



2022-2023 Technical Skills Assessment Firefighting

Results by Standard

| Legend (%) | | |
|------------|--------|---------|
| 0-50% | 51-75% | 76-100% |

| Assessment: Firefighting | % Correct | % Correct | % Correct |
|---|-----------|-----------|-----------|
| Number tested: 41 | 20-21 | 21-22 | 22-23 |
| Program 1: Content Standard 1.0: RELATE ACADEMIC FOUNDATIONS TO ACHIEVE SKILL REQUIREMENT | 77.27% | 76.36% | 78.49% |
| Duty 1: Performance Standard 1.1: Apply Concepts of Language Arts Knowledge | 83.33% | 83.33% | 82.95% |
| Standard 1: 1.1.1. Model behaviors that demonstrate active listening. | 83.33% | 83.33% | 82.95% |
| Duty 2: Performance Standard 1.2: Apply Concepts of Mathematics Knowledge | 88.64% | 90.91% | 89.53% |
| Standard 2: 1.2.2. Demonstrate knowledge of arithmetic operations. | 77.27% | 81.82% | 81.40% |
| Standard 3: 1.2.3. Formulate data and measurements to solve a problem. | 100.00% | 100.00% | 97.67% |
| Duty 3: Performance Standard 1.3: Apply Concepts of Science Knowledge | 74.55% | 73.03% | 76.12% |
| Standard 2: 1.3.2. Apply scientific method in qualitative and quantitative analysis. | 40.91% | 36.36% | 25.58% |
| Standard 3: 1.3.3. Recognizer elements and their various states of matter. | 90.91% | 81.82% | 79.07% |
| Standard 4: 1.3.4 Describe the fire tetrahedron. | 90.91% | 81.82% | 88.37% |
| Standard 5: 1.3.5 Describe transmission of heat. | 84.09% | 81.82% | 90.70% |
| Standard 6: 1.3.6 Explain various states of "fuel" | 59.09% | 63.64% | 67.44% |
| Standard 7: 1.3.7 Outline the classification of fire - A,B,C,D,K. | 80.68% | 79.55% | 84.88% |
| Standard 8: 1.3.8 Explain the phases of fire growth. | 59.09% | 63.64% | 58.14% |
| Standard 9: 1.3.9 Describe factors that affect fire development. | 70.45% | 79.55% | 75.58% |
| Standard 10: 1.3.10 Describe fire control theory. | 72.73% | 63.64% | 75.58% |
| Program 2: CONTENT STANDARD 2.0: DEMONSTRATE THE USE OF COMMUNICATION | 67.05% | 65.91% | 74.42% |
| Duty 1: Performance Standard 2.1: Select and Employ Appropriate Reading and Communication Strategies | 75.00% | 77.27% | 87.21% |
| Standard 2: 2.1.2 Demonstrate the ability to read and fully comprehend a written document. | 86.36% | 81.82% | 100.00% |
| Standard 4: 2.1.4 Transcribe information, data and apply information. | 63.64% | 72.73% | 74.42% |
| Duty 3: Performance Standard 2.3: Create Verbal and Nonverbal Behaviors | 59.09% | 54.55% | 61.63% |
| Standard 4: 2.3.4. Exhibit public relations skill. | 59.09% | 54.55% | 61.63% |
| Program 3: CONTENT STANDARD 3.0: DEMONSTRATE PROBLEM SOLVING AND CRITICAL THINKING | 59.09% | 52.27% | 55.81% |
| Duty 1: Performance Standard 3.1: Utilize Thinking Skills Independently and As a Team | 59.09% | 52.27% | 55.81% |

