



# COURSE INFORMATION AND REQUIRED MATERIALS

**Course:** Command 1A: Structure Fire Command Operations for the Company Officer (2012) CFSTES  
**Hours:** 40:00  
**Designed For:** First-in incident commander and company officers  
**Description:** This course provides an introduction to the principles of command, an overview of the concepts of command safety and the risk management process, preincident planning considerations, command considerations at structure fire incidents, Company Officer initial actions at an incident including the development of incident priorities, strategy, and tactics, information on the roles and responsibilities of a Company Officer for post-incident actions. Each student will have the opportunity to gain experience in a controlled environment through structure fire incident simulations.  
**Prerequisites:** Firefighter I training, I-200, Leadership 1, Prevention 1  
**Certification:** Company Officer  
**Standard:** Complete all activities and formative tests; complete the summative test with a minimum 80%  
**Class Size:** 25  
**Restrictions:** None

| REQUIRED STUDENT MATERIALS   | EDITION | PUBLISHER |
|--|---------|-----------|
| ▪ Command 1A: Structure Fire Command Operations for the Company Officer – California Edition | 2011    | Delmar    |
| REQUIRED INSTRUCTOR MATERIALS  |         |           |
| ▪ Command 1A: Structure Command Operations for the Company Officer – California Edition      | 2011    | Delmar    |
| ▪ Command 1A Instructor Materials for Activities and Scenario-based Exercises                | Current | SFT       |

| PUBLISHER CONTACT INFORMATION |  |   |
|-------------------------------|--|---|
| Delmar                        | Delmar Thomson Learning (800-347-7707) | esales@thomsonlearning.com  |
| SFT                           | Instructor's Corner                    | <a href="http://osfm.fire.ca.gov/training/instructorscorner.php">http://osfm.fire.ca.gov/training/instructorscorner.php</a> |

## COMMAND 1A COURSE PLAN

Unit 1: Orientation and Administration (1:00)  
 Topic 1-1: Orientation and Administration ..... 1:00  
 Terminal Learning Objective (TLO): At the end of this topic, the student will be able to identify the classroom and facility requirements along the 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
  - Class participation requirements

\* Check the Instructor's Corner on the SFT website for an activity available for use.



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Discussion Questions

1. What are formative and summative tests?

Activities

1. To be determined by the instructor

Unit 2: Introduction to Command (7:00)

Topic 2-1: Incident Management Systems Review.....1:30

Terminal Learning Objective (TLO): At the end of this topic, the student will be able to describe an incident management system (IMS).

Enabling Learning Objectives (ELO):

1. Identify the origin of the incident management system
2. Define the benefits of an incident management system
3. Describe the bases of incident management systems
4. Describe the components of an incident management system
5. Describe the role and responsibilities of the IMS Incident Commander

Activity:

1. Complete a diagnostic test on incident management systems given at the beginning of this session\*

Topic 2-2: Fireground Safety Concepts.....2:30

Terminal Learning Objective (TLO): At the end of this topic, the student will be able to describe the relationship of firefighter safety to strategy and tactics and general safety concepts including safety officers, personal protective equipment, rapid intervention crews, and rehabilitation.

Enabling Learning Objectives (ELO):

1. Compare the relationship of firefighter safety to strategy and tactics
2. Review fireground injuries and death
3. Describe common incident scene safety concepts
4. Analyze risk analysis at a structure fire
5. Describe the risk management process
6. Illustrate properly refusing risk (turn down)
7. Identification and management of life hazard zones

Activity:

1. Review and analyze a "routine" structure fire that resulted in a near miss or line-of-duty death\*

Topic 2-3: Concepts of Decision Making .....0:30

Terminal Learning Objective (TLO): At the end of this topic, the student will be able to describe and use a variety of decision-making concepts, as well as simple and complex decision-making models.

