

Standards Correlations

Firefighting I (8705)

Task	SOL Correlations
Demonstrating Personal Qualities and Abilities	
Demonstrate creativity and innovation.	English: 6.1, 6.3, 6.4, 6.6, 6.7, 6.9, 7.1, 7.3, 7.4, 7.6, 7.7, 7.9, 8.1, 8.3, 8.4, 8.6, 8.7, 8.9, 9.1, 9.5, 9.6, 9.8, 10.1, 10.5, 10.6, 10.8, 11.1, 11.5, 11.6, 11.8, 12.1, 12.5, 12.6, 12.8 History and Social Science: CE.1, CE.4, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WG.4, WHI.1, WHII.1 Mathematics: 6.1, 6.2, 6.3, 6.4, 6.5, 6.6, 6.7, 6.10, 6.11, 6.12, 7.2, 7.3, 7.8, 7.9, 8.2, 8.4, 8.6, 8.7, 8.11, 8.12, 8.17, 8.18, A.9, AFDA.3, AFDA.4, AFDA.5, AFDA.6, AFDA.7, AFDA.8, AII.9, COM.1, COM.3, COM.4, COM.5, COM.8, DM.7, DM.1*, DM.10, DM.2*, DM.3*, PS.3*, PS.4*, PS.7*, PS.9*, PS.10* Science: 6.1, BIO.1, CH.1, ES.1, LS.1, PS.1
Demonstrate critical thinking and problem solving.	English: 6.1, 6.3, 6.4, 6.5, 6.6, 6.7, 6.9, 7.1, 7.3, 7.4, 7.5, 7.6, 7.7, 7.9, 8.1, 8.3, 8.4, 8.5, 8.6, 8.7, 8.9, 9.1, 9.5, 9.6, 9.8, 10.1, 10.5, 10.6, 10.8, 11.1, 11.5, 11.6, 11.8, 12.1, 12.5, 12.6, 12.8 History and Social Science: CE.1, CE.4, CE.11, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WG.4, WHI.1, WHII.1 Mathematics: 6.1, 6.2, 6.3, 6.4, 6.5, 6.6, 6.10, 6.11, 7.2, 7.3, 7.8, 7.12, 7.13, 8.2, 8.4, 8.8, 8.9, 8.10, 8.11, A.8, A.9, G.1, G.13, G.14, AFDA.3, AFDA.5, AFDA.8, AII.9, AII.10, AII.11, COM.1, COM.3, COM.4, COM.5, COM.8, DM.4, DM.7, DM.1*, DM.2*, DM.3*, DM.9*, PS.9*, PS.10* Science: 6.1, BIO.1, CH.1, ES.1, LS.1, PS.1

Task	SOL Correlations
Demonstrate initiative and self-direction.	English: 6.1, 6.4, 6.6, 6.7, 6.9, 7.1, 7.4, 7.6, 7.7, 7.9, 8.1, 8.4, 8.6, 8.7, 8.9, 9.1, 9.5, 9.6, 9.8, 10.1, 10.5, 10.6, 10.8, 11.1, 11.5, 11.6, 11.8, 12.1, 12.5, 12.6, 12.8 History and Social Science: CE.1, CE.4, CE.11, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1
Demonstrate integrity.	English: 6.1, 7.1, 8.1, 9.1, 9.5, 10.1, 10.5, 11.1, 11.5, 12.1, 12.5 History and Social Science: CE.1, CE.3, CE.4, GOVT.1, GOVT.16, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1
Demonstrate work ethic.	English: 6.1, 7.1, 8.1, 9.1, 10.1, 11.1, 12.1 History and Social Science: CE.1, CE.4, CE.14, GOVT.1, GOVT.16, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Science: CH.1
Demonstrating Interpersonal Skills	
Demonstrate conflict-resolution skills.	English: 6.1, 6.2, 6.4, 6.6, 6.7, 6.9, 7.1, 7.2, 7.4, 7.6, 7.7, 7.9, 8.1, 8.2, 8.4, 8.6, 8.7, 8.9, 9.1, 10.1, 11.1, 12.1 History and Social Science: CE.1, CE.4, GOVT.1, USI.1, VUS.1
Demonstrate listening and speaking skills.	English: 6.1, 6.2, 6.4, 6.6, 7.1, 7.2, 7.4, 7.6, 8.1, 8.2, 8.4, 8.6, 9.1, 10.1, 11.1, 12.1 History and Social Science: CE.1, CE.4, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1
Demonstrate respect for diversity.	English: 6.1, 7.1, 8.1, 9.1, 10.1, 11.1, 12.1 History and Social Science: CE.1, CE.3, CE.4, GOVT.1, GOVT.16, USI.1, USII.1, USII.9, VUS.1, VUS.13, WG.1, WHI.1, WHII.1
Demonstrate customer service skills.	English: 6.1, 6.4, 6.7, 7.1, 7.4, 7.7, 8.1, 8.4, 8.7, 9.1, 9.5, 9.6, 10.1, 10.5, 10.6, 11.1, 11.5, 11.6, 12.1, 12.5, 12.6 History and Social Science: CE.1, CE.4, GOVT.1, GOVT.16, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1
Collaborate with team members	English: 6.1, 7.1, 8.1, 9.1, 10.1, 11.1, 12.1 History and Social Science: CE.1, CE.3, CE.4, GOVT.1, GOVT.16, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1