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|--|--------------------|--------------------|--------------------|
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| Standard 3: 3.1.3. Identify alternatives using problem solving and critical thinking skills. | 59.09% | 52.27% | 55.81% |
| Program 4: CONTENT STANDARD 4.0: USE OF INFORMATION TECHNOLOGY TOOLS | 72.73% | 54.55% | 53.49% |
| Duty 2: Performance Standard 4.2: Organize and Manipulate Tasks | 72.73% | 54.55% | 53.49% |
| Standard 4: 4.2.4. Facilitate group work through delegation and management. | 72.73% | 54.55% | 53.49% |
| Program 5: CONTENT STANDARD 5.0: IDENTIFY KEY ORGANIZATIONAL SYSTEMS | 72.73% | 62.88% | 74.42% |
| Duty 1: Performance Standard 5.1: Describe the Scope of Departmental Organizations. | 78.18% | 70.00% | 80.93% |
| Standard 3: 5.1.3. Explain the history of the fire service industry. | 79.55% | 72.73% | 84.88% |
| Standard 4: 5.1.4. Describe the fire service industries mission, organizational structure including chain of command, apparatus, crews, and duties. | 95.45% | 72.73% | 88.37% |
| Standard 6: 5.1.6 Complete Incident Command System (ICS) and the National Incident Management System (NIMS) 100, 200, 700 and 800. | 68.18% | 65.91% | 73.26% |
| Duty 2: Performance Standard 5.2: Implement Quality Control Systems and Practices | 45.45% | 27.27% | 41.86% |
| Standard 2: 5.2.2. Use national and statewide standards for quality control. | 45.45% | 27.27% | 41.86% |
| Program 6: CONTENT STANDARD 6.0: UNDERSTAND THE IMPORTANCE OF HEALTH, SAFETY AND THE ENVIRONMENT | 66.76% | 64.63% | 71.29% |
| Duty 1: Performance Standard 6.1: Implement Personal and Departmental Safety Regulations. | 67.31% | 65.21% | 73.97% |
| Standard 1: 6.1.1. Assess workplace conditions with regard to safety and health. | 66.67% | 63.64% | 81.01% |
| Standard 2: 6.1.2. Identify safety hazards. | 61.36% | 59.09% | 67.44% |
| Standard 3: 6.1.3. Select appropriate personal protective equipment. | 81.82% | 95.45% | 97.67% |
| Standard 4: 6.1.4 Employ safety hierarchy and communication systems. | 56.82% | 45.45% | 52.33% |
| Standard 5: 6.1.5 Implement safety precautions to maintain safe workplace. | 86.36% | 68.18% | 79.07% |
| Standard 6: 6.1.6 Meet industry health and fitness qualifications and standards. | 75.76% | 80.30% | 87.60% |
| Standard 7: 6.1.7 Demonstrate the care of personal protective equipment (PPE). | 54.55% | 72.73% | 58.14% |
| Standard 9: 6.1.9 Identify the components of a self-contained breathing apparatus (SCBA). | 77.27% | 72.73% | 79.07% |
| Standard 10: 6.1.10 Describe respiratory hazards as well as when SCBA shall be "used | 60.91% | 62.73% | 65.12% |
| Standard 11: 6.1.11 Practice donning and doffing SCBA within one minute. | 56.82% | 52.27% | 56.98% |
| Standard 12: 6.1.12 Explain principles of air management consistent with NFPA 1404. | 84.09% | 68.18% | 90.70% |
| Duty 2: Performance Standard 6.2: Employee Rights and Responsibilities | 50.00% | 50.00% | 44.19% |
| Standard 1: 6.2.1 Identify rules, laws and governing bodies designed to promote safety and health. | 50.00% | 50.00% | 44.19% |
| Duty 3: Performance Standard 6.3: Employ Emergency Procedures and Disaster Response Plans | 67.27% | 64.55% | 62.79% |
| Standard 1: 6.3.1 Complete an EMR (Emergency Medical Responder) program of First Aid and CPR training that meets the requirements of the American Heart Association (AHA). | 63.64% | 72.73% | 62.79% |

