SYLLABUS

DATE OF LAST REVIEW: 02/2013
CIP CODE: 43.0205, 43.0202, 43.0203
SEMESTER: Departmental Syllabus
COURSE TITLE: Industrial Fire Protection and Safety
COURSE NUMBER: FRSC0233
CREDIT HOURS: 3
INSTRUCTOR: Departmental Syllabus
OFFICE LOCATION: Departmental Syllabus
OFFICE HOURS: Departmental Syllabus
TELEPHONE: 913-334-1100
PREREQUISITE (S): None

REQUIRED TEXT AND MATERIALS:
Please see bookstore for current textbook(s) and other required material.

COURSE DESCRIPTION:
Devoted to the instruction of Industrial fire protection and safety. Fire brigade operations are examined in this course which meets most fire brigade training requirements.

METHOD OF INSTRUCTION:
A variety of instructional methods may be used depending on content area. These include but are not limited to: lecture, multimedia, cooperative/collaborative learning, labs and demonstrations, projects and presentations, speeches, debates, and panels, conferencing, performances, and learning experiences outside the classroom. Methodology will be selected to best meet student needs.

COURSE OUTLINE:

WEEK ONE
FIRE BRIGADE TRAINING AND RESPONSIBILITIES
WEEK TWO
FIRE BEHAVIOR
WEEK THREE
HOSES NOZZLES, AND APPLIANCES
WEEK FOUR
PORTABLE FIRE EXTINGUISHERS
WEEK FIVE
FIRE DETECTION AND ALARM SYSTEMS
EXPECTED LEARNER OUTCOMES:
By the end of the course the student:
1. Will have a working knowledge of the Incident Management System provided.
2. Will be able to describe the various roles in a command structure.
3. Will be able to successfully navigate the classroom management software.
4. Will be able to prepare a fire brigade plan.
5. Will be able to discuss the natural progression of fire behavior.
6. Will be able to explain when and why Incident Management is to be used.
7. Will be able to describe the relationship between management, employee staff and on fire brigade on scene personnel.
8. Will be able to list seven resources that may be at the disposal of an Industrial Manager.
9. Will be able to explain why span of control is an issue as an incident commander.
10. Will be aware of the resources available to increase one’s knowledge of fire brigade training and implementation.

COURSE COMPETENCES:
1. Must list three advantages to Fire Protection Systems within a fire brigade structural format.
2. Must be able to reconstruct the five flow chart command structures provided.
3. Must explain fire protection procedures in the order at which they should occur.
4. Must identify the characteristics of good leadership.
5. Must explain why leadership is a key ingredient to successful management.
6. Must discuss the material provided using proper fire protection terminology.
7. Must construct a usable pre-incident plan using the template provided.
8. Must defend the cause and effect relationships between command decisions or non-decisions and the effects they have on the incident.
9. Must break down the individual variables that effect command and control procedures.
10. Must be able to select the proper command structure as it pertains to a specific command situation in the fire brigade format.
11. Must be able to analyze fire ground behavior in the context of decision-making by the Fire Brigade Manager.
12. Must be able to discriminate between fire protection and safety activities and those that hamper the process of effectively progressing an emergency incident to an effective end.
13. Must be able to predict outcomes based on Incident Management practices.
14. Must be able to evaluate the accountability practices of sound fire protection activities.
15. Must relate to other students with competent assessment of each other’s input and ideas.
16. Must be able to effectively critique a Fire Brigade and Fire Protection Plan.
17. Must be able to integrate a Fire Brigade Plan into the pre-incident scenario.
18. Must be able to solve the problem of timing so that command functions are not reactive in nature.
19. Must demonstrate proactive leadership in the manner at which emergency management takes place.
20. The student will be able organize a suppression team.
21. The student will demonstrate the use of a house line.
22. The student will demonstrate the use of 1-1/2” attack lines.
23. The student will demonstrate how to use a fire extinguisher.
24. The student will demonstrate how to select the proper fire extinguisher given a specific type of fire.
25. The student will demonstrate how to use a spanner wrench.
26. The student will demonstrate how to use a double male double female.
27. The student will explain the fire triangle.
28. The student will demonstrate how to connect fire hose.
29. The student will demonstrate how to use a hose clamp.
30. The student will explain the incident command system.

ASSESSMENT OF LEARNER OUTCOMES:
Assessment methods may include, but are not limited to, the following: Homework, Assignments, Quizzes, Class Participation, Chapter Tests, and Final Exam. The grading scale and the process for calculating the course grades are to be determined by the individual instructors. This information will be included in each instructor’s syllabus.

SPECIAL NOTES:
This syllabus is subject to change at the discretion of the instructor. Material included is intended to provide an outline of the course and rules that the instructor will adhere to in evaluating the student’s progress. However, this syllabus is not intended to be a legal contract. Questions regarding the syllabus are welcome any time.

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