code
 - Title 24, Part 9: California Fire Code
3. Describe local codes and ordinances that affect fire prevention activities
4. Describe the International Code Council
5. Describe national standards used in prevention
 - NFPA 10
 - NFPA 25
 - NFPA 72
6. Describe the responsibilities of a Company Officer conducting inspections
 - Conduct the inspection
 - Document findings
 - Communicate the findings to responsible party
 - Take action to correct or mitigate the violation
 - Follow up

Discussion Questions

1. From where does a Company Officer get the authority to conduct inspections?
2. What is the difference between a code and a standard?
3. What are some local regulations in your jurisdiction that you use in the course of your duties?

Activities

1. To be determined by instructor.



COURSE INFORMATION AND REQUIRED MATERIALS

PREVENTION 1 COURSE PLAN

Unit 3: Relationship Between Life Safety and Building Construction (5:00)

Topic 3-1: Occupancy Classifications and Related Hazards (CTS 4-2) 2:00

Terminal Learning Objective (TLO): At the end of this topic, the student will be able to identify occupancy classifications, target hazards, and potential hazards associated with each occupancy classification, and describe how to handle structures with mixed use occupancies.

Enabling Learning Objectives (ELO):

1. Identify occupancy classifications
 - Assembly
 - Business
 - Education
 - Factory/industrial
 - Institutional (care and detention)
 - Mercantile
 - Residential
 - Storage
 - Utility/miscellaneous
2. Describe how to handle structures with mixed use occupancies
 - Most restrictive requirements
 - Incidental use
 - Required separations
3. Identify potential hazards associated with each occupancy classification
 - Extinguishers
 - Means of egress
 - Housekeeping
 - Electrical
 - Miscellaneous
4. Identify target hazards
 - Amusement buildings
 - Atriums
 - Care facilities
 - Covered malls
 - High-piled storage
 - High-rise buildings

Discussion Questions

1. What is the difference between occupancy and use?
2. What are the implications of a change in occupancy use?
3. What would you do if you discovered a change in occupancy use during an inspection?

Activities

1. Using pictures of different occupancy uses have students determine (size up) occupancy, use, and potential hazards. (Instructor to develop)

Topic 3-2: Building Construction Types and Fire Behavior (CTS 4-3) 1:00

Terminal Learning Objective (TLO): At the end of this topic, the student will be able to identify building construction types and describe fire behavior associated with different types of building construction.

Enabling Learning Objectives (ELO):

1. Identify building construction types
 - Types I-V
 - Fire-resistive rated
 - Nonfire-resistive rated



COURSE INFORMATION AND REQUIRED MATERIALS

PREVENTION 1 COURSE PLAN

2. Describe fire behavior associated with different types of building construction
 - Fire separation
 - Building height and area
 - Occupancy

Discussion Questions

1. How does a building's occupancy impact building construction type?
2. How does a building's size impact fire behavior?

Activities

1. Have students identify past fires that were impacted by building construction. (Instructor to develop)

Topic 3-3: Developing a Preincident Plan (CTS 4-4) 2:00

Terminal Learning Objective (TLO): At the end of this topic, the student will be able to describe the purpose of preincident planning and the preincident planning process.

Enabling Learning Objectives (ELO):

1. Describe the purpose of preincident planning
2. Describe the preincident planning process
 - Identify facilities and buildings
 - Conduct a preincident survey
 - Manage preincident data
3. Describe the preincident survey process
 - Prepare for a preincident survey
 - Conduct a preincident survey
 - Preincident survey drawings and symbols
 - Written reports and documentation
4. Describe the process to follow when a preincident survey reveals a fire code violation

Discussion Questions

1. How can preincident planning help you identify hazards related to building construction?
2. What conditions can you identify during a company inspection to improve decision making on the fireground?
3. Why is preincident knowledge so important?