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| Standard 6: 6.3.6 Use a portable fire extinguisher safely; pull, aim, squeeze and sweep (PASS) method of application. | 86.36% | 81.82% | 100.00% |
| Standard 7: 6.3.7 Explain how to inspect a portable fire extinguisher. | 61.36% | 47.73% | 44.19% |
| Program 7: CONTENT STANDARD 7.0: UNDERSTAND THE IMPORTANCE OF ETHICS AND LEGAL RESPONSIBILITIES. | 76.26% | 68.18% | 74.68% |
| Duty 1: Performance Standard 7.1: Apply Ethical Reasoning to Workplace Situations. | 68.18% | 69.32% | 67.44% |
| Standard 1: 7.1.1 Understand legal responsibilities and employer policies. | 77.27% | 68.18% | 66.28% |
| Standard 2: 7.1.2 Identify personal and long-term workplace consequences for unethical behaviors. | 45.45% | 59.09% | 58.14% |
| Standard 3: 7.1.3 Create a plan to deal with legal and ethical considerations. | 72.73% | 81.82% | 79.07% |
| Duty 2: Performance Standard 7.2: Interpret Written Agency Policies and Procedures | 82.73% | 67.27% | 80.47% |
| Standard 1: 7.2.1 Demonstrate understanding of departmental policies and procedures. | 88.64% | 81.82% | 90.70% |
| Standard 3: 7.2.3 Demonstrate understanding of standard operating procedures for a department or agency. | 95.45% | 77.27% | 86.05% |
| Standard 4: 7.2.4 Compare annual firefighter injuries and fatalities data for potential policy and procedural changes. | 45.45% | 18.18% | 39.53% |
| Standard 5: 7.2.5 Identify safety standards related to fire services, such as National Fire Protection Association (NFPA) 1500 and Occupational Safety and Health Administration (OSHA). | 95.45% | 77.27% | 95.35% |
| Program 8: CONTENT STANDARD 8.0: DEMONSTRATE FIRE SUPPRESSION TACTICS AND EQUIPMENT | 63.29% | 62.94% | 70.57% |
| Duty 1: Performance Standard 8.1: Employ Water Supply Theory | 40.00% | 56.36% | 50.23% |
| Standard 1: 8.1.1 Describe and perform sources of water supplies and water theory. | 54.55% | 72.73% | 48.84% |
| Standard 2: 8.1.2 Explain different means of moving water, including friction loss, appliances and fire service hose. | 36.36% | 45.45% | 54.26% |
| Standard 4: 8.1.4 Describe suppressing class A, B, C, D, and K fires. | 36.36% | 72.73% | 39.53% |
| Duty 2: Performance Standard 8.2: Understand Concepts of Company Operations | 69.52% | 65.24% | 75.65% |
| Standard 1: 8.2.1 Describe in order tactical priorities. | 59.09% | 63.64% | 74.42% |
| Standard 2: 8.2.2 Describe and demonstrate engine, ladder and rescue company functions on fires. | 31.82% | 27.27% | 30.23% |
| Standard 3: 8.2.3 Describe and demonstrate the reasons for fire ground ventilation. | 77.27% | 62.50% | 79.07% |
| Standard 4: 8.2.4 Define and perform the proper procedures and care for fire service ground ladders. | 81.82% | 63.64% | 76.74% |
| Standard 5: 8.2.5 Describe the reasons and types of forcible entry. | 78.18% | 80.00% | 82.33% |
| Standard 6: 8.2.6 Describe the reasons and types of salvage operations. | 61.82% | 60.91% | 75.35% |
| Duty 3: Performance Standard 8.3: Apply Concepts of Additional Tactics and Techniques | 65.91% | 61.36% | 74.42% |
| Standard 2: 8.3.2 Describe reasons and procedures for vehicle extrication. | 84.09% | 68.18% | 87.21% |

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|---|-----------|-----------|-----------|
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| Standard 3: 8.3.3 Apply to concepts of live fire training (when possible). | 40.91% | 63.64% | 58.14% |
| Standard 5: 8.3.5 Meet requirements to sign off as completed from the Firefighter Manipulative Skills Manual. | 54.55% | 45.45% | 65.12% |