

COURSE DESCRIPTIONS

FIRE PROTECTION TECHNOLOGY

FIRS 1191 ORIENTATION

Format: 1 lecture / 0 lab (1 credit hour)

Introductory course which covers Fire Academy Policies and Procedures. Students complete the National Fallen Firefighter's Foundation's Everyone Goes Home course. Students are shown how to contact campus Police Department (PD) and watch a video on Title IX curriculum.

Credits: 1

Distribution: FIRS

Course Fee: Internet course fee (if applicable) = \$43

FIRS 1301 FIREFIGHTER CERTIFICATION I

Format: 2 lecture / 2 lab (3 credit hours.)

Firefighter safety and development. Curriculum includes Texas Commission on fire protection rules and regulations, firefighter safety, fire science, personal protective equipment, self-contained breathing apparatus, and fire reports and records.

Credits: 3

Distribution: FIRS

Course Fee: Background check= \$5, Drug testing fee= \$35, Insurance= \$13, Internet course fee (if applicable)= \$43, Lab fee= \$24, State testing fee= \$85

FIRS 1313 FIREFIGHTER CERTIFICATION III

Format: 2 lecture / 4 lab (3 credit hours)

This course will include a study of fire streams and pump operations as they relate to fundamental development of basic firefighter skills.

Credits: 3

Distribution: FIRS

Course Fee: Internet course fee (if applicable)= \$43, Lab fee= \$24

FIRS 1319 FIREFIGHTER CERTIFICATION IV

Format: 2 lecture / 3 lab (3 credit hours)

Equipment, tactics, and procedures used in forcible entry, ventilation, salvage, and overhaul. This course will cover preparation for certification as a basic firefighter.

Credits: 3

Distribution: FIRS

Course Fee: Lab fee= \$24

FIRS 1323 FIREFIGHTER CERTIFICATION V

Format: 2 lecture / 4 lab (3 credit hours)

Ropes and knots rescue procedures and techniques and hazardous materials. This course will cover preparation for certification as a basic fire fighter.

Credits: 3

Distribution: FIRS

Offered: Spring

Course Fee: Lab fee= \$24

FIRS 1329 FIREFIGHTER CERTIFICATION VI

Format: 2 lecture / 3 lab (3 credit hours)

Fire inspection techniques and practices. Course content will emphasize fire-cause determination. Curriculum includes fire protection systems, wild land fire, and pre-incident planning. This course will cover preparation for certification as a basic firefighter.

Credits: 3

Distribution: FIRS

Offered: Spring

Course Fee: Lab fee= \$24

FIRS 1333 FIREFIGHTER CERTIFICATION VII

Format: 2 lecture / 5 lab (4 credit hours)

Simulated emergency operations and hands-on live fire training exercises, incident management procedures, and combined operations using proper extinguishing methods. Emphasis on safety.

Credits: 4

Distribution: FIRS

Offered: Spring
Course Fee: Lab fee= \$24

FIRS 1407 FIREFIGHTER CERTIFICATION II

Format: 2 lecture / 4 lab (4 credit hours)
Basic principles and skill development in handling fire service hose and ladders. Curriculum includes the distribution system of water supply, basic building construction, and emergency service communication, procedures, and equipment.
Credits: 4
Distribution: FIRS
Course Fee: Internet course fee (if applicable)= \$43, Lab fee= \$24

FIRT 1301 FUNDAMENTALS OF FIRE PROTECTION

Format: 3 lecture (3 credit hours) College Success Skills to fire service, career opportunities, related fields. End-of-Course Outcomes: Describe a modern fire protection agency; outline the organizational and staffing requirements for fire protection; and identify public and private protection agencies.
Credits: 3
Distribution: FIRT
Offered: Summer
Course Fee: Lab fee= \$24

FIRT 1303 FIRE & ARSON INVESTIGATION I

Format: 3 lecture (3 credit hours)
Basic fire and arson investigation practices. Emphasis on fire behavior principles related to fire cause and origin determination. End-of-Course Outcomes: Identify the cause and point of origin and the cause of the fire; list possible motives of fire setters; and describe the elements of investigation practices.
Credits: 3
Distribution: FIRT
Offered: Spring
Course Fee: Lab fee= \$24

FIRT 1307 FIRE PREVENTION CODES & INSPECTION

Format: 3 lecture (3 credit hours)
Local building and fire prevention codes. Fire prevention inspections, practices, and procedures. End-of- Course Outcomes: Apply provisions of local building and fire prevention codes to fire prevention inspections; and describe fire inspection practices and procedures including hazard recognition and correction.
Credits: 3
Distribution: FIRT
Offered: Summer
Course Fee: Lab fee= \$24

FIRT 1309 FIRE ADMINISTRATION I

Format: 3 lecture (3 credit hours)
Introduction to the organization and management of a fire department and the relationship of government agencies to fire service. Emphasis on fire service leadership from the perspective of the company officer. End-of- Course Outcomes: Explain the intra-organizational cooperation needed for a fire department to function properly; describe fundamental management and organizational principles; and demonstrate leadership and management skills at the company-grade level.
Credits: 3
Distribution: FIRT
Offered: Spring
Course Fee: Lab fee= \$24

