

# Program of Instruction

## Course Syllabus

**Course Title:** Fireground Ventilation

**Course Duration:** 1-16 Hours

**Program:** Firefighting/Cornerstone

**Course Description:** The ventilation class includes the reasons for, and advantages and disadvantages of the different types of ventilation as they relate to building construction and procedures. Students will review fire behavior as it relates to building construction and its relationship with fuel load, occupancy type and its place in the list of tactical priorities. From jalousie to double hung, from gambrel to four – twelve pitch, the window types and roof styles have an affect on the ventilation operation. The recognition of signs and methods of preventing potential backdrafts and flashovers is an important part of the class. Advantages and disadvantages of vertical, horizontal and forced ventilation are discussed and practiced when possible at the local level.

**Course Requirements and/or Recommendations:** These can be divided into three categories: those completed prior to arriving in class (Pre-Course Work), those completed during class, such as homework assignments and quizzes (Course Work), and requirements completed after class but prior to receiving a certificate of completion. (Post-Course Work)

### Summary of Directions

Pre-Course Work: None

Course Work: Attend and participate in all lectures and practicals.

Post-Course Work: None

### **Course Policies:**

**Safety Policy:** Students shall understand and follow all instructions pertaining to operational safety, as stated by instructors or as written in course materials. Instructors and students shall be mindful of safety at all times. Conduct judged to be unsafe shall be grounds for dismissal from the course.

**Grading Policy:** Decisions regarding certificates of course completion shall be made solely by the lead instructor of the course. All grading of exams shall be conducted by the Curriculum/Testing Office. All grading of practical exercises shall be based upon the standards set by the regulatory agency referenced in the course material and IFSI.

**Reference List:**

<http://www.google.com/imgres?hl=en&biw=1440&bih=719&tbn=isch&tbnid=EBjl8tthUY1-BM:&imgrefurl=http://pdxfanews.blogspot.com/2013/10/structure-fire-damazges-longview-home.html&docid=1XgsYpXGtrHbbM&imgurl=http://www.flashalertnewswire.net/images/news/2013-1>

IFSTA, Essentials 4<sup>th</sup> edition

Delmar, Firefighter's Handbook, 2000

**Course Content:**

Module: 1

Title: Ventilation

**Terminal Learning Objectives:**

At the conclusion of this module, the student will explain principles and procedures of ventilation.

## Course Schedule

| <u>Event</u>                               | <u>Duration</u> |
|--|-----------------|
| Module 1 - Ventilation                     | 2 hours         |
| Drill 1.1 – Ventilation                    | 2 hours         |
| Drill 1.2 – Deploying a Roof Ladder        | 1 hour          |
| Drill 1.3 – Flat Roof Prop – Hand Tools    | 1 hour          |
| Drill 1.4 – Flat Roof Prop – Saw           | 1 hour          |
| Drill 1.5 – Pitched Roof Prop – Hand Tools | 1 hour          |
| Drill 1.6 – Pitched Roof Prop – Saw        | 1 hour          |
| Drill 1.7 – Ventilation Walk-Through       | 1 hour          |
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| Additional Practice of Drills              | 6 hours         |