Activities

1. Develop a preincident plan that includes:
 - Building construction
 - Facility drawings
 - Fire protection systems and features
 - Fuel loading
 - Special hazards and safety concerns
 - Utility control locations
 - Ventilation systems
 - Water supplies(Instructor to develop)

Unit 4: Elements of a Company Inspection Program (11:30)

Topic 4-1: Importance of Conducting a Fire Inspection (CTS 4-7)..... 0:30

Terminal Learning Objective (TLO): At the end of this topic, the student will be able to identify the three goals of a company inspection and describe how inspection goals relate to suppression operations and issues that arise from inconsistent inspections.

Enabling Learning Objectives (ELO):

1. Identify the three goals of a company inspection
 - The building is safer than when the officer arrived



COURSE INFORMATION AND REQUIRED MATERIALS

PREVENTION 1 COURSE PLAN

- Ensuring the building is in compliance with adopted codes
- Educating or increasing the public awareness about fire safety practices
- 2. Describe how inspection goals relate to suppression operations
 - Life safety
 - Property protection
 - Business continuity
 - Environmental protection
- 3. Describe issues that arise from inconsistent inspections
 - Confusion about requirements between inspectors and business owners
 - Unabated hazards
 - Differences between a company inspection and a preincident survey

Discussion Questions

1. How can an inspection program reduce Line of Duty Deaths (LODD)?
2. How are suppression operation goals and company inspection program goals similar? How are they different?

Activities

1. To be determined by instructor.

Topic 4-2: Code Enforcement and Appeal Process (CTS 4-7) 1:00

Terminal Learning Objective (TLO): At the end of this topic, the student will be able to describe the role of the Company Officer in regards to code enforcement and the code enforcement appeal process.

Enabling Learning Objectives (ELO):

1. Describe the role of the Company Officer in regards to code enforcement
 - Identify code violations
 - Determine violation severity
 - Routine
 - Imminent
 - Transient
 - Initiate compliance process
 - Voluntary
 - Legal
2. Describe the code enforcement appeal process
 - Appeal the findings within the fire department up to and including the fire code official
 - Petition of the fire code official through the appeal process

Discussion Questions

1. How would you gain compliance for a routine violation in a mercantile occupancy?
2. What actions would you take if the responsible party had not complied upon reinspection?
3. What actions would you take if the responsible party refused to comply?
4. What factors prevent Company Officers from enforcing code violations?

Activities

1. Activity 4-2: Code Enforcement Violation Rating (Developed by State Fire Training)

Topic 4-3: Conducting a Company Fire Inspection (CTS 4-7) 1:30

Terminal Learning Objective (TLO): At the end of this topic, the student will be able to identify required documentation for, prepare for, and conduct a company inspection.

Enabling Learning Objectives (ELO):

1. Describe the preparation necessary to conduct a company inspection
 - Coordinate with the Fire Prevention Bureau
 - Review prior inspections, violations, and compliance
 - Review applicable site-specific code requirements



COURSE INFORMATION AND REQUIRED MATERIALS

PREVENTION 1 COURSE PLAN

- Review existing preincident plan
 - Gather inspection notices and checklists
 - Gather *California Fire Inspector's Guide*
 - Make an appointment (if necessary)
 - Gather equipment
 - Review professional appearance and proper identification
2. Describe the various methods of communication for inspection compliance
 - Interpersonal skills
 - Listening skills
 - Elements of the communication model
 - Nonverbal communication
 3. Identify basic equipment and materials needed for an inspection
 4. Describe how to conduct a company inspection
 - Meet with responsible representative
 - Introductions
 - State inspection purpose
 - Gain voluntary entry
 - If responsible party denies entry, introduce the Fire Prevention for Inspection Warrant Process
 - Verify a preincident plan
 - Verify occupancy type
 - Determine if there is an obvious change in use or occupancy
 - Inspect the building in an orderly manner (systematic approach)
 - Verify operational permits
 - Review inspection findings and compliance requirements with responsible representative (educate in area of fire and life safety)
 - Schedule reinspections when necessary
 - Deal with immediate hazards
 5. Identify required documentation
 - Department-approved inspection notice
 - Document:
 - Address of inspection premise
 - Date inspected
 - Observed violations
 - Corrective actions
 - Time allowed for compliance
 - Code sections, if applicable
 - Name, shift, and station of fire department member conducting the inspection
 - Use clear handwriting, proper grammar, and correct spelling
 - Identify penalties for failure to correct, and verbally review this with responsible representative
 - Big picture:
 - Others will read and use the document
 - The initial inspection can become part of the legal process

