

Course Outline of Record

1. Course Code: FIRE-008
2.
  - a. Long Course Title: Firefighting Strategies & Tactics
  - b. Short Course Title: FIRE STRAT & TACTICS
3.
  - a. Catalog Course Description:
 

Principles of fire control, through utilization of manpower, equipment, extinguishing agents, and fire command and control procedures. Use of information on building construction types in fire control. Pre-fire planning and the organized approach to decision making on the fire ground.

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  - b. Class Schedule Course Description:
 

Principles of fire control, through utilization of manpower, equipment, extinguishing agents, and fire command and control procedures.

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  - c. Semester Cycle (if applicable): N/A
  - d. Name of Approved Program(s):
    - FIRE TECHNOLOGY Certificate of Achievement
    - FIRE TECHNOLOGY AS Degree for Employment Preparation
4. Total Units: 3.00      Total Semester Hrs: 54.00  
 Lecture Units: 3      Semester Lecture Hrs: 54.00  
 Lab Units: 0      Semester Lab Hrs: 0  
 Class Size Maximum: 30      Allow Audit: No  
 Repeatability No Repeats Allowed  
 Justification 0
5. Prerequisite or Corequisite Courses or Advisories:
 

*Course with requisite(s) and/or advisory is required to complete Content Review Matrix (CCForm1-A)*

 Prerequisite: FIRE 001  
 Advisory: ENG 061
6. Textbooks, Required Reading or Software: (List in APA or MLA format.)
  - a. Angle, James (2015). *Firefighting Strategies and Tactics* (Third/e). Burlington, MA 01803 Jones & Bartlett Learning. ISBN: 9781284036435  
 College Level: Yes  
 Flesch-Kincaid reading level: N/A
  - b. U.S. Fire Administration Publications: [http://www.usfa.fema.gov/applications/publications/pubs\\_main.cfm](http://www.usfa.fema.gov/applications/publications/pubs_main.cfm)  
Fire House Magazine.  
Fire Engineering Magazine.
7. Entrance Skills: *Before entering the course students must be able:*
  - a.
 

Demonstrate full understanding of fire behavior and extinguishments processes.

    - FIRE 001 - Identify the basic components of fire as a chemical reaction, the major phases of fire, and the main factors that influence fire spread and fire behavior.
    - FIRE 001 - Identify the effects of fire on the environment and the historical efforts made to protect society.
    - FIRE 001 - Identify the various types of public and private fire protection equipment and systems.
    - FIRE 001 - Define fire fighting strategy and tactics.
    - FIRE 001 - Describe the basic elements of fire fighter safety and survival.

## Advisory Skills:

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b.

Write a reserach paper.

- ENG 061 - Use theses to organize paragraphs into coherent analyses.
- ENG 061 - Recognize features of style such as purpose, audience and tone integrate these elements into academic and professional writing.
- ENG 061 - Demonstrate the ability to read and respond in writing beyond the literal interpretation of the text.

c.

Use multiple resources to conduct appropriate research.

- ENG 061 - Demonstrate the ability to use research skills including library resources such as books, periodicals, electronic databases and online resources such as the internet.

## 8. Course Content and Scope:

### Lecture:

1. Size-up:
  - a. Incident Command System (ICS).
  - b. Weather.
  - c. Topography.
  - d. Building construction.
  - e. Occupancy.
2. Rescue:
  - a. ICS.
  - b. Rapid intervention.
3. Exposures:
  - a. Methods of heat transfer:
    - i. Conduction.
    - ii. Convection.
    - iii. Radiation.
4. Confinement:
  - a. Fire streams.
5. Ventilation:
  - a. Positive pressure.
  - b. Vertical.
  - c. Horizontal.
6. Salvage:
  - a. Salvage covers.
  - b. Hall runners.
  - c. Pumps.
  - d. Diversion dams.
7. Overhaul:
  - a. Extension.
  - b. Restore utilities.
8. Post Fire Analysis:
  - a. Incident debriefing/critique.

# FIRE 008-Firefighting Strategies & Tactics

- b. Cause and determination.
- 9. Command Procedures:
  - a. ICS.
- 10. Fundamental Fire Problems.
- 11. Simulated Fire Problems.

Lab: *(if the "Lab Hours" is greater than zero this is required)*

## 9. Course Student Learning Outcomes:

1.  
Create a strategy and implement appropriate tactics to mitigate emergency incidents.
2.  
Illustrate a working knowledge and execution of ICS/NIMS at the incident.
3.  
Describe the principles of fire tactics in fire ground operations.

## 10. Course Objectives: *Upon completion of this course, students will be able to:*

- a. Analyze the principles of fire tactics in fire ground operations.
- b. Assess the components of a pre-fire plan.
- c. Develop pre-fire plans for various types of occupancies.
- d. Analyze a fire and develop a plan of action.
- e. Determine the life safety possibilities and probabilities in a fire situation.
- f. Demonstrate exposure protection principles to prevent fire spread.
- g. Discuss confined space operations.
- h. Analyze various ventilation operations.
- i. Examine various salvage operations to prevent unnecessary damage.
- j. Assess overhaul operations.
- k. Discuss Post Fire Analysis procedures of an Incident debriefing/critique.
- l. Describe components of the Incident Command System.
- m. Apply principles of fire tactics in simulated fire problems.
- n. Determine fundamental fire problems associated with building fires.