Enabling Learning Objectives (ELO):

1. Apply the Recognition-primed Decision Making model (RPD)
  - Implication on fireground decisions
  - Importance to the post-incident analysis
2. Apply the Naturalistic Decision Making model (NDM)
  - Descriptive decision theory framework and how real or ideal decision makers make decisions
3. Apply the Classical Decision Making model (CDM)
  - Basis
  - When it is used
  - How it is used
4. Evaluate the decision making process
  - Identifying the problem
  - Evaluating alternatives and their possible impacts
  - Determining and prioritizing objectives
  - Evaluating results

\* Check the Instructor's Corner on the SFT website for an activity available for use.



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5. Identify decision models

Activity:

1. To be determined by the instructor

Topic 2-4: Ethics/Command Presence on the Fireground ..... 1:00

Terminal Learning Objective (TLO): At the end of this topic, the student will be able to describe how the concept of ethical behavior and the basic elements of command presence relate to the company officer's performance on the fireground.

Enabling Learning Objectives (ELO):

1. Analyze ethical responsibility of the leader
  - Determining what ethics are
  - The impact ethics have on our personal ethical value system
  - The ethical decision-making process
2. Evaluate command presence
  - What it includes
  - How to acquire it
  - How to display it

Activities:

1. Evaluate ethical dilemmas in the workplace\*
2. Identify and discuss unethical fireground conduct\*

Topic 2-5: Principles of Command ..... 1:30

Terminal Learning Objective (TLO): At the end of this topic, the student will be able to describe the elements of command and formulate initial fireground command actions.

Enabling Learning Objectives (ELO):

1. Identify factors involved in command considerations for scene coordination and control
2. Illustrate a good communication system
  - Six-step communication model
3. Apply size-up
  - Three required informational areas
4. Analyze incident priorities
  - Order of importance
5. Describe goals and objectives
  - Nine generally accepted firefighting strategic goals
  - Tactical objectives and methods to meet the strategic goals
6. Identify and use the command options for the Company Officer
  - Investigative
  - Fast attack
  - Command
7. Prepare a plan of action that should occur at every incident
8. Apply the transfer of command process

Activity:

1. Perform a size-up and make some initial decisions regarding fireground operations\*

Unit 3: Preincident Considerations (3:15)

Topic 3-1: Building Construction and its Affect on Fire Development ..... 1:00

Terminal Learning Objective (TLO): At the end of this topic, the student will be able to describe types of building construction, dynamics of fire, and how fire and smoke spread through a building.

Enabling Learning Objectives (ELO):

1. Identify the five standard NFPA building construction types
2. Describe the chemistry of fire and the combustion process

\* Check the Instructor's Corner on the SFT website for an activity available for use.



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3. Describe the physics of fire
  - Characteristics of fire growth
  - Heat transfer
  - Flashover
  - Backdraft
  - Fire ventilation
  - Smoke behavior
  - Reading smoke
  - Avenues of fire spread

Activity:

1. To be determined by the instructor

Topic 3-2: Fire Department Support of Built-in Fire Protection Systems ..... 0:30

Terminal Learning Objective (TLO): At the end of this topic, the student will be able to describe the need for and benefits of built-in fire protection systems.

Enabling Learning Objectives (ELO):

1. Describe the need for built-in fire protection systems and why they are beneficial to building occupants and firefighters
2. Identify the differences between sprinkler, standpipe, and special extinguishing systems
3. Compare sprinkler systems
  - Wet pipe
  - Dry pipe
  - Deluge
  - Preaction
4. Compare standpipe systems
  - Different types
  - Classes
5. Compare special extinguishing systems
  - Carbon dioxide
  - Halogenated
  - Dry chemical
  - Wet chemical
  - Clean agent systems
6. Evaluate fire department support of built-in fire protection systems

Activity:

1. To be determined by the instructor

Topic 3-3: Structure Fire Preincident Considerations ..... 0:45

Terminal Learning Objective (TLO): At the end of this topic, the student will be able to describe preincident considerations for a potential structure fire.