Discussion Questions

1. How does the *See vs. City of Seattle* decision in the U.S. Supreme Court (1967) impact inspections today?
2. What is a professional appearance?
3. What are the benefits and drawbacks of making an inspection appointment?
4. How do you respond to a business owner when asked why a previous inspector did not enforce a violation?
5. How do you deal with a technical question that you cannot answer?

Activities

1. To be determined by instructor.



COURSE INFORMATION AND REQUIRED MATERIALS

PREVENTION 1 COURSE PLAN

Topic 4-4: Fire Inspection Records, Reports, and Forms (CTS 4-7) 0:30

Terminal Learning Objective (TLO): At the end of this topic, the student will be able to identify the need for data and the importance of qualitative information, legal documentation requirements, narrative requirements, and correction plans.

Enabling Learning Objectives (ELO):

1. Identify the need for data and the importance of qualitative information
 - Trends
 - Legal means of accountability
2. Identify legal documentation requirements
 - Authority
 - Violation
 - Description of hazard and mitigation
 - Location
 - Disposition of hazard
 - Code name and year
 - Code section number
 - Signature of reporting party
 - Right to appeal
3. Identify narrative requirements
4. Identify plan of correction
 - Request for plan of correction
 - Schedule follow-up inspection

Discussion Questions

1. What is the advantage of a checklist? What are the disadvantages?
2. Why should you document all violations in writing, even if they are corrected immediately?
3. Why are clear supporting policies about documentation important?

Activities

1. To be determined by instructor.

Topic 4-5: Inspecting the Exterior of a Structure (CTS 4-5)..... 1:00

Terminal Learning Objective (TLO): At the end of this topic, the student will be able to inspect occupancy access and egress, inspect for hazards with flammable liquids and compressed gases, inspect exterior hazards, and describe how to store and dispose of fuels, ashes, and coals.

Enabling Learning Objectives (ELO):

1. Describe how to inspect occupancy access and egress
 - Verify approved fire department access
 - Keys
 - Switches
 - Access codes
 - Identified and maintained fire lanes
 - Visible and legible address numbers
 - Exit discharge
 - Apparatus access
2. Describe how to inspect for hazards with flammable liquids and compressed gases
 - Flammable liquid storage cabinets or reduced storage
 - Flammable liquids stored away from exits, stairs, or corridors
 - Identified and secured compressed gas cylinders
 - Lids on flammable liquid storage containers not in immediate use
 - Spilled flammable liquids



COURSE INFORMATION AND REQUIRED MATERIALS

PREVENTION 1 COURSE PLAN

3. Describe how to inspect exterior hazards
 - Clearance between a dumpster and combustible walls, eaves, or openings
 - Clearance between occupancy and combustible vegetation
 - Clearance from egress points
 - Clearance to adjoining occupancies
 - Fire breaks
 - Weed abatement
 - Waste on the premises
4. Describe the storage and disposal of fuels, ashes, and coals

Discussion Questions

1. What items should be inspected on the exterior of a structure related to access and egress?
2. What type of operations on the outside of a building can impact the fire and life safety of individuals inside the building?

Activities

1. To be determined by instructor.

Topic 4-6: Inspecting the Interior of a Structure (CTS 4-7) 3:00

Terminal Learning Objective (TLO): At the end of this topic, the student will be able to inspect occupancy egress, fire separation hazards, electrical hazards, hazards with flammable liquids and compressed gases, housekeeping conditions, and cooking equipment.

