

FIRE TECHNOLOGY ADMINISTRATION (FTAD)

FTAD 1000 Fitness and Health for Firefighters (3 Credits)

Overview of fitness for current and prospective firefighters. Includes physical and mental aspects of performance for optimal achievement on fire department agility test and firefighting task.

Prerequisites: M.D. Physical & Clearance to participate in physical fitness activities

Previous: Legacy Equivalent(s): FTA* 100

FTAD 1001 Fundamentals of Firefighting I (9 Credits)

The first of two courses that provides the essentials of firefighting including fire department operations, firefighting equipment and safety. Emphasis on the chemistry of fire, techniques of firefighting, and utilization of equipment in fire suppression. Physical training is mandatory and is expected daily. The GWCC Certification program is designed to meet all requirements of the State of CT Commission of Fire protection, Firefighter I certification.

Prerequisites: Acceptance into the CT State CC Firefighting I & II Certification Academy - Gateway Campus; M.D. physical and clearance to participate in physical activities, lifting, bending, and carrying up to 30 lbs.

Previous: Legacy Equivalent(s): FTA* 101

FTAD 1002 Civil Service Test Preparation (1 Credits)

Provides preparation for civil service exams given to prospective firefighters. The course covers all aspects of the exam process including written, oral, and physical ability testing. Students will review and practice basic concepts and skills in pre-algebra, writing, reading. Practice written test will be used to help the student identify areas for improvement.

Also covers oral interviewing skills for fire department civil service exams. Students will be shown and provided preparatory information on candidate physical ability testing for fire departments.

Prerequisites: FTAD 1001

Previous: Legacy Equivalent(s): FTA* 103

FTAD 1010 Fire Ground Hydraulics (3 Credits)

Presents the principles of water and water flow, including water supply systems and water flow analysis. Emphasis on the movement of water through fire apparatus, appliances, hose and various nozzles. Covers fire apparatus and pumps, fire streams, fire service pressure calculations, and fixed fire extinguishing systems such as sprinkler and standpipe operations.

Prerequisites: FTAD 1001

Previous: Legacy Equivalent(s): FTA* 110

FTAD 1012 Introduction to Fire Technology (3 Credits)

Provides an overview to fire protection and emergency services, culture and history of emergency services, fire loss analysis, organization and function of public and private fire protection services, fire departments as part of local government, laws and regulations, affecting the fire service, fire service nomenclature, specific fire protection functions, basic fire chemistry and physics, fire strategy and tactics, and life safety initiatives.

Previous: Legacy Equivalent(s): FTA* 112

FTAD 1016 Building Construction (3 Credits)

Provides the components of building construction related to firefighter and life safety. The elements of construction and design of structures, pre-planning fire operations, and operating at emergencies.

Previous: Legacy Equivalent(s): FTA* 116

FTAD 1018 Fire Prevention and Inspection (3 Credits)

Provides fundamental knowledge relating to the field of fire prevention. Topics include: history and philosophy of fire prevention, organization and operation of a fire prevention bureau, use and application of codes and standards, plans review, fire inspections, fire and life safety education, fire investigation.

Prerequisites: FTAD 1012

Previous: Legacy Equivalent(s): FTA* 118

FTAD 1022 Fire Behavior and Combustion (3 Credits)

Explores the theories and fundamentals of how and why fires start, spread, and are controlled.

Prerequisites: FTAD 1012

Previous: Legacy Equivalent(s): FTA* 122

FTAD 1026 Safety and Survival (3 Credits)

Introduces the basic principles and history related to the National Firefighter Life Safety Initiatives, focusing on the need for cultural and behavior change throughout the emergency services.

Prerequisites: FTAD 1012

Previous: Legacy Equivalent(s): FTA* 126

FTAD 1101 Fundamentals of Firefighting II (3 Credits)

Continuation of the essentials of firefighting including fire department operations, firefighting equipment, and safety. Emphasis on the chemistry of fire, techniques of firefighting, and utilization of equipment in fire suppression. Physical training is mandatory and is expected daily. The GWCC Certification program is designed to meet all requirements of the State of CT Commission of Fire protection, Firefighter I and II certification.

Prerequisites: FTAD 1001

Previous: Legacy Equivalent(s): FTA* 102

FTAD 2010 Water Supply and Hydraulics (3 Credits)

Provides a foundation of theoretical knowledge in order to understand the principles to analyze and solve water supply problems.

Prerequisites: FTAD 1012 and MATH 1002 or higher

Previous: Legacy Equivalent(s): FTA* 210

FTAD 2012 Legal Aspects of Emergency Services (3 Credits)

Addresses the federal, state, and local laws that regulate emergency services and include a review of National standards, regulations, and consensus standards.

Prerequisites: FTAD 1012

Previous: Legacy Equivalent(s): FTA* 212

FTAD 2016 Municipal Fire Administration (3 Credits)

Introduces the student to the organization and management of a fire and emergency services department and the relationship of government agencies to the fire service. Emphasis is placed on fire and emergency service, ethics, and leadership from the perspective of the company officer.

Prerequisites: FTAD 1012

Previous: Legacy Equivalent(s): FTA* 216

FTAD 2017 Occupational Safety and Health Administration (3 Credits)

Introduces the basic concepts of occupational health and safety as it relates to emergency service organizations. Topics include risk and hazard evaluation and control procedures for emergency service organizations.

Prerequisites: FTAD 1012

Previous: Legacy Equivalent(s): FTA* 217

FTAD 2109 Fire Investigation I (3 Credits)

Determines points of origin and causes of fires, discriminating between fires of accidental and intentional origin. Presents managing operations at the fire scene, collecting and preserving evidence, recording information, and scientific aids to investigation.

Prerequisites: CHEM 1110 and FTAD 1016

Previous: Legacy Equivalent(s): FTA* 219

FTAD 2207 Fire Protection Systems (3 Credits)

Provides information relating to the features of design and operation of fire alarm systems, water-based fire protection and portable fire extinguishers.

Prerequisites: FTAD 2010

Previous: Legacy Equivalent(s): FTA* 227

FTAD 2209 Fire Investigation II (3 Credits)

This course intends to provide the student with advanced technical knowledge on the rule of law, fire, scene analysis, fire behavior, evidence collection and preservation, scene documentation, case preparation and courtroom testimony.

Prerequisites: FTAD 2109

Previous: Legacy Equivalent(s): FTA* 229

FTAD 2300 Strategy and Tactics (3 Credits)

Provides the principles of fire ground control through utilization of personnel, equipment, and extinguishing agents.

Prerequisites: FTAD 1012

Previous: Legacy Equivalent(s): FTA* 230