Enabling Learning Objectives (ELO):

1. Describe the value of preincident planning
2. Describe the benefits of using a preincident plan
3. Analyze the importance of a preincident plan as it relates to a structural firefighting
4. Identify the essential data used to determine initial actions
5. Define building information gathered from a preincident plan including building protection systems
6. Describe target hazard considerations
7. Identify the information that should be provided by the preincident plan
8. Describe preincident planning standard operating guidelines
  - What companies do upon arrival
  - Predetermined course of actions for a given situation

\* Check the Instructor's Corner on the SFT website for an activity available for use.



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- Formulating alternative response plans
- 9. Describe the development of standard operating guidelines for implementing and utilizing an incident management system

Activity:

1. Identify the benefits of using a preincident plan during initial actions\*

Topic 3-4: Local, State, and Federal Mutual Aid Resource Availability ..... 1:00

Terminal Learning Objective (TLO): At the end of this topic, the student will be able to describe local, state, and federal resources that are available to respond to assist with emergency incidents under an automatic or mutual aid agreement.

Enabling Learning Objectives (ELO):

1. Identify and define fire department resources
  - Apparatus and personnel
  - Additional alarms
  - Water systems
2. Compare automatic and mutual aid
  - Initiation
  - Response times
  - Interagency compatibility
3. Identify the various agencies that support the fire service and describe their roles
  - Cooperating agencies
  - Private entities
  - State agencies
  - Federal agencies

Activity:

1. Identify local, state, and federal mutual aid resources\*

Unit 4: Company Operations (2:00)

Topic 4-1: Engine and Truck Company Operations ..... 1:00

Terminal Learning Objective (TLO): At the end of this topic, the student will be able to describe the different functions of an engine company and a truck company and how those functions affect the emergency operations at a structure fire.

Enabling Learning Objectives (ELO):

1. Define the purpose of engine company operations.
2. Describe the responsibilities of engine company operations
3. Describe the three-step fire control process
4. Define the purpose of truck company operations
5. Describe the responsibilities of truck company operations
6. Compare the four types of ventilation
7. Describe the support functions provided by a truck company
8. Describe the guidelines for initial attack
9. Describe considerations for specific occupancies during initial attack
  - Residential
  - Places of assembly
  - Small or large shopping centers or malls
  - Office buildings
  - Institutions
  - Industrial occupancies
  - Fuel facilities
  - Construction sites

\* Check the Instructor's Corner on the SFT website for an activity available for use.



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Activity:

1. To be determined by the instructor

Topic 4-2: Apparatus Placement Considerations ..... 0:45

Terminal Learning Objective (TLO): At the end of this topic, the student will be able to describe the guidelines and factors for placing engines and trucks at a structure fire.

Enabling Learning Objectives (ELO):

1. Analyze the factors that affect apparatus placement
2. Describe the guidelines for placing the first-in engine, second-in engine, and first-in truck
3. Identify the six faces of a fire
4. Identify on-scene hazards when positioning apparatus
5. Describe the strategic goals and tactical priorities for apparatus placement

Activity:

1. Using a sketch of a fire scenario, correctly place apparatus according to the incident\*

Topic 4-3: Determining Fire Flow Requirements ..... 0:15

Terminal Learning Objective (TLO): At the end of this topic, the student will be able to describe the quick field formula for determining fire flow and the equipment and personnel to deliver the needed flow.

Enabling Learning Objectives (ELO):

1. Describe the quick field formula for determining needed fire flow
2. Describe the National Fire Academy fire flow formula
3. Describe the resources required to deliver the needed fire flow
4. Calculate needed fire flow for a given scenario

Activity:

1. To be determined by the instructor

### Unit 5: Command Considerations (20:30)

Topic 5-1: Size-up and Report on Conditions ..... 2:00

Terminal Learning Objective (TLO): At the end of this topic, the student will be able to describe and demonstrate the size-up and report on conditions processes, the benefits of accuracy, and factors to be considered when transmitting the information.