Enabling Learning Objectives (ELO):

1. Describe how to inspect occupancy egress
 - Means of egress system
 - Occupancy load signs
 - Appropriate number of exits
 - Exit door opens without a key or special knowledge
 - Locked/latched doors with panic hardware
 - Main exit sign/emergency lighting
 - Non-operable exit door hardware
 - Obstructed exits, doors, aisles, corridors, and stairways
 - Door swing and operation
 - Sign over main exit door
 - Storage in unprotected stairway
2. Describe how to inspect fire separation hazards
 - Attic access
 - Scuttle openings closed
 - Fire walls and fire barriers
 - Maintained self- or automatic-closing fire-rated assemblies
 - Penetration in fire-resistive construction
3. Describe how to inspect electrical hazards
 - Clear space to electrical panels
 - Cover plates for all junction boxes
 - Covers and spacers for electrical panels
 - Exposed wiring and splices
 - Extension cords, overloaded outlets, and grounding
 - Over-current protection
 - Permanent wiring for fixed and stationary appliances
4. Describe how to inspect for hazards with flammable liquids and compressed gases
 - Flammable liquid storage cabinets or reduced storage



COURSE INFORMATION AND REQUIRED MATERIALS

PREVENTION 1 COURSE PLAN

- Flammable liquids stored away from exits, stairs, or corridors
 - Identified and secured compressed gas cylinders
 - Lids on flammable liquid storage containers not in immediate use
 - Spilled flammable liquids
5. Describe how to inspect housekeeping conditions
- Combustible storage from boiler, mechanical, and electrical room
 - Lint/debris behind washers and dryers, and inside ducts
 - Metal or approved noncombustible trash container with self-closing lid
 - Storage arranged to provide egress
 - Storage distance between ceiling and sprinkler heads
 - Waste on the premises
6. Describe how to inspect cooking equipment
- Defective and/or dirty plenums, vents, flues, or chimneys
 - Excessive grease (storing and removing)
 - Overheated equipment

Discussion Questions

1. What items should be inspected on the interior of a structure related to access and egress?
2. How would you enforce transient violations in a large retail establishment?

Activities

1. Activity 4-6: Performing Interior Company Inspections (Developed by State Fire Training)

Topic 4-7: Inspecting Fire Alarm Detection and Notification Systems (CTS 4-3) 1:00

Terminal Learning Objective (TLO): At the end of this topic, the student will be able to describe fire alarm detection and notification system types, features, and smoke and fire control features, and inspect fire alarm systems.

Enabling Learning Objectives (ELO):

1. Identify types of fire alarm detection and notification systems
 - Manual
 - Automatic
 - Combination
 - Audio
 - Visual
 - Voice
2. Identify fire alarm and detection and notification system features
 - Fire alarm control unit
 - Normal
 - Alarm
 - Supervisory
 - Trouble
 - Annunciator panel
 - Initiating devices
 - Visual and audio notification devices
3. Identify smoke and fire control features
 - Alarm-activated smoke control
 - Ventilation systems
 - Fire doors
4. Describe how to inspect fire alarm systems
 - Operable
 - Serviced



COURSE INFORMATION AND REQUIRED MATERIALS

PREVENTION 1 COURSE PLAN

- Maintained

Discussion Questions

1. What action should a Company Officer take if an inspection reveals an inoperable alarm?
2. How could a supervisory alarm affect operations of a fire protection system?

Activities

1. To be determined by instructor.

Topic 4-8: Inspecting Fire Protection Systems and Equipment (CTS 4-7) 1:00

Terminal Learning Objective (TLO): At the end of this topic, the student will be able to inspect fire extinguishers, fire protection systems, and cooking equipment.

