

<b>Name:</b>	<i>Strategy and Tactics</i>
<b>Course Description:</b>	This course provides an in-depth analysis of the principles of fire control through utilization of personnel, equipment, and extinguishing agents on the fire ground.
<b>Prerequisite:</b>	<i>Principles of Emergency Services</i>
<b>Outcomes:</b>	<ol style="list-style-type: none"> <li>1. Demonstrate (verbally and written) knowledge of fire behavior and the chemistry of fire.</li> <li>2. Articulate the main components of pre-fire planning and identify steps during a pre-fire plan review.</li> <li>3. Recall the basics of building construction and how they interrelate to pre-fire planning.</li> <li>4. Recall major steps taken during size-up and identify the order in which they will take place at an incident.</li> <li>5. Recognize and articulate the importance of fire ground communications.</li> <li>6. Identify and define the main functions within the ICS system and how they interrelate during an incident.</li> <li>7. Given different scenarios, the student will set up an ICS, call for appropriate resources and bring the scenario to a mitigated or controlled conclusion.</li> </ol>
<b>Suggested Student Texts:</b>	<p><i>Fire Command (and Workbook)</i>; Alan Brunacini, NFPA</p> <p><i>Command and Control of Fires and Emergencies (and Study Guide)</i>; Vincent Dunn, Fire Engineering</p> <p><i>Managing Major Fires</i>; John "Skip" Coleman, Fire Engineering</p> <p><i>Incident Management for the Street-Smart Fire Officer</i>; John "Skip" Coleman, Fire Engineering</p> <p><i>Firefighting Strategy and Tactics</i>; James Angle, et. Al, Delmar</p> <p><i>Structural Firefighting</i>; Ben Klaene, Saunders, NFPA</p> <p><i>Strategy and Tactics for Initial Company Operations</i>; NFA</p> <p><i>Fire Officers Handbook of Tactics</i>; John Norman, Fire Engineering</p> <p><i>Strategic and Tactical Considerations on the Fire Ground (and Instructor's Guide)</i>; James Smith, Brady-Prentice Hall</p> <p><i>Strategic and Tactical Considerations on the Fire Ground Study Guide</i>; James Smith, Trafford Press</p>

<p><b>Supporting References/Research for Faculty and Students:</b></p>	<p><b>U. S. Fire Administration</b>  <i>Building Construction, Combustible &amp; Non Combustible CDROM</i>, U. S. Fire Administration</p> <p><u>Publications:</u>  <a href="http://www.usfa.fema.gov/applications/publications/pubs_main.cfm">http://www.usfa.fema.gov/applications/publications/pubs_main.cfm</a>  See Fire Protection, Fire Service Administration, Fire Service Operations, Hazardous Materials, Health and Safety, Rescue, Terrorism, Training, Wildfire</p> <p><u>Applied Research:</u>  <a href="http://www.usfa.fema.gov/dhtml/inside-usfa/research.cfm">http://www.usfa.fema.gov/dhtml/inside-usfa/research.cfm</a></p> <p><u>Research Reports:</u>  <a href="http://www.usfa.fema.gov/dhtml/inside-usfa/r_reports.cfm">http://www.usfa.fema.gov/dhtml/inside-usfa/r_reports.cfm</a></p> <p><u>Technical Reports:</u>  <a href="http://www.usfa.fema.gov/applications/publications/techreps.cfm">http://www.usfa.fema.gov/applications/publications/techreps.cfm</a></p> <p><u>Topical Fire Research Series:</u>  <a href="http://www.usfa.fema.gov/dhtml/inside-usfa/tfrs.cfm">http://www.usfa.fema.gov/dhtml/inside-usfa/tfrs.cfm</a></p> <p><u>Learning Resource Center:</u>  <a href="http://www.usfa.fema.gov/dhtml/inside-usfa/lrc.cfm">http://www.usfa.fema.gov/dhtml/inside-usfa/lrc.cfm</a></p> <p><b>National Institute for Standards and Technology</b>  <a href="http://www.fire.nist.gov">http://www.fire.nist.gov</a>: Publications  <a href="http://fire.nist.gov/bfrlpubs/fire02/PDF/f02012.pdf">http://fire.nist.gov/bfrlpubs/fire02/PDF/f02012.pdf</a>  <a href="http://fire.nist.gov/6510/6510c.pdf">http://fire.nist.gov/6510/6510c.pdf</a></p> <p><b>Current Events/News</b>  <a href="http://www.firehouse.com/">http://www.firehouse.com/</a>  <a href="http://www.fireengineering.com/">http://www.fireengineering.com/</a>  <a href="http://www.withthecommand.com/">http://www.withthecommand.com/</a></p>
<p><b>Assessment:</b></p>	<p>Students will be evaluated for mastery of learning objectives by methods of evaluation to be determined by the instructor.</p>
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## Course Outline

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### ***Strategy and Tactics***

- I. Fire Chemistry Terms and Concepts
  - A. Heat Transfer
  - B. Principle Fire Characteristics of Materials
  - C. Fire Classifications
  
- II. Extinguishing Equipment
  - A. Extinguishing Equipment
  - B. Fire Apparatus
  - C. Personnel Requirement
  
- III. Visual Perception
  - A. Pre-planning
  - B. Size-up
  
- IV. Pre-Fire Planning
  - A. Concept
  - B. Phases
  - C. Methods
  - D. Format
  - E. Occupancy Classifications
  - F. Building Types
  
- V. Basic Divisions of Tactics
  - A. Size-up
    - 1. Facts
    - 2. Probabilities
    - 3. Own Situation
    - 4. Decision
    - 5. Plan of Operation
  
- VI. Rescue
  - A. Life Safety Problems of Fire
  - B. Determination of Life Hazard
  - C. Rescue Resources and Operations
  
- VII. Exposures
  - A. Principle Contributing Factors
  - B. Exposure Protection Operations

VIII. Confinement

- A. Fire Separations
- B. Fire Loading
- C. Built-in Protection
- D. Operations

IX. Ventilation

- A. Relationship to Objectives
- B. Equipment
- C. Roof Types
- D. Methods

X. Salvage

- A. Relationship to Objectives
- B. Equipment
- C. Operations During Fire
- D. Operations After Fire

