Colorado CTE

Emergency and Fire Management (2015): Grades 9, 10, 11, 12, Higher Education

Adopted 2015

Execute protocols for handling emergency situations that range from minor medical and fire emergencies to area wide incidents to demonstrate the application and enhancement of key skills used to respond effectively in such incidences. EMFM.01

01. **Model behaviors that demonstrate application of critical thinking skills use to perform in emergency response situations.** EMFM.01.01
    a. Demonstrate basic emergency response knowledge and skills. EMFM.01.01.A
    b. Apply knowledge of emergency response with training subjects. EMFM.01.01.B
    c. Use critical thinking skills in addressing emergency situations. EMFM.01.01.C
    d. Pass written, oral, and practical application tests of emergency situations. EMFM.01.01.D

02. **Participate in training and continuing education efforts commonly used to enhance skills necessary to perform effectively in emergency response situations.** EMFM.01.02
    a. Demonstrate correct emergency response skills. EMFM.01.02.A
    b. Practice emergency response to maintain and upgrade abilities. EMFM.01.02.B
    c. Assess emergency response training performance based on established criteria. EMFM.01.02.C
    d. Create customized emergency response training plans. EMFM.01.02.D

Execute operational and repair requirements when using equipment in order to maintain functional equipment ready for use in fire and medical emergency situations. EMFM.02

01. **Execute the use of maintenance schedules to keep equipment ready for needed job assignments.** EMFM.02.01
    a. Possess basic knowledge of emergency equipment and its use. EMFM.02.01.A
    b. Repair then return defective equipment to service within established criteria. Write an appropriate equipment maintenance plan. EMFM.02.01.B
    c. Perform preventive maintenance and mitigation techniques. EMFM.02.01.C

Examine equipment and summarize the various ap eq Skip to main content

01. **Categorize a variety of ladder trucks, including snorkel, tiller and platform, based upon their application in emergency situations.** EMFM.03.01
    a. Identify a ladder truck. EMFM.03.01.A
    b. Illustrate uses of a ladder truck. EMFM.03.01.B

fire management services in order to ensure one is prepared to use the equipment when needed. EMFM.03

c. Operate a ladder truck correctly. EMFM.03.01.C

d. Identify a tiller truck. EMFM.03.01.D

e. Identify a platform truck. EMFM.03.01.E

f. List the uses of a platform truck. EMFM.03.01.F

g. Compare and contrast various firefighting vehicles. EMFM.03.01.G

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02. **Categorize a variety of pumpers, including standard and quint, based upon their application in emergency situations.** EMFM.03.02

a. Identify a standard pumper. EMFM.03.02.A

b. Illustrate uses of standard pumper. EMFM.03.02.B

c. Use standard pumper correctly. EMFM.03.02.C

d. Identify a quint pumper. EMFM.03.02.D

e. Describe uses of quint pumper. EMFM.03.02.E

f. Operate a quint pumper correctly. EMFM.03.02.F

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03. **Categorize a variety of special units, including cascade, light tower, rescue, command post, heavy rescue, and brush truck based upon their operational guidelines and purpose in emergency situations.** EMFM.03.03

a. Identify a cascade unit. EMFM.03.03.A

b. Explain purpose of cascade unit. EMFM.03.03.B

c. Identify a light tower. EMFM.03.03.C

d. Explain purpose of light tower. EMFM.03.03.D

e. Identify a rescue unit. EMFM.03.03.E

f. Explain purpose of rescue unit. EMFM.03.03.F

g. Identify a command post. EMFM.03.03.G

h. Explain purpose of command post. EMFM.03.03.H

i. Identify a heavy rescue. EMFM.03.03.I

j. Explain purpose of heavy rescue. EMFM.03.03.J

k. Identify a brush truck. EMFM.03.03.K

l. Explain purpose of a brush truck. EMFM.03.03.L

m. Compare and contrast the various pieces of equipment mentioned above. EMFM.03.03.M

Design and implement an appropriate Incident Command System in order to ensure the eff of

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01. **Synthesize and implement an action plan that defines and adequately evaluates the elements of an emergency scene.** EMFM.04.01

a. Analyze what is involved at fire scene that may have contributed to incident. EMFM.04.01.A

b. Analyze fire scene for possible strategic approaches. EMFM.04.01.B

at an incident scene. EMFM.04

c. Notify appropriate public safety agencies for support. EMFM.04.01.C

d. Formulate an action plan. EMFM.04.01.D

e. Implement action plan. EMFM.04.01.E

02. Establish a prioritization system to guide actions during implementation of an action plan in the event of an emergency. EMFM.04.02

a. Select an appropriate action plan. EMFM.04.02.A

b. Select equipment needed. EMFM.04.02.B

c. Determine mitigation effectiveness. EMFM.04.02.C

d. Explain importance of establishing priorities. EMFM.04.02.D

03. Execute steps involved in managing logistical procedures at the incident. EMFM.04.03

a. Identify and differentiate between each piece of equipment used. EMFM.04.03.A

b. Return each piece of equipment to service. EMFM.04.03.B

c. Compose incident reports. EMFM.04.03.C

Recognize materials as hazardous using common codes and icons used in the fire and emergency management environment in order to properly handle potentially hazardous materials. EMFM.05