Enabling Learning Objectives (ELO):

1. Describe how to inspect fire extinguishers
 - Verify extinguisher placement and operability
2. Describe how to inspect fire protection systems
 - Certification test for sprinkler/standpipe system
 - Control valves secured in open position
 - Serviced and maintained sprinkler heads and fire department connection caps including
 - Spare sprinkler heads
 - Appropriate signage
 - Compatible wrenches
 - Serviced and maintained sprinklers, standpipes, hydrants, fire department connections, and post indicator valves
 - Sprinkler coverage in unprotected areas
 - Non-permitted construction
 - Small room rule
 - Electrical vaults
 - Minimum clearance for access/use of fire appliances and equipment
 - Serviced and maintained (records and tags) hood and duct fire suppression systems and associated portable Type K fire extinguishers
 - Verify appliance coverage
3. Describe how to inspect cooking equipment
 - Serviced and maintained suppression system
 - Proper placement
 - Special portable fire extinguisher requirements

Discussion Questions

1. What is the timeframe for a current service tag on a sprinkler system?
2. What is the timeframe for a current service tag for a hood extinguishing system?
3. When should a brand new extinguisher be tagged?

Activities

1. To be determined by instructor.

Topic 4-9: Construction Features that Affect Fire, Heat, and Smoke Spread in a Building (CTS 4-3) 1:00

Terminal Learning Objective (TLO): At the end of this topic, the student will be able to identify construction features designed to limit fire, heat, and smoke spread.

Enabling Learning Objectives (ELO):

1. Identify construction features designed to limit fire, heat, and smoke spread
 - Fire walls
 - Fire barriers
 - Fire partitions
 - Fire doors



COURSE INFORMATION AND REQUIRED MATERIALS

PREVENTION 1 COURSE PLAN

- Vertical openings
- Interior finishes
- Roofing
- Draft stops and smoke vents

Discussion Questions

1. What are some typical violations related to construction features designed to limit fire spread?

Activities

1. To be determined by instructor.

Topic 4-10: Inspection Follow-up Procedures (CTS 4-7) 0:30

Terminal Learning Objective (TLO): At the end of this topic, the student will be able to correct fire hazards and code violations, and describe follow-up documentation and the procedures for Failure to Comply.

Enabling Learning Objectives (ELO):

1. Describe the process of correcting fire hazards/code violations
 - Establish reinspection date and time based on the hazard level
 - Primarily outstanding violations
 - Discovery of a new violation
 - Procedures for partial compliance
2. Describe follow-up documentation
 - Inspection forms
 - Emails
 - Faxes or scans
3. Describe procedures for Failure to Comply
 - Explain potential criminal/civil penalties/liabilities
 - Closure until mitigated/in compliance
 - Rights of appeal/appeal process
 - Refer to Fire Prevention Office (bureau/division) for further resolution/action

Discussion Questions

1. What would be an acceptable response for failure to comply with servicing a fire extinguisher?
2. What liabilities does the fire department carry for failure to do a follow up inspection?

Activities

1. To be determined by instructor.

Topic 4-11: Standby Life Safety Duty (CTS 4-7) 0:30

Terminal Learning Objective (TLO): At the end of this topic, the student will be able to describe situations that require fire watch, fire watch duties, and documentation associated with standby life safety duties.

Enabling Learning Objectives (ELO):

1. Describe the situations that require a fire watch
 - Impairments
 - Special events
2. Describe fire watch duties
 - Fire protection system activation
 - Fire department notification
 - Evacuation
 - Occupant load enforcement
 - Extinguish fires
3. Describe documentation associated with standby life safety duties
 - Record keeping
 - Permits



COURSE INFORMATION AND REQUIRED MATERIALS

PREVENTION 1 COURSE PLAN

- Insurance

Discussion Questions

1. How would you have handled the Station Nightclub Fire (Rhode Island, 2003) if you were doing standby?
2. What ethical issues may arise during standby life safety duties?

Activities

1. To be determined by instructor.

Unit 5: Complex Hazards (4:30)

Topic 5-1: Complex Hazards and Fire Safety Requirements 2:00

Terminal Learning Objective (TLO): At the end of this topic, the student will be able to identify complex hazards and fire safety requirements associated with storage facilities, high-heat-producing equipment, tents and membrane structures, hazardous processes, and fuel dispensing.