FIRT 1315 HAZARDOUS MATERIALS I

Format: 3 lecture (3 credit hours)
The chemical characteristics and behavior of various materials. Storage, transportation, handling hazardous emergency situations, and the most effective methods of hazard mitigation. End-of-Course Outcomes: Identify hazardous materials in various shipping and storage containers; explain chemical characteristics and how chemicals react under certain conditions; and describe the most effective methods of hazard mitigation.
Credits: 3
Distribution: FIRT
Offered: Fall
Course Fee: Lab fee= \$24

FIRT 1329 BUILDING CODES & CONSTRUCTION

Format: 3 lecture (3 credit hours)

Examination of building codes and requirements, construction types, and building materials. Includes walls, floorings, foundations, and various roof types and the associated dangers of each. End-of-Course Outcomes: Identify model building codes; and compare construction types related to fire behavior.

Credits: 3

Distribution: FIRT

Offered: Fall

Course Fee: Lab fee= \$24

FIRT 1338 FIRE PROTECTION SYSTEMS

Format: 3 lecture / 0 lab (3 credit hours)

Design and operations of fire detection and alarm systems, hear and smoke control systems, special protection and sprinkler systems, water supply for fire protection, and portable fire extinguishers. This course meets Fire and Emergency Services Higher Education (FESHE) Model Curriculum core requirements.

Credits: 3

Distribution: FIRT

Offered: Fall

Course Fee: Lab fee= \$24

FIRT 1349 FIRE ADMINISTRATION II

Format: 3 lecture (3 credit hours)

In-depth study of fire service management as pertaining to budgetary requirements, administration, organization of divisions within the fire service, and relationships between the fire service and outside agencies. End-of- Course Outcomes: Explain the relationships with outside organizations and their impact on fire service operations; develop an organizational structure demonstrating interagency cooperation; and describe management principles and techniques for effective organizational performance.

Credits: 3

Distribution: FIRT

Offered: Summer

Course Fee: Lab fee= \$24

FIRT 1353 LEGAL ASPECTS OF FIRE PROTECTION

Format: 3 lecture (3 credit hours)

Study of the rights duties liability concerns and responsibilities of public fire protection agencies while performing assigned duties. End-of-Course Outcomes: Summarize basic criminal and civil law; discuss relevant tort law; and describe state and federal legal systems.

Credits: 3

Distribution: FIRT

Offered: Summer

Course Fee: Lab fee= \$24

FIRT 1433 FIRE CHEMISTRY I

Format: 3 lecture / 2 lab (4 credit hours)

This course will examine the chemical nature and properties of compounds as related to the fire service. Issues to be discussed will be fundamental laws of chemistry, states of matter, gas laws, chemical bonding and thermodynamics.

Credits: 4

Distribution: FIRT

Course Fee: Lab fee= \$24

FIRT 1445 FIRE HAZARDOUS MATERIALS II

Format: 4 lecture (4 credit hours)

Mitigation practices and techniques to help effectively control hazardous material spills and leaks. End-of- Course Outcomes: Demonstrate proper methods of mitigating a hazardous material incident; and describe the components of a hazardous incident management system including scene control protective clothing and equipment spill and leak control and decontamination.

Credits: 4

Distribution: FIRT

Offered: Spring

Course Fee: Lab fee= \$24

FIRT 1492 SPECIAL TOPICS IN FIRE ADMINISTRATION

Format: 4 lecture (4 credit hours)

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and student to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency.

Credits: 4

Distribution: FIRT

Course Fee: Lab fee= \$24

FIRT 2305 FIRE INSTRUCTOR I

Format: 3 lecture / 1 lab (3 credit hours)

Preparation of fire and emergency services personnel to deliver instruction from a prepared lesson plan. Includes the use of instructional aids and evaluation instruments to meet the curriculum requirements of the Texas Commission on Fire Protection (TCFP) for Fire Instructor I certification. This course may be offered only by institutions certified as a training facility by the Texas Commission on Fire Protection.

Credits: 3

Distribution: FIRT

Course Fee: Lab fee= \$24

FIRT 2309 FIRE FIGHTING STRATEGIES & TACTICS I

Format: 3 lecture (3 credit hours)

Analysis of the nature of fire problems and selection of initial strategies and tactics including an in-depth study of efficient and effective use of manpower and equipment to mitigate the emergency. End-of-Course Outcomes: Identify potential scenarios in various fire situations; implement strategies and tactics; and describe components of an incident management system.

Credits: 3

Distribution: FIRT

Course Fee: Lab fee= \$24

FIRT 2351 COMPANY FIRE OFFICER

Format: 3 lecture (3 credit hours)

A capstone course covering fire ground operations and supervisory practices. Includes performance evaluation of incident commander, safety officer, public information officer, and shift supervisor duties. End-of-Course Outcomes: Communicate verbally and in writing the procedures needed for effective departmental operation; evaluate inquiries and concerns from the community for the purposes of public education and public relations; and integrate safety plans, policies, and procedures to help ensure compliance with National Fire Protection Association (NFPA) Standard 1500.

Credits: 3

Distribution: FIRT

Offered: Summer

Course Fee: Lab fee= \$24

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