Maryland CTE Programs of Study

Fire Fighter II (2025)

GENERAL REQUIREMENTS This course is recommended for students in Grades 10-11 and serves as a continuation of Fire Fighter I. 1

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INTRODUCTION 2

A Career and Technical Education (CTE) instruction provides content aligned with challenging academic standards and relevant technical knowledge and skills for students to further their education and succeed in current or emerging professions. 2.A

B The Career Cluster is dedicated to preparing students for foundational careers in emergency medical services, firefighting, and public safety. This cluster emphasizes the skills needed to protect lives and property during emergencies. Professionals in this field work across diverse settings, including municipal fire departments, emergency medical services agencies, and disaster response teams. 2.B

C The Program of Study offers students foundational knowledge in emergency response, safety protocols, and basic medical and firefighting skills. Students will gain hands-on experience through structured coursework and practical applications, enabling them to explore the essential functions of emergency services careers. 2.C

D Fire Fighter II focuses on developing the skills necessary to achieve Emergency Medical Responder (EMR) certification. Students will explore advanced medical assessment techniques, life support procedures, and patient care practices. Additionally, the course introduces firefighting concepts such as hazardous material operations and scene management. 2.D

E Students will participate in at least two Career-Connected Education and Work-Based Learning experiences in this course, such as attending guest lectures, job shadowing, or site visits with local fire or EMS departments. 2.E

F Students are encouraged to participate in extended learning experiences through aligned Career and Technical Student Organizations (CTSOs). CTSOs are a ocurricular requirement in the Carl D. Perkins Act, and alignment to CTSO ctivities is an expectation for CTE programs in the state of Maryland. 2.F

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KNOWLEDGE AND SKILLS 3

A The student demonstrates advanced skills for career development, maintenance of employability, and successful completion of course outcomes. The student is expected to: 3.A

1. Identify Exhibit advanced communication skills, including the ability to give and receive clear instructions during emergency scenarios. 3.A.1
2. Solve complex problems using advanced critical thinking and decision-making techniques under high-pressure conditions. 3.A.2
3. Demonstrate leadership by coordinating team efforts during mock emergency responses. 3.A.3
4. Understand and apply ethical and legal responsibilities specific to emergency medical professions and operations of first responders. 3.A.4
5. Identify and demonstrate positive work behaviors that enhance employability, including punctuality, professional appearance, and adherence to safety protocols. 3.A.5

B The student identifies career pathways. The student is expected to: 3.B

1. Design a career plan includes a clear pathway for advancement within emergency services, highlighting continuous education and specialization opportunities. 3.B.1
2. Develop a career plan that includes necessary education, certifications, job skills, and experience. 3.B.2
3. Demonstrate effective interview skills for roles in emergency services, with a focus on entry- level positions. 3.B.3
4. Demonstrate effective interview skills for roles. 3.B.4

C The student develops technology and digital literacy skills. The student is expected to: 3.C

1. Use digital tools, including computers, mobile devices, collaboration platforms, and cloud services, to access, manage, and create information. 3.C.1
2. Demonstrate proficiency in using emerging and industry-standard technologies, including skills and applying creative techniques to create visually appealing products. 3.C.2
3. Understand ethical and legal considerations for technology use, including the principles of data protection, copyright, and responsible technology use. 3.C.3

D The student integrates core academic skills into advanced emergency services practices. The student is expected to: 3.D

1. Demonstrate the use of clear communication techniques, both written and verbal, that are consistent with industry standards. 3.D.1
2. Apply English skills by composing detailed incident reports and articulating firefighting strategies and objectives. 3.D.2

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3 Apply scientific principles relevant to emergency services, including understanding human anatomy and physiology, principles of physics in rescue operations, and the chemistry of fire and hazardous materials. 3.D.3

4 Recognize the roles and responsibilities of government agencies, legal systems, and public policies that impact emergency services. This includes knowledge of laws, regulations, and ethical considerations that guide emergency response operations. 3.D.4

5 Utilize mathematical skills, including measurement, ratios, and data interpretation, in emergency response scenarios. 3.D.5

E The student demonstrates knowledge and skills for ensuring safety in emergency scenarios. The student is expected to: 3.E

1 Understand and implement safety protocols to minimize risks during emergency operations. 3.E.1

2 Demonstrate knowledge of personal protective equipment (PPE) and its proper use in emergency situations. 3.E.2

F The student develops physical and mental resilience for emergency services careers. The student is expected to: 3.F

1 Understand strategies for managing stress and preventing burnout in high-stress environments. 3.F.1

2 Practice mindfulness and coping techniques to improve focus and emotional regulation during emergencies. 3.F.2