Task	SOL Correlations
Demonstrating Professional Competencies	
Demonstrate big-picture thinking.	English: 6.1, 6.4, 7.1, 7.4, 8.1, 8.4, 9.1, 9.5, 10.1, 10.5, 11.1, 11.5, 12.1, 12.5 History and Social Science: CE.1, CE.4, CE.12, GOVT.1, GOVT.15, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1
Demonstrate career- and life-management skills.	English: 6.1, 6.7, 7.1, 7.7, 8.1, 8.7, 9.1, 9.6, 10.1, 10.6, 11.1, 11.6, 12.1, 12.6 History and Social Science: CE.1, CE.4, CE.12, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: 8.4
Demonstrate continuous learning and adaptability.	English: 6.1, 6.4, 6.7, 6.9, 7.1, 7.4, 7.7, 7.9, 8.1, 8.4, 8.7, 8.9, 9.1, 9.5, 9.6, 9.8, 10.1, 10.5, 10.6, 10.8, 11.1, 11.5, 11.6, 11.8, 12.1, 12.5, 12.6, 12.8 History and Social Science: CE.1, CE.3, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Science: BIO.1, CH.1, LS.1, PH.1, PH.4, PS.1
Manage time and resources.	English: 6.1, 6.2, 6.4, 6.7, 6.9, 7.1, 7.2, 7.4, 7.7, 7.9, 8.1, 8.2, 8.4, 8.7, 8.9, 9.1, 9.5, 9.6, 9.8, 10.1, 10.5, 10.6, 10.8, 11.2, 11.5, 11.6, 11.8, 12.2, 12.5, 12.6, 12.8 History and Social Science: CE.1, CE.4, CE.11, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: 6.10, 6.11, 6.12, 7.2, 7.3, 7.8, 7.9, 7.10, 7.11, 7.12, 7.13, 8.4, 8.11, 8.12, 8.13, 8.14, 8.17, 8.18, A.4, A.5, A.8, A.9, AFDA.3, AFDA.4, AFDA.5, AFDA.6, AFDA.7, AFDA.8, COM.1, COM.3, COM.5, COM.8
Demonstrate information-literacy skills.	English: 6.1, 6.2, 6.4, 6.6, 6.7, 6.9, 7.1, 7.2, 7.3, 7.4, 7.6, 7.7, 7.9, 8.1, 8.2, 8.3, 8.4, 8.6, 8.7, 8.9, 9.2, 9.5, 9.6, 9.8, 10.2, 10.5, 10.6, 10.8, 11.2, 11.5, 11.6, 11.8, 12.2, 12.5, 12.6, 12.8 History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: 6.10, 6.11, 7.8, 7.9, 8.11, 8.12, A.8, A.9, AFDA.3, AFDA.4, AFDA.6, AFDA.7, AFDA.8, DM.8, PS.1*, PS.2*, PS.3*, PS.4*, PS.7*, PS.8*, PS.9*, PS.10* Science: 6.1, BIO.1, CH.1, ES.1, LS.1, PH.1, PS.1

