Wayne County Community College District

COURSE SYLLABUS

FPT 246   Fire Investigation II

CREDIT HOURS: 4.00

CONTACT HOURS: 60.00

COURSE DESCRIPTION:
This course is intended to provide the student with advance technical knowledge on rule of law, fire scene analysis, fire behavior, evidence collection and preservation, scene documentation, case preparation, and testifying.

PREREQUISITES: *FPT 245*

EXPECTED COMPETENCIES:
Upon completion of this course, the student will:
1. Explain the rule of law as it pertains to arrest, search and seizure procedures and their application to fire investigation.
2. Recognize and interpret fire scenes common to various types of fires.
3. Describe the chemistry of combustion and the relationship of atoms, elements, compounds, and organic compounds on fire.
4. Explain the nature of fire including the effects of heat.
5. Explain and identify the combustion properties if liquids, gases, and solid fuels.
6. Identify and explain electrical causes if fires.
7. List and identify the make-up and use of incendiary devices, explosives, and bombs.
8. List the procedures for documenting fire scenes, including sketching, photography, and report writing.
9. Analyze fire-related deaths and injuries and describe methods of documentation.
10. Identify the techniques for interviewing and questioning suspects and subjects.
11. Explain the role of the fire investigator in courtroom proceedings including courtroom demeanor and testifying.
12. Identify and list the sources and technology available for fire investigations.
13. Identify and analyze the causes involved in the line of duty firefighter deaths related to structural and Wildland firefighting, training and research, and the reduction if emergency risks and accidents.

ASSESSMENT METHODS:
Student performance may be assessed by examination, quizzes, case studies, oral conversation, group discussion, oral presentations. The instructor reserves the option to employ one or more of these assessment methods during the course.

GRADING SCALE:
90%-100% = A
80%-89.9%= B
70%-79.9%= C
60%-69.9%= D
<60% = E