Enabling Learning Objectives (ELO):

1. Identify the command sequence
2. Define size-up
3. Describe the information sources for size-up
4. Describe the concerns associated with size-up
5. Track size-up information
6. Describe ongoing size-up
7. Develop an action plan based on size-up information
8. Describe the size-up triangle
9. Describe specific fireground factors that affect size-up
10. Describe the application of size-up
11. Apply the acronyms, abbreviations, and mnemonics commonly used for size-up
12. Define a report on conditions
13. Describe the components of a report on conditions
14. Describe radio procedures used to deliver a report on conditions

Activity:

1. Provide the opportunity to take a detailed look at each size-up factor to help prepare the students for the simulation portion of this course\*

\* Check the Instructor's Corner on the SFT website for an activity available for use.



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|---|------|
| Topic 5-2: Determining and Implementing the Initial Incident Actions .....  | 2:00 |
| Terminal Learning Objective (TLO): At the end of this topic, the student will be able to describe the process for initiating a plan of action at a structure fire.  |      |
| Enabling Learning Objectives (ELO):   |      |
| 1. Determine resource requirements for a structure fire   |      |
| 2. Develop and implement a plan of action   |      |
| 3. Initiate incident documentation  |      |
| 4. Evaluate the ongoing incident  |      |
| 5. Transfer command at a structure fire   |      |
| Activity:   |      |
| 1. Determine initial actions at the scene of a structure fire and initiate a tactical worksheet*  |      |
| Topic 5-3: Conducting Fire Incident Scenarios .....   | 0:30 |
| Terminal Learning Objective (TLO): At the end of this topic, the student will be able to apply fireground command concepts including incident priorities, strategic goals, and tactical objectives to a simulated structure fire. |      |
| Enabling Learning Objectives (ELO):   |      |
| 1. Describe the purpose of the fire scenario activity   |      |
| 2. Define the four types of structures used in the scenarios  |      |
| ▪ Single-family   |      |
| ▪ Multi-family  |      |
| ▪ Assembly  |      |
| ▪ Commercial  |      |
| 3. Describe the student procedure for commanding a structure fire scenario including time limitations   |      |
| 4. Describe the instructor review procedure   |      |
| 5. Describe the scenario pass/fail criteria   |      |
| Activity:   |      |
| 1. To be determined by the instructor   |      |
| Topic 5-4: Tactical Considerations Specific to One- and Two-family Dwellings .....  | 4:45 |
| Terminal Learning Objective (TLO): At the end of this topic, the student will be able to describe the strategic goals, tactical objectives, and hazards associated with fighting fires in one- and two-family dwellings.          |      |
| Enabling Learning Objectives (ELO):   |      |
| 1. Evaluate life safety impact of fire in one- and two-family dwellings   |      |
| 2. Describe one- and two-family dwelling construction   |      |
| 3. Define hazards encountered in one- and two-family dwellings  |      |
| 4. Analyze strategic goals and tactical objectives for a fire in one- and two-family dwellings  |      |
| 5. Compare the hazards associated with fires in a basement, on the fire-floor, on an upper-floor, in an attic, in an attached garage, and in a manufactured mobile home   |      |
| Activities:   |      |
| 1. Review and analyze a structure fire at a one-family dwelling fire completed at the beginning of this session*  |      |
| 2. Assume the role of the first-in Company Officer at a one-family dwelling fire, initiate command, and manage resources using appropriate strategic goals and tactical objectives*   |      |
| 3. Evaluate the report of conditions, plan of action, and transfer of command as presented by the student Company Officer*  |      |
| Topic 5-5: Tactical Considerations Specific to Multi-Family Dwellings.....  | 3:15 |
| Terminal Learning Objective (TLO): At the end of this topic, the student will be able to describe the strategic goals, tactical objectives, and hazards associated with fighting fires in multi-family dwellings.                 |      |

\* Check the Instructor's Corner on the SFT website for an activity available for use.