Task	SOL Correlations
Demonstrate an understanding of information security.	English: 6.1, 6.2, 6.3, 6.4, 6.6, 6.7, 6.8, 6.9, 7.1, 7.2, 7.3, 7.4, 7.6, 7.7, 7.8, 7.9, 8.1, 8.2, 8.3, 8.4, 8.6, 8.7, 8.8, 8.9, 9.1, 9.2, 9.5, 9.6, 9.8, 10.1, 10.2, 10.5, 10.6, 10.8, 11.1, 11.2, 11.5, 11.6, 11.8, 12.1, 12.2, 12.5, 12.6, 12.8 History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: COM.10
Maintain working knowledge of current information-technology (IT) systems.	English: 6.1, 6.3, 6.4, 6.6, 6.9, 7.1, 7.3, 7.4, 7.6, 7.9, 8.1, 8.3, 8.4, 8.6, 8.9 History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: 7.8, COM.1, COM.2, COM.7, COM.9, COM.10, COM.11, COM.16, COM.18, PS.17 Science: BIO.1, CH.1, ES.1, PH.1
Demonstrate proficiency with technologies, tools, and machines common to a specific occupation.	History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: 6.10, 6.11, 7.9, 8.4, A.7, A.8, A.9, AFDA.1, AFDA.3, AFDA.5, AII.4, AII.7, AII.9, COM.1, COM.7, COM.10, COM.11, COM.12, COM.16 Science: CH.1, ES.1, LS.1, PH.1, PS.1
Apply mathematical skills to job-specific tasks.	English: 6.4, 6.6, 6.7, 7.4, 7.6, 7.7, 8.4, 8.6, 8.7, 9.5, 9.6, 10.5, 10.6, 11.5, 11.6, 12.5, 12.6 History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: 6.1, 6.2, 6.5, 6.6, 6.12, 6.13, 6.14, 7.1, 7.2, 7.3, 7.4, 7.5, 7.6, 7.8, 7.9, 7.11, 7.12, 7.13, 8.4, 8.5, 8.6, 8.8, 8.9, 8.10, 8.11, 8.12, 8.13, 8.14, 8.15, 8.16, 8.17, 8.18, A.1, A.3, A.4, A.5, A.7, A.8, A.9, AFDA.1, AFDA.3, AFDA.5, AFDA.8, AII.3, AII.7, AII.9, AII.10, COM.1, COM.7 Science: 6.1, BIO.1, CH.1, ES.1, LS.1, PH.1, PS.1
Demonstrate professionalism.	English: 6.1, 7.1, 8.1, 9.1, 10.1, 11.1, 12.1 History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1

Task	SOL Correlations
Demonstrate reading and writing skills.	English: 6.1, 6.6, 6.7, 7.1, 7.6, 7.7, 8.1, 8.6, 8.7, 9.1, 9.5, 9.6, 9.7, 10.1, 10.5, 10.6, 10.7, 11.1, 11.5, 11.6, 11.7, 12.1, 12.5, 12.6, 12.7 History and Social Science: CE.1, CE.4, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Science: 6.1, PH.1, PS.1
Demonstrate workplace safety.	English: 6.4, 7.4, 8.4, 9.5, 10.5, 11.5, 12.5 History and Social Science: CE.1, CE.4, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Science: CH.1
Examining All Aspects of an Industry	
Examine aspects of planning within an industry/organization.	History and Social Science: GOVT.16
Examine aspects of management within an industry/organization.	
Examine aspects of financial responsibility within an industry/organization.	
Examine technical and production skills required of workers within an industry/organization.	
Examine principles of technology that underlie an industry/organization.	
Examine labor issues related to an industry/organization.	History and Social Science: GOVT.16
Examine community issues related to an industry/organization.	History and Social Science: GOVT.16
Examine health, safety, and environmental issues related to an industry/organization.	History and Social Science: GOVT.16
Addressing Elements of Student Life	

Task	SOL Correlations
Identify the purposes and goals of the student organization.	
Explain the benefits and responsibilities of membership in the student organization as a student and in professional/civic organizations as an adult.	
Demonstrate leadership skills through participation in student organization activities, such as meetings, programs, and projects.	
Identify Internet safety issues and procedures for complying with acceptable use standards.	
Exploring Work-Based Learning	
Identify the types of work-based learning (WBL) opportunities.	
Reflect on lessons learned during the WBL experience.	
Explore career opportunities related to the WBL experience.	
Participate in a WBL experience, when appropriate.	
Practicing Safety	
Identify common causes of death in the fire service.	English: 10.5, 11.5
Identify causes of back injuries and methods for preventing them.	English: 10.5, 11.5 History and Social Science: VUS.8, WHII.8
Identify slip, trip, and fall injuries and methods for preventing them.	English: 10.5, 11.5 History and Social Science: VUS.8, WHII.8