Enabling Learning Objectives (ELO):

1. Identify complex hazards and fire safety requirements associated with storage facilities
 - Bulk
 - High-piled
 - Palletized
 - Tire
 - Waste handling
2. Identify complex hazards and fire safety requirements related to high-heat-producing equipment
 - Incinerators
 - Boilers
 - Heating equipment
 - Industrial furnaces and ovens
3. Identify complex hazards and fire safety requirements related to tents and membrane structures
 - Cooking equipment
 - Vehicles
 - Generators
 - Heaters
 - Combustible decorations
4. Identify complex hazards and fire safety requirements related to hazardous processes
 - Verify fire code permit
5. Identify complex hazards and fire safety requirements related to fuel dispensing
 - Motor vehicle
 - Piers
 - Aircraft

Discussion Questions

1. What are some unique fuel dispensing facilities or locations in your jurisdiction?
2. Why do some Company Officers avoid doing complex hazard inspections?

Activities

1. To be determined by instructor.

Topic 5-2: Hazardous Materials 1:00

Terminal Learning Objective (TLO): At the end of this topic, the student will be able to describe required documentation for storing hazardous materials; hazardous materials markings, labels, and placards; and hazardous materials storage, handling, and use considerations.

Enabling Learning Objectives (ELO):

1. Describe required documentation for storing hazardous materials
 - Hazardous Materials Inventory Sheets (HMIS)
 - Material Safety Data Sheets (MSDS)



COURSE INFORMATION AND REQUIRED MATERIALS

PREVENTION 1 COURSE PLAN

- Permits
- 2. Describe hazardous materials markings, labels, and placards
 - Legibility
 - Visibility
 - NFPA 704
- 3. Describe hazardous materials storage, handling, and use considerations
 - Acceptable containers
 - Maximum Allowable Quantities (MAQ) for occupancy type
 - Compressed gas cylinder safety
 - Ignition hazards
 - Location
 - Secondary containment
 - Separation of incompatibles
 - Storage cabinets
 - Ventilation

Discussion Questions

1. What tools are available to you to resolve questions or issues related to hazardous materials during an inspection?
2. How does the presence of hazardous materials in any occupancy change a company inspection?
3. Which occupancies are allowed to store hazardous materials?

Activities

1. To be determined by instructor.

Topic 5-3: Inspections in the Wildland Urban Interface Environment..... 1:30

Terminal Learning Objective (TLO): At the end of this topic, the student will be able to define the term wildland urban interface; identify wildfire causes, threats, and risks; and describe risk factors associated with WUI incidents, fire and life safety education and prevention tools suited to the WUI environment, and the California requirements for WUI fire areas.

Enabling Learning Objectives (ELO):

1. Define wildland urban interface (WUI)
2. Identify current threats and risks
 - Interface mix
 - Occluded interface mix
 - Classic interface
3. Identify wildfire causes
 - Climate
 - Topography
 - Geography
 - Vegetation
 - Animal life
 - Pollution
4. Describe the risk factors associated with WUI incidents
 - High intensity wildland fires
 - Drain on federal resources
 - Fire prevention measures difficult to implement
5. Describe the fire and life safety education and prevention tools suited to the WUI environment
6. Describe the California requirements for WUI fire areas
 - Fire protection plans
 - Fire hazard severity zones
 - Local agency very high fire hazard severity zone



COURSE INFORMATION AND REQUIRED MATERIALS

PREVENTION 1 COURSE PLAN

- State Responsibility Area (SRA)
- Wildfire exposure
- WUI fire area
- Local regulations and standards
- Vegetation management
 - Fuel modification zones
- Defensible space and clearances around structures
- Improving structural survivability
- Emergency access and road standards

Discussion Questions

1. What factors influence wildland fires?
2. What are the California requirements for vegetation clearance around structures?
3. As a Company Officer how would you inspect a residence located within the WUI environment?

Activities

1. To be determined by instructor.

Formative Tests.....	1:30
Summative Tests.....	1:00
