

Program of Instruction

Course Syllabus

Course Title: Industrial Fire Brigade – Interior Structural

Course Duration: 40 Hours

Program: Firefighting

Course Prerequisites: Industrial Fire Brigade Incipient
Hazardous Materials Awareness

Course Description: This course is designed to be essential training for new or existing members of an Industrial Fire Brigade at a facility. The main focus of this course is the physical activity of fire suppression, rescue, or both inside of buildings or enclosed structures that are involved in a fire beyond the incipient stage. This course is designed to meet the NFPA 1081 Standard for Industrial Fire Brigade Member Professional Qualifications (2012 Edition) Chapter 7.

This course is ProBoard accredited and if you would like certification you must provide proof by the end of the course that you are trained at the Hazmat Awareness Level or above.

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: 100% completion of course

Post-Course Work: None

Course Policies:

Attendance Policy: IFSI requires students to attend (100%) or make up all course content that leads to certification. Students are expected to attend on time and to remain in class for the duration of the course. Students **MUST COMPLETE** all portions of a certification course, both classroom and practical, to be eligible to receive their certification.

If a student misses any portion of class with an accumulated absence of 20% or less of scheduled class time, it will be the student's responsibility to arrange the make-up of the missed course content with the instructor(s) or program manager. The student must make up the specific course content that s/he missed, not just the hours. Make-ups are limited to 20% of scheduled class time. Make-ups must

be documented on the class roster. If a student's absence is greater than 20% refer to "True Emergencies" section of the IFSI Examination Policy.

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.

Academic Integrity Policy: IFSI has the responsibility for maintaining academic integrity so as to protect the quality of the education provided through its courses, and to protect those who depend upon our integrity. It is the responsibility of the student to refrain from infractions of academic integrity, from conduct that may lead to suspicion of such infractions, and from conduct that aids others in such infractions. Any violation of the code of conduct is grounds for immediate 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.

Retesting: If a student fails to pass an exam, retesting takes place on set dates at regional sites across the state. More information is provided in the course completion e-mail and on the IFSI website.

American Disabilities Act: As guaranteed in the Vocational Rehabilitation Act and in the American Disabilities Act, if any student needs special accommodations they are to notify their instructor and provide documentation as soon as possible so arrangements can be made to provide for the student's needs. If arrangements cannot be made at the class site, the student will test at an alternative time and place where the special accommodations can be made.

Evaluation Strategy: Students will be evaluated with end of course performance evaluations.

Course Content:

Chapter: 1

Title: Brigade Member Qualifications and Safety

Terminal Learning Objectives:

At the conclusion of this chapter, the student will explain the Roles and Responsibilities of the Fire Brigade Members.

Chapter: 2

Title: Standard Operating Procedures and Guidelines

Terminal Learning Objectives:

At the conclusion of this chapter, the student will explain Standard Operating Procedures and Guidelines and the differences between the two.

Chapter: 4

Title: Incident Management System

Terminal Learning Objectives:

At the conclusion of this module, the student will identify the operations within the incident management system.

Chapter: 5

Title: Fire Behavior

Terminal Learning Objectives:

At the conclusion of this chapter, the student will explain principles of fire behavior, and how it may affect fire ground procedures.

Chapter: 7

Title: Extinguishers

Terminal Learning Objectives:

At the conclusion of this module, the student will explain the proper extinguisher for different classes of fire.

Chapter: 8

Title: Brigade Member Tools and Equipment

Terminal Learning Objectives:

At the conclusion of this module, the student will be able to identify tools and equipment utilized by Fire Brigades.

Chapter: 10

Title: Response and Size Up

Terminal Learning Objectives:

At the conclusion of this module, the student will recognize their roles in responding to an emergency scene.

Chapter: 11

Title: Forcible Entry

Terminal Learning Objectives:

At the conclusion of this module, the student will identify the tools used during forcible entry.

Chapter: 12

Title: Ladders

Terminal Learning Objectives:

At the conclusion of this module, the student will describe proper deployment and use of ladders.

Chapter: 13

Title: Search and Rescue

Terminal Learning Objectives:

At the conclusion of this module, the student will explain the components of search and rescue.

Chapter: 14

Title: Ventilation

Terminal Learning Objectives:

At the conclusion of this module, the student will explain horizontal, vertical and mechanical ventilation.

Chapter: 15

Title: Water Supply

Terminal Learning Objectives:

At the conclusion of this module, the student will explain water supply during firefighting operations.

Chapter: 16

Title: Fire Hose, Nozzles and Streams

Terminal Learning Objectives:

At the conclusion of this module, the student will explain the effective use of fire streams during firefighting operations.

