



Fire Science 2018-19 State Results

Statistics data includes students taking exams in the original testing period and includes students retaking exams. The Score Distribution and Standards performance tables show results for original testing period only for accurate evaluation of live testing performance.

Statistics

Categories	Performance
Participants	34
Pass Rate	15
Pass Percentage	44.1%
Average Score	63.4
Cut Score	65

Score Distribution

% Range	# Scores in Range
0-15	0
15-25	0
25-35	0
35-45	0
45-55	9
55-65	13
65-75	11
75-85	1
85-95	0
95-100	0

Fire Science

1) CONTENT STANDARD 1.0 : Relate Academic Foundations to achieve skill requirement	76.05%
3) Performance Standard 1.3 : Apply Concepts of Science Knowledge	76.05%
2) 1.3.2 Apply scientific method in qualitative and quantitative analysis	47.06%
3) 1.3.3 Recognize elements and their various states of matter	76.47%
4) 1.3.4 Describe the fire tetrahedron	100%
5) 1.3.5 Describe transmission of heat	73.53%
6) 1.3.6 Explain various states of fuel	44.12%
7) 1.3.7 Outline the classification of fire A, B, C, D, K	92.65%
8) 1.3.8 Explain the phases of fire growth	64.71%
10) 1.3.10 Describe fire control theory	83.82%
4) CONTENT STANDARD 4.0 : USE INFORMATION TECHNOLOGY TOOLS	55.88%
2) Performance Standard 4.2 : Organize and Manipulate Tasks	55.88%
4) 4.2.4 Facilitate group work through delegation and management	55.88%
5) CONTENT STANDARD 5.0 : IDENTIFY KEY ORGANIZATIONAL SYSTEMS	66.18%
1) Performance Standard 5.1 : Describe the Scope of Departmental Organizations	64.12%
3) 5.1.3 Explain fire service history	67.65%
6) 5.1.6 Complete NIMS ICS 100, 200, 700	61.76%
2) Performance Standard 5.2 : Implement Quality Control Systems and Practices	69.61%
1) 5.2.1 Create quality control standards and practices	85.29%
2) 5.2.2 Use national and statewide standards	26.47%
3) 5.2.3 Understand global context of public safety careers	97.06%
6) CONTENT STANDARD 6.0 : UNDERSTAND THE IMPORTANCE OF HEALTH, SAFETY AND THE ENVIRONMENT	58.27%
1) Performance Standard 6.1 : Implement Personal and Departmental Safety Regulations	63.57%
1) 6.1.1 Assess workplace conditions with regard to safety and health	65.13%
2) 6.1.2 Identify safety hazards	79.41%
3) 6.1.3 Select appropriate personal protective equipment	76.47%
4) 6.1.4 Employ safety hierarchy and communication system	38.24%
6) 6.1.6 Maintain an adequate level of health and wellness	83.33%
7) 6.1.7 Demonstrate the care of personal protective equipment	47.06%

9) 6.1.9 Identify the components of a self-contained breathing apparatus (SCBA)	44.12%
10) 6.1.10 Describe respiratory hazards and when an SCBA shall be used (IDLH)	54.12%
11) 6.1.11 Practice donning and doffing SCBA within one minute	57.35%
12) 6.1.12 Explain principles of Air Management consistent with NFPA 1404	79.41%
2) Performance Standard 6.2 : Employee Rights and Responsibilities	11.76%
1) 6.2.1 Identify rules, laws and governing bodies designed to promote safety and health	11.76%
3) Performance Standard 6.3 : Employ Emergency Procedures and Disaster Response Plans	40%
1) 6.3.1 Complete an EMR (Emergency Medical Responder) program or complete First Aid and CPR training that meets the requirements of AHA	13.24%
6) 6.3.6 Use a portable fire extinguisher safely, PASS method of application	97.06%
7) 6.3.7 Explain how to inspect a portable fire extinguisher	38.24%
7) CONTENT STANDARD 7.0 : UNDERSTAND IMPORTANCE OF ETHICS AND LEGAL RESPONSIBILITIES	60.88%
1) Performance Standard 7.1 : Apply Ethical Reasoning to Workplace Situations	61.76%
1) 7.1.1 Understand legal responsibilities and employer policies	58.82%
2) 7.1.2 Identify personal and long-term workplace consequences for unethical behaviors	67.65%
3) 7.1.3 Create a plan to deal with legal and ethical considerations	61.76%
2) Performance Standard 7.2 : Interpret Written Agency Policies And Procedures	60.29%
1) 7.2.1 Review departmental policies and procedures	60.29%
2) 7.2.2 Discuss the affect of policies and procedures on a specific work situation	76.47%
3) 7.2.3 Create standard operating procedures for a department or agency	41.18%
4) 7.2.4 Examine annual firefighter injuries and fatalities	38.24%
5) 7.2.5 Identify safety standards related to fire services, such as NFPA 1500 and OSHA	85.29%
8) CONTENT STANDARD 8.0 : Demonstrate FIRE SUPPRESSION TACTICS AND EQUIPMENT	55.25%
1) Performance Standard 8.1 : Employing Water Supply Theory	30.15%
2) 8.1.2 Explain different means of moving water, including friction loss, appliances and fire service hose	28.43%

4) 8.1.4 Describe suppressing class A, B, C, D and K fires	35.29%
2) Performance Standard 8.2 : Understand Concepts Of Company Operations	64.22%
1) 8.2.1 Explain tactical priorities in order	35.29%
2) 8.2.2 Describe engine, ladder and rescue company functions on fires	29.41%
3) 8.2.3 Describe the reasons for fire ground ventilation	88.24%
4) 8.2.4 Define the proper procedures and care for fire service ground ladders	85.29%
5) 8.2.5 Describe the reasons and types of forcible entry	54.41%
6) 8.2.6 Describe the reasons and types of salvage operations	65.29%
3) Performance Standard 8.3 : Apply Concepts of Additional Tactics and Techniques	45.1%
1) 8.3.1 Complete NWCG S130, 190, L180 or equivalent (wildland firefighting)	14.71%
2) 8.3.2 Describe the reasons for vehicle extrication	75%
3) 8.3.3 Apply the concepts of live fire training (when possible)	26.47%
4) 8.3.4 Complete a Technical Rescue Awareness class per NVSFM	35.29%
5) 8.3.5 Meet requirements to sign off as completed from the Firefighter Manipulative Skills Manual as required by NVSFM/NFPA	44.12%
9) CONTENT STANDARD 9.0 : Understand Wildland Fire Behavior and Suppression	69.33%
1) Performance Standard 9.1 : Apply Concepts of Basic Fire behavior	73.53%
1) 9.1.1 Identify and discuss the fire triangle, as it pertains to wildland fire	100%
2) 9.1.2 Analyze the environmental factors of fuel, weather and topography that affect the spread of wildland fire	100%
3) 9.1.3 Connect the contributing factors that indicate the potential for increased fire behavior and compromised safety	76.47%
4) 9.1.4 Describe causes of extreme fire behavior (long range spotting, crowning and fire whirls) due to weather, fuels or topography or S290 online	17.65%
2) Performance Standard 9.2 : Apply Concepts of Basic Wildland Fire Suppression	63.73%
1) 9.2.1 Explain the LCES (Lookouts Communications Escape Routes and Safety Zones) and how it relates to standard firefighting orders	73.53%
2) 9.2.2 Apply concepts of fireline construction to proper standards, applying various methods	91.18%
4) 9.2.4 Discuss fire suppression techniques with the use of water	26.47%