Maryland CTE Programs of Study

Emergency Response II (2025)

GENERAL REQUIREMENTS This course is recommended for students in Grades 10-11 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 Public Services Career Cluster equips students with advanced skills for careers in emergency medical services, emergency response management, and emergency management. These careers demand a combination of technical expertise, communication, and leadership abilities, preparing students to protect lives and property in diverse and high- pressure environments. 2.B

C The Program of Study offers students opportunities to enhance their foundational knowledge while exploring advanced concepts in response management, risk management, disaster preparedness, and infrastructure protection. This program emphasizes hands-on practice, exposure to real-world security scenarios, and interdisciplinary learning. 2.C

D Emergency Response II focuses on developing advanced skills. Students will explore topics such as disaster recovery planning, critical infrastructure protection, fundamentals of risk analysis. Additionally, the course introduces concepts of emergency operations coordination, including incident command systems and collaborative response strategies. 2.D

E Students will participate in at least two Career-Connected Education and Work-Based Learning experiences, including hands-on practice including job shadowing. 2.E

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

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he student demonstrates advanced skills for career development, maintenance f employability, and successful completion of course outcomes. The student is

expected to: 3.A

1. Exhibit advanced communication skills, including the ability to give and receive clear instructions during emergency and emergency management 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 responses and security operations. 3.A.3
4. Understand and apply ethical and legal responsibilities specific to emergency management, emergency preparedness, and disaster management operations. 3.A.4

B The student identifies various career pathways in the field. The student is expected to: 3.B

1. Develop a career plan that includes the necessary education, certifications, job skills, and experience for specific roles in emergency management sciences. 3.B.1
2. Create a professional resume and portfolio that reflect skills, projects, certifications, and recommendations. 3.B.2
3. Demonstrate effective interview skills for roles in emergency management employment. 3.B.3

C The student develops risk management skills. The student is expected to: 3.C

1. Develop and implement risk assessment plans for critical infrastructure, emphasizing hazard prevention and emergency response. 3.C.1
2. Utilize data and simulation tools to model potential scenarios, evaluate their impact, and design contingency plans for various emergency responses. 3.C.2

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

1. Demonstrate clear written communication by completing detailed incident reports. 3.D.1
2. Use scientific principles to evaluate threats in emergency management scenarios. 3.D.2
3. Apply mathematics to analyze data, such as risk probability models, resource allocation, and logistical planning. 3.D.3

E The student enhances safety awareness and operational readiness. The student is expected to: 3.E

1. Demonstrate safety practices when responding to incidents involving hazardous materials, critical infrastructure disruptions, and natural disasters. 3.E.1
2. Conduct safety inspections of emergency equipment and vehicles, identifying potential hazards. 3.E.2

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3. Demonstrate situational awareness and effective decision-making during simulations. 3.E.3

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

1. Execute Participate in physical fitness activities to maintain the strength and endurance required for emergency response tasks. 3.F.1
2. Understand strategies for managing stress and preventing burnout in complex environments. 3.F.2
3. Practice mindfulness and coping techniques to improve focus and emotional regulation during emergencies. 3.F.3