Chapter: 17

Title: Foam

Terminal Learning Objectives:

At the conclusion of this module, the student will explain the different application and foams available.

Chapter: 18

Title: Brigade Member Survival

Terminal Learning Objectives:

At the conclusion of this module, the student will recognize the purpose for member accountability, risk analysis and the Rapid Intervention Crew.

Chapter: 19

Title: Salvage and Overhaul

Terminal Learning Objectives:

At the conclusion of this module, the student will explain the purpose for salvage and overhaul.

Chapter: 21

Title: Fire Suppression

Terminal Learning Objectives:

At the conclusion of this module, the student will explain tactics and task on the fire ground to extinguish fires.

Chapter: 22

Title: Pre-incident Planning

Terminal Learning Objectives:

At the conclusion of this module, the student will identify the components of a pre-incident plan.

Chapter: 25

Title: Fire Detection, Protection, and Suppression Systems

Terminal Learning Objectives:

At the conclusion of this module, the student will describe the fire prevention protection systems in both emergency and non-emergency situations.

Reference List:

Industrial Fire Brigade, Principles and Practices, 1st Edition Revised. (2012)
Jones and Bartlett Learning, LLC

NFPA 1081 Standard for Industrial Fire Brigade Member Professional
Qualifications, 2012 Edition

NFPA 600 Standard on Facility Fire Brigades, 2015 Edition

Course Schedule

DAY ONE

| <u>Event</u> | <u>Duration</u> |
|--|-------------------|
| Chapter 1 – Brigade Member Qualifications and Safety | 1 hour 30 minutes |
| Drill 1.1 Don and Doff PPE | 1 hour |
| Drill 1.2 Don SCBA | 1 hour |
| Drill 1.3 SCBA Emergency Procedures | 30 minutes |
| Drill 1.4 Basic SCBA Can | 1 hour |
| Lunch | |
| Chapter 2 – Standard Operating Procedures | 30 minutes |
| Chapter 14 – Ventilation | 1 hour |
| Chapter 5 – Fire Behavior | 1 hour |
| Drill 5.1 – Fire Behavior /Thermal layering | 1 hour |
| Chapter 7 – Fire Extinguishers | 30 minutes |
| Drill 7.1 Dry Chemical Extinguisher | 30 minutes |
| Drill 7.3 Extinguish a Class C fire | 30 minutes |

DAY TWO

| <u>Event</u> | <u>Duration</u> |
|--|-------------------|
| Chapter 4 – Incident Management Services | 30 minutes |
| Chapter 8 – Brigade Member Tools and Equipment | 1 hour |
| Chapter 11 – Forcible Entry | 1 hour 30 minutes |
| Drill 11.1 Force inward and outward doors | 30 minutes |
| Chapter 22 – Pre-Incident Planning | 30 minutes |
| Drill 22.1 Pre-Plan and Fire Safety Survey | 30 minutes |
| Lunch | |
| Chapter 15 – Water Supply | 30 minutes |
| Drill 15.1 Hook to a hydrant | 1 hour |
| Chapter 16 – Fire Hose, Nozzles, and Streams | 1 hour |
| Drill 16.1 Nozzle operations | 1 hour |
| Chapter: 18 - Brigade Member Survival | 1 hour |
| Chapter: 13 - Search and Rescue | 1 hour |

Day Three

| <u>Event</u> | <u>Duration</u> |
|---|-----------------|
| Drill 13.1 Search Primary/Secondary | 1 hour |
| Drill 13.2 Civilian Drags and Carries | 30 minutes |
| Drill 13.3 Firefighter Drags | 30 minutes |
| Chapter: 12 – Ladders | 1 hour |
| Drill 12.1 Two Person Ladder carry | 1 hour |
| Drill 12.2 Two Person Firefighter Raise | 1 hour |
| Lunch | |
| Chapter 25 – Fire Detection, Protection, and Suppression Systems | 1 hour |
| Drill 25.1 Fire Alarm Panel | 30 minutes |
| Drill 25.2 Fire Protection System | 30 minutes |
| Chapter 21 – Fire Suppression | 1 hour |
| Drill 21.1 Stream Application | 1 hour |
| Drill 21.2 Single Family Dwelling | 1 hour |

Day Four

| <u>Event</u> | <u>Duration</u> |
|--|-----------------|
| Chapter 17 Foam | 45 minutes |
| Drill 17.1 Assemble Foam Stream Components | 2 hours |
| Chapter 19 – Salvage and Overhaul | 45 minutes |
| Drill 19.1 Salvage Cover Fold and Deployment | 30 minutes |
| Drill 21.3 LP Burn | 2 hours |
| Lunch | |
| Performance evaluations | 4 hours |
