Fire/Rescue Science Technology

AAS – Fire/Rescue Science Technology
Competencies

General Education: Upon completion of this program, the graduate can:
(Competencies will be met at the level appropriate to the credential.)

I. Communicate Effectively
   1. Read and listen with comprehension.
   2. Speak and write clearly using standard English.
   3. Interact cooperatively with others using both verbal and non-verbal means.
   4. Demonstrate information processing through basic computer skills.

II. Think Critically
   1. Make connections in learning across the disciplines and draw logical conclusions.
   2. Demonstrate problem solving through interpreting, analyzing, summarizing, and/or integrating a variety of materials.
   3. Use mathematics to organize, analyze, and synthesize data to solve a problem.

III. Learn Independently
   1. Use appropriate search strategies and resources to find, evaluate, and use information.
   2. Make choices based upon awareness of ethics and differing perspectives/ideas.
   3. Apply learning in academic, personal, and public situations.
   4. Think creatively to develop new ideas, processes, or products.

IV. Examine Relationships in Diverse and Complex Environments
   1. Recognize the relationship of the individual to human heritage and culture.
   2. Demonstrate an awareness of the relationship of the individual to the biological and physical environment.
   3. Develop an awareness of self as an individual member of a multicultural global community.

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Technical Competencies/Learning Outcomes:

1. Demonstrated competency of knowledge and skills which meets or exceeds the level recommended by NFPA 1001 related to Administration and Organization, Firefighter I and II level.
2. Ability to implement the National Incident Management System (NIMS) to the level of successfully completing the following Federal Emergency Management Agency (FEMA) courses: ICS-100, ICS-200, ICS-300, ICS-400, and ICS 700
3. Demonstrated competency of knowledge and skills which meets or exceeds the level recommended by NFPA 1001 related to Safety, Firefighter I.
4. Demonstrated competency of knowledge and skills which meets or exceeds the level recommended by NFPA 1001 related to Fire Behavior, Firefighter I level.
5. Demonstrated competency of knowledge and skills which meets or exceeds the level recommended by NFPA 1001 related to Portable Fire Extinguishers, Firefighter I level.
6. Demonstrated competency of knowledge and skills as stated in NFPA 1001 which meets or exceeds the level recommended by Personal Protective Equipment, Firefighter I level.
7. Demonstrated competency of knowledge and skills which meets or exceeds the level recommended by Fire Hose, Nozzles, and Appliances as stated in NFPA 1001, Firefighter I level.
8. Demonstrated competency of knowledge and skills which meets or exceeds the level recommended by NFPA 1001 related to Ropes and Knots, Firefighter I level.
9. Demonstrated competency of knowledge and skills which meets or exceeds the level recommended by NFPA 1001 related to Ground Ladders, Firefighter I level.
10. Demonstrated awareness of NFPA 1003, Standard for Airport Firefighter Professional Requirements and primary knowledge and skills required to make an initial response to an aircraft incident.
11. Demonstrated competency in First Aid techniques and valid certification through an agency in Cardiopulmonary Resuscitation (CPR) and use of an Automated External Defibrillator (AED).
12. Possess awareness and basic knowledge of Bloodborne Pathogens (BBP) issues as stated in Occupational Safety and Health Administration (OSHA) 1910.1030.
13. Demonstrated competency of knowledge and skills which meets or exceeds the level recommended by NFPA 1001 related to Building Construction, Firefighter I and II levels.
14. Demonstrated awareness of NFPA 1051, Standard for Wildland Firefighter Professional Requirements and primary knowledge and skills required to make an initial response to a wildland/urban interface incident.

15. Demonstrated competency of knowledge and skills which meets or exceeds the level recommended by NFPA 1001 related to Ventilation, Firefighter I level.
16. Demonstrated competency of knowledge and skills which meets or exceeds the level recommended by NFPA 1001 related to Water Supply, Firefighter I and II levels.
17. Demonstrated competency of knowledge and skills which meets or exceeds the level recommended by NFPA 1001 related to Rescue, Firefighter I and II levels.
18. Demonstrated competency of knowledge and skills which meets or exceeds the level recommended NFPA 1001 related to Foam Fire Streams, Firefighter II level.
19. Demonstrated competency of knowledge and skills which meets or exceeds the level recommended NFPA 1001 related to Fire Alarms and Communications, Firefighter I and II levels.
20. Demonstrated competency of knowledge and skills at the Awareness, Operations, and Technician levels as stated in NFPA 472, Standard for Competence of Responders to Hazardous Materials.
21. Demonstrated competency of knowledge and skills which meets or exceeds the level recommended NFPA 1001 related to Loss Control-Salvage, Firefighter I level.
22. Demonstrated competency of knowledge and skills which meets or exceeds the level recommended NFPA 1001 related to Loss Control-Overhaul, Firefighter I level.
23. Demonstrated competency of knowledge and skills which meets or exceeds the level recommended NFPA 1001 related to Fire Control, Firefighter I and II levels.
24. Demonstrated competency of knowledge and skills which meets or exceeds the level recommended NFPA 1001 related to Forcible Entry, Firefighter I level.
25. Demonstrated competency of knowledge and skills which meets or exceeds the level recommended NFPA 1001 related to Sprinklers, Firefighter I level.
26. Demonstrated competency of knowledge and skills which meets or exceeds the level recommended NFPA 1001 related to Fire Prevention/Public Education, Firefighter I and II levels.
27. Demonstrated competency of knowledge and skills which meets or exceeds the level recommended NFPA 1001 related to Fire Investigation, Firefighter II level.
28. Demonstrated competency of knowledge and skills which meets or exceeds the level recommended in NFPA 1003, Standard on Fire Apparatus Driver/Operator Professional Qualifications.
29. Demonstrated competency of knowledge and skills which meets or exceeds the level recommended in NFPA 1041, Standard for Fire Service Instructor Professional Qualifications.
30. Demonstrated competency of knowledge and skills which meets or exceeds the level recommended in NFPA 1031, Standard for Fire Service Officer Professional Qualifications, Fire Officer I and II
31. Demonstrated competency of knowledge and skills which meets or exceeds the level recommended by Emergency Medical Technician-First Responder, Department of Transportation (DOT) National Standard Curriculum.
32. Demonstrated competency of knowledge and skills which meets or exceeds the level recommended by Emergency Medical Technician-Basic, Department of Transportation (DOT) National Standard Curriculum.