

Central Arizona College

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Coolidge, AZ 85128
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FSC 140 Firefighter I and II

SUN#: N/A

Prerequisites: EMS125, EMS100, FSC129, FSC134; Students must sign and submit CAC Liability Waiver to Fire Science Program Director (located on CAC FSC website).

Co requisites: None

Catalog Description: Introductory fire science course primarily designed for the fire department recruit. Includes firefighting skills, equipment, and administrative policies, fire department operations, personnel policies, and International Fire Service Accreditation Congress Practical Skills Testing. Prerequisites: EMS125, EMS100, FSC129, FSC134; Students must sign and submit CAC Liability Waiver to Fire Science Program Director (located on CAC FSC website). Recommendations: Students should be in good physical condition and have no existing health conditions which may preclude them from fully participating in the course.

Credit Hours: 11

Effective Term: Fall

Effective Year: 2012

Modalities: Face to Face

Teaching Methods: Lab Lecture

Credit Breakdown: 10 Lectures, 3 Labs

Times for Credit: 1

Grading Option: A/F

Cross Listed: None

- Learning Outcomes:**
1. (Comprehension Level) Explain the organization, services provided, and dispatch policies of the fire department.
 2. (Comprehension Level) Summarize the theory of fire behavior, phases of fire, classes of fires, and the methods of fire control.
 3. (Comprehension Level) Describe the importance of firefighter safety on the fireground and in the fire station, and explain what constitutes protective clothing.
 4. (Application Level) Use proper rope inspection procedure, and tie the standard knots and hitches used by the fire department.
 5. (Comprehension Level) Explain the components of a water supply

system, and demonstrate the proper method of operating a fire hydrant and using foam.

6. (Comprehension Level) Explain the types, functions, and maintenance of fire apparatus and equipment, including safe operation.

7. (Application Level) Use the principles of building construction, types of construction, and how building construction relates to firefighting operations.

8. (Application Level) Use search and rescue techniques in a structure to remove a victim.

9. (Application Level) Ventilate a structure using both horizontal and vertical techniques and the proper equipment.

10. (Application Level) Explain the use and techniques of salvage, using salvage cover throws.

11. (Comprehension Level) Explain proper techniques for overhaul.

12. (Application Level) Explain and demonstrate overall tactical operations applied to a structural fire.

13. (Comprehension Level) Describe the hazards that electricity poses to firefighters and cite specific electrical emergencies.

14. (Application Level) Apply radiological hazards encountered by firefighters and the methods for monitoring exposure levels.

15. (Comprehension Level) Explain the importance of firefighters maintaining a high level of physical and mental fitness.

16. (Comprehension Level) Describe the function of fire prevention and investigation programs in the fire department.

17. (Comprehension Level) Explain various fire code violations.

18. (Comprehension Level) Summarize the organization plan during a given incident, and explain the role of fire companies.

19. (Knowledge Level) Describe the four tactical priorities of a fireground incident.

20. (Knowledge Level) Describe fire department radio communications.

21. (Comprehension Level) Explain the characteristics of the incident management system (IMS), and function within an assigned role within the IMS.

22. (Analysis Level) Identify the threat posed by terrorism, and be able to differentiate between chemical and biological agents/hazards.

Internal/External Standards/Accreditation: Demonstrate proficiency levels of competence in each stated outcome at the level required by the following national, state or local groups:

1. Current National Fire Protection Association (NFPA) 1001 standards for Professional Firefighters.

2. Current International Fire Service Training Association (IFSTA).

3. Current State of Arizona Department of Fire, Building and Life Safety.

4. Current International Association of Fire Chiefs.

5. Current International Fire Service Accreditation Congress (IFSAC) requirements for certification.

www.nfpa.org

GEO: (All)

AGEC: None

Revised: 12/12/2011