Task	SOL Correlations
Outline the physical fitness standards for firefighters.	English: 10.6, 10.7, 11.6, 11.7
Identify classroom safety rules and procedures.	English: 10.5, 11.5 History and Social Science: VUS.8, WHIL.8
Define <i>risk management</i> .	English: 10.3, 10.5, 11.3, 11.5
Identify the features of conducting an organized rapid escape.	English: 10.5, 11.5
Identify procedures to follow when an entrapment occurs.	English: 10.5, 11.5
Identify the importance of the NFPA standards to the fire service.	English: 10.5, 11.5
Practicing First Aid	
Identify first-aid terms and abbreviations.	English: 10.5, 11.5
Demonstrate techniques for controlling bleeding.	
Demonstrate methods for detecting and caring for those in shock.	
Care for those with the various classifications of burns.	
Demonstrate treatment for musculoskeletal injuries.	English: 10.5, 11.5
Demonstrate treatment for environmental emergencies.	English: 10.5, 11.5
Identify the types, symptoms, and treatments of poisoning.	English: 10.5, 11.5
Demonstrate care for conscious and unconscious patients until proper care arrives.	
Practicing Cardiopulmonary Resuscitation (CPR) [Note: Must be delivered by an approved provider.]	
Assess scene safety for the rescuer and the patient.	English: 10.5, 11.5
Demonstrate removal of a foreign body airway obstruction.	

Task	SOL Correlations
Demonstrate one- and two-rescuer CPR.	
Operate an automated external defibrillator (AED).	
Demonstrate rescue breathing.	
Introducing the Fire Service	
Define the firefighter's function and responsibilities.	English: 10.3, 10.5, 11.3, 11.5 History and Social Science: VUS.8, WHIL.8
Write a mission statement for the fire service.	English: 10.6, 10.7, 11.6, 11.7
Describe the history of the fire service.	English: 10.5, 11.5 History and Social Science: VUS.7, VUS.8, VUS.11, VUS.14, WG.17, WHI.5, WHI.6, WHI.10, WHI.14, WHIL.8, WHIL.11, WHIL.14
Outline the organizational structure of the fire service.	English: 10.5, 10.6, 10.7, 11.5, 11.6, 11.7
Describe the effects of the Civil Rights Act of 1991 and the Americans with Disabilities Act (ADA) on the employment and supervision of firefighters.	History and Social Science: VUS.13, VUS.14
List rules and laws that regulate the fire service.	English: 10.6, 10.7, 11.6, 11.7 History and Social Science: VUS.13, VUS.14
Identify standard operating procedures (SOPs) and standard operating guides (SOGs) in the fire service.	English: 10.5, 11.5
Develop an organizational chart for the National Incident Management System (NIMS).	English: 10.1, 11.1
List the allied agencies that assist with fire department operations.	English: 10.6, 10.7, 10.8, 11.6, 11.7, 11.8 History and Social Science: VUS.13, VUS.14
Describe employee assistance programs.	English: 10.5, 11.5
Compare engine, truck, and rescue/squad company operations and responsibilities.	English: 10.5, 11.5
Understanding Fire Behavior	

Task	SOL Correlations
Define <i>fire</i> and its characteristics.	English: 10.3, 11.3
Describe the fire tetrahedron and its importance in the suppression of fire.	English: 10.5, 11.5
Identify sources of heat energy.	English: 10.5, 11.5
Describe the burning process, the transmission of heat, and the products of combustion.	English: 10.5, 11.5 Science: ES.12
Explain key terms related to fire behavior.	English: 10.5, 11.5
Using Personal Protective Equipment (PPE) and Self-Contained Breathing Apparatus (SCBA)	
Identify the conditions that require the use of SCBA and full PPE.	English: 10.5, 11.5 History and Social Science: VUS.8, WHII.8
Identify the components of SCBA and PPE.	English: 10.5, 11.5 History and Social Science: VUS.8, WHII.8
Demonstrate proper use, inspection, and maintenance of SCBA and PPE.	History and Social Science: VUS.8, WHII.8
Demonstrate emergency procedures in the event of SCBA malfunction or failure.	History and Social Science: VUS.8, WHII.8
Define the relationship between PPE and national standards and regulations.	English: 10.3, 11.3 History and Social Science: VUS.8, WHII.8
Don and doff PPE within the recommended guidelines of the NFPA.	English: 10.8, 11.8 History and Social Science: VUS.8, WHII.8
Understanding Building Construction	
Describe building construction methods and materials.	English: 10.5, 11.5
Define the five types of building construction and their associated hazards.	English: 10.3, 11.3
Predict a fire's growth and development according to type of building construction.	English: 10.5, 11.5
Identify indications of potential building collapse and collapse-zone evacuation procedures.	English: 10.5, 11.5
Using Fire Detection, Protective, and Communications Systems	