01. Analyze reference material and catalogs to identify a list of different types of Haz/mat responders that may be utilized in emergency situations. EMFM.05.01

a. Differentiate among three levels of haz/mat certification (operations, technician, and specialist). EMFM.05.01.A

b. Analyze privately owned and governmental based haz/mat clean-up teams. EMFM.05.01.B

Analyze and summarize hazardous materials transportation modes in order to assure the safe transport of substances from fire and medical emergency scenes. EMFM.06

01. Summarize the various modes of transportation for hazardous materials. EMFM.06.01

a. Describe the various means of hazardous materials transportation. EMFM.06.01.A

b. State the minimum pounds of hazardous materials that can be transported without being labeled. EMFM.06.01.B

c. Demonstrate the safety procedures required to transport selected haz/mat. EMFM.06.01.C

d. Plan and designate haz/mat routes. EMFM.06.01.D

Implement public relations plans involving key community au[illegible] fir[illegible] ma[illegible]

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01. Examine facilities to identify opportunities for implementation of a tour program. EMFM.07.01

a. Develop a tour program. EMFM.07.01.A

b. Prepare handout materials for tour groups. EMFM.07.01.B

facilities in order to enhance public awareness and safety in fire and emergency situations. EMFM.07

02. **Develop a public relations program for local fire and emergency management service facilities that reaches out to key audiences such as elementary and secondary school students.** EMFM.07.02
    a. Develop an elementary school program including fire prevention and fire safety topics. EMFM.07.02.A
    b. Implement an elementary school program including fire prevention and fire safety topics. EMFM.07.02.B
    c. Develop a secondary school program including fire prevention and fire safety topics. EMFM.07.02.C
    d. Implement a secondary school program including fire prevention and fire safety topics. EMFM.07.02.D
    e. Participate in question and answer sessions to increase knowledge regarding fire safety and prevention. EMFM.07.02.E

Recommend special operation rescue teams to address situations with unusual needs in order to demonstrate the ability to recognize emergencies that have unusual conditions. EMFM.08

01. **State factors that characterize emergencies where special operations units/teams are needed.** EMFM.08.01
    a. Identify emergencies when a special operations team would be needed. EMFM.08.01.A
    b. Identify the appropriate certifications needed. EMFM.08.01.B
    c. Identify appropriate gear used for unusual emergencies. EMFM.08.01.C
    d. Describe components of special operations unit. EMFM.08.01.D

Examine and summarize the various elements and issues involved in using Preparedness and Response Systems during disaster situations in order to demonstrate understanding of the systems available for managing large scale disasters. EMFM.09

01. **Summarize the national elements of the preparedness system.** EMFM.09.01
    a. List key elements of the National Response Plan. EMFM.09.01.A
    b. List key elements of National Incident Management System (NIMS). EMFM.09.01.B
    c. Compare and contrast the National Response Plan to the NIMS. EMFM.09.01.C

02. **Summarize the elements of the Incident Command System (ICS).** EMFM.09.02
    a. State the overall objectives of the ICS. EMFM.09.02.A
    b. Describe the primary functions of the ICS. EMFM.09.02.B
    c. Compare and contrast the typical agencies that are involved in the ICS. EMFM.09.02.C

03. **Summarize the roles of emergency/first responders in Preparedness and Response Systems during and after disaster situations.** EMFM.09.03
    a. Plan the types of first responders one normally would find at a variety of disaster scenes and their roles. EMFM.09.03.A
    b. Explain the typical command structure. EMFM.09.03.B
    c. Describe the role of fire and emergency services in the ICS. EMFM.09.03.C

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Examine and summarize the key functions and techniques of critical infrastructure protection in order to assure protection of potential targets for terrorism and/or natural disasters. EMFM.10

01. **Summarize the concept of critical infrastructure protection.** EMFM.10.01
    a. Evaluate the sectors that are considered as critical infrastructure. EMFM.10.01.A
    b. Describe how the crippling of one infrastructure might affect others. EMFM.10.01.B
    c. Analyze the role of critical infrastructure protection. EMFM.10.01.C

02. **Summarize the key infrastructure protection tactics for protecting potential targets of terrorists.** EMFM.10.02
    a. Identify one or more potential targets of terrorists in the community or region. EMFM.10.02.A
    b. Identify actual or potential vulnerabilities of a potential terrorist target, through a vulnerability assessment. EMFM.10.02.B
    c. Develop a general plan for protecting the possible target. EMFM.10.02.C

03. **Summarize the key infrastructure protection tactics for protecting potential targets of natural disaster.** EMFM.10.03
    a. Identify one or more potential targets of natural disasters in the community or region. EMFM.10.03.A
    b. Identify actual or potential vulnerabilities of a possible natural disaster target through a vulnerability assessment. EMFM.10.03.B
    c. Develop a general plan for protecting the potential target. EMFM.10.03.C