## 11. Methods of Instruction: *(Integration: Elements should validate parallel course outline elements)*

- a. Demonstration, Repetition/Practice
- b. Distance Education
- c. Individualized Study
- d. Lecture
- e. Observation
- f. Participation
- g. Role Playing
- h. Technology-based instruction

## 12. Assignments: *(List samples of specific activities/assignments students are expected to complete both in and outside of class.)*

In Class Hours: 54.00

Outside Class Hours: 108.00

- a. In-class Assignments

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Group discussions/postings on fire strategies and tactics.  
Fire simulations using computer software.  
Text book "Case Study" discussions and required postings

## b. Out-of-class Assignments

### A. Reading

Textbooks, Periodicals

Read one chapter each week and discuss the information in class. Read fire service periodicals (Firehouse and Fire Engineering Magazines) and discuss the current events.

### B. Writing

Research papers, Analyses, Reports

Students will analyze firefighting and rescue situations to determine proper tactics and strategies.

Students will be required to write a research paper of 3 to 4 pages.

### C. Critical Thinking

Student will be able to communicate own perspective or position, Apply appropriate tools in problem-solving. Students will participate in fire and rescue simulations. Students will identify resource needs and placement to mitigate simulation exercises.

### D. Computation

## 13. Methods of Evaluating Student Progress: *The student will demonstrate proficiency by:*

- College level or pre-collegiate essays
- Written homework
- Term or research papers
- Self-paced testing
- Presentations/student demonstration observations
- Group activity participation/observation
- Self/peer assessment and portfolio evaluation
- Student peer assessments
- True/false/multiple choice examinations
- Mid-term and final evaluations
- Student participation/contribution
- Oral and practical examination

## 14. Methods of Evaluating: Additional Assessment Information:

## 15. Need/Purpose/Rationale -- *All courses must meet one or more CCC missions.*

PO - Career and Technical Education

Apply critical thinking skills to execute daily duties in their area of employment.

Apply critical thinking skills to research, evaluate, analyze, and synthesize information.

Exhibit effective written, oral communication and interpersonal skills.

IO - Personal and Professional Development

Demonstrate an understanding of ethical issues to make sound judgments and decisions.

## 16. Comparable Transfer Course

**University System**

**Campus**

**Course Number**

**Course Title**

**Catalog Year**

## 17. Special Materials and/or Equipment Required of Students:

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18. Materials Fees:  Required Material?

**Material or Item**

**Cost Per Unit**

**Total Cost**

# FIRE 008-Firefighting Strategies & Tactics

19. Provide Reasons for the Substantial Modifications or New Course:

Periodic Review Update

20. a. Cross-Listed Course (*Enter Course Code*): N/A  
b. Replacement Course (*Enter original Course Code*): N/A

21. Grading Method (*choose one*): Letter Grade Only

22. MIS Course Data Elements

- a. Course Control Number [CB00]: CCC000558897  
b. T.O.P. Code [CB03]: 213300.00 - Fire Technology  
c. Credit Status [CB04]: D - Credit - Degree Applicable  
d. Course Transfer Status [CB05]: B = Transfer CSU  
e. Basic Skills Status [CB08]: 2N = Not basic skills course  
f. Vocational Status [CB09]: Possibly Occupational  
g. Course Classification [CB11]: Y - Credit Course  
h. Special Class Status [CB13]: N - Not Special  
i. Course CAN Code [CB14]: N/A  
j. Course Prior to College Level [CB21]: Y = Not Applicable  
k. Course Noncredit Category [CB22]: Y - Not Applicable  
l. Funding Agency Category [CB23]: Y = Not Applicable  
m. Program Status [CB24]: 1 = Program Applicable

Name of Approved Program (*if program-applicable*): FIRE TECHNOLOGY, FIRE TECHNOLOGY

*Attach listings of Degree and/or Certificate Programs showing this course as a required or a restricted elective.)*

23. Enrollment - Estimate Enrollment

First Year: 30

Third Year: 30

24. Resources - Faculty - Discipline and Other Qualifications:

- a. Sufficient Faculty Resources: Yes  
b. If No, list number of FTE needed to offer this course: N/A

25. Additional Equipment and/or Supplies Needed and Source of Funding.

N/A

26. Additional Construction or Modification of Existing Classroom Space Needed. (*Explain:*)

N/A

27. FOR NEW OR SUBSTANTIALLY MODIFIED COURSES

Library and/or Learning Resources Present in the Collection are Sufficient to Meet the Need of the Students Enrolled in the Course: Yes

28. Originator Allen Scott Ventura Origination Date 09/12/17