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Enabling Learning Objectives (ELO):

1. Define a multi-family dwelling.
2. Identify the life safety risks associated with a multi-family dwelling
  - Firefighter safety
  - Search and rescue elements
3. Describe hazards encountered in multi-family dwellings
4. Describe strategic goals and tactical objectives for a fire in multi family dwellings
5. Describe the hazards associated with fires in a older apartment houses, newer apartment houses, fire-resistive dwellings, .row-frame dwellings, brownstone dwellings, and garden apartments

Activities:

1. Review and analyze a structure fire at a multi-family dwelling fire completed at the beginning of this session\*
2. Assume the role of the first-in Company Officer at a multi-family dwelling fire, initiate command, and manage resources using appropriate strategic goals and tactical objectives\*
3. Evaluate the report of conditions, plan of action, and transfer of command as presented by the student Company Officer\*

Topic 5-6: Tactical Considerations Specific to Commercial Buildings.....4:00

Terminal Learning Objective (TLO): At the end of this topic, the student will be able to describe the strategic goals, tactical objectives, and hazards associated with fighting fires in commercial buildings.

Enabling Learning Objectives (ELO):

1. Identify the life safety risks associated with a commercial building
  - Firefighter safety
  - Search and rescue elements
2. Describe hazards encountered in commercial buildings
3. Describe strategic goals and tactical objectives for a fire in a commercial building
4. Describe the hazards associated with fires in a strip mall, large commercial building, two- or three-story commercial structure, and stand-alone commercial building

Activities:

1. Review and analyze a structure fire at a commercial building fire completed at the beginning of this session\*
2. Assume the role of the first-in Company Officer at a commercial building fire, initiate command, and manage resources using appropriate strategic goals and tactical objectives\*
3. Evaluate the report of conditions, plan of action, and transfer of command as presented by the student Company Officer\*

Topic 5-7: Tactical Considerations Specific to Places of Assembly .....3:30

Terminal Learning Objective (TLO): At the end of this topic, the student will be able to describe the strategic goals, tactical objectives, and hazards associated with fighting fires in places of assembly.

Enabling Learning Objectives (ELO):

1. Define a place of assembly
2. Identify the life safety risks associated with a place of assembly
  - Firefighter safety
  - Search and rescue elements
3. Describe hazards encountered in a place of assembly
4. Describe strategic goals and tactical objectives for a fire in a place of assembly
5. Describe the hazards associated with fires in a church, exhibit hall, sports arena, nightclub, and showplace

Activities:

1. Assume the role of the first-in Company Officer at a place of assembly fire, initiate command, and manage resources using appropriate strategic goals and tactical objectives (SFT developed)\*

\* Check the Instructor's Corner on the SFT website for an activity available for use.



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2. Evaluate the report of conditions, plan of action, and transfer of command as presented by the student Company Officer\*

Topic 5-8: Post-incident Actions ..... 1:00

Terminal Learning Objective (TLO): At the end of this topic, the student will be able to describe post-incident actions and analysis of a structure fire.

Enabling Learning Objectives (ELO):

1. Describe incident termination including demobilization and returning to quarters
2. Describe the purpose of a post-incident analysis (PIA)
3. Compare an informal PIA with a formal PIA
4. Illustrate conducting a successful PIA
5. Identify the types of critical incident stress management (CISM)
6. Describe how an incident involving critical events can affect a firefighter

Activity:

1. To be developed by the instructor.

Structure Fire Scenarios Retakes ..... 3:00

Formative Tests (Instructor developed) ..... 2:15

Summative Test (Instructor developed) ..... 1:00

\* Check the Instructor's Corner on the SFT website for an activity available for use.