Task	SOL Correlations
List procedures for citizens to report an emergency.	English: 10.6, 10.7, 11.6, 11.7
Describe the local fire department's emergency response procedures.	English: 10.5, 11.5
Identify methods of receiving reports.	English: 10.5, 11.5
Describe business and personal phone procedures.	English: 10.5, 11.5
Perform radio communications.	
Identify the value of and need for protective systems to help preserve life and property.	English: 10.5, 11.5
Identify types, components, and valve types of sprinkler systems.	English: 10.5, 11.5
Halt the flow of water from an automatic sprinkler head.	
Describe the methods used to return a sprinkler system to service.	English: 10.5, 11.5
Identify standpipe systems and connections.	English: 10.5, 11.5
Describe the value of sprinkler systems to on-the-scene firefighting.	English: 10.5, 11.5
Locate sprinkler connections.	
Using Water Supply, Hoses, and Nozzles	
Describe types and uses of fire streams and hoses.	English: 10.5, 11.5
Operate various fire streams.	
List the fundamental components of a modern water system.	English: 10.6, 10.7, 11.6, 11.7 History and Social Science: WHI.6
List causes of friction loss in water mains.	English: 10.6, 10.7, 11.6, 11.7
Compare wet-barrel and dry-barrel hydrants.	English: 10.5, 11.5
Operate a hydrant.	
Describe alternative static water sources.	English: 10.5, 11.5
Connect a fire department pump to a water supply.	English: 10.5, 11.5
Describe the procedures for loading and off-loading a mobile water supply apparatus.	English: 10.5, 11.5

Task	SOL Correlations
Identify techniques for rolling, repacking, and deploying hose lines.	English: 10.5, 11.5
Identify use and maintenance of a fire hose.	English: 10.5, 11.5
Practicing Fire-Suppression Techniques	
Describe fire-extinguishment theory.	English: 10.5, 11.5
Outline fire-suppression techniques and measures.	English: 10.6, 10.7, 11.6, 11.7
Describe utility control and rescue operations involving electrical hazards.	English: 10.5, 11.5
Describe the classifications of fire and their corresponding extinguishment methods.	English: 10.5, 11.5
Identify types of foam for fire suppression.	English: 10.5, 11.5
Demonstrate the suppression of Class A and Class B fires, using a hose line.	
Demonstrate the suppression of Class A, B, and C fires, using portable fire extinguishers.	
Identify the types and ratings of portable fire extinguishers.	English: 10.5, 11.5
Identify the extinguishment theory for fighting wildland fires.	English: 10.5, 11.5 Science: ES.7, ES.12
Using Ladders	
Identify ladder types, parts, and safety features.	English: 10.5, 11.5
Perform ladder carries.	
Perform ladder raises.	Mathematics: G.8
Describe maintenance, cleaning, and inspection procedures for ladders.	
Using Ropes	
Differentiate between types of ropes and knots.	English: 10.5, 11.5
Demonstrate the types of knots required for hoisting or securing.	

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Describe maintenance, cleaning, and inspection functions for life-safety and utility rope.	English: 10.5, 11.5
Following Forcible Entry Procedures	
Identify types of forcible entry tools.	English: 10.5, 11.5
Demonstrate methods for forcing windows and doors.	
Describe maintenance, cleaning, and inspection functions for forcible-entry tools.	English: 10.5, 11.5
Describe methods, components, and considerations of forcible entry.	English: 10.5, 11.5
Following Rescue Procedures	
Identify hazards associated with types of rescue situations.	English: 10.5, 11.5
Demonstrate victim-extrication, victim-lifting, and victim-movement processes.	
Conduct primary and secondary searches in a structure.	
Understanding Ventilation	
Describe the need for ventilation at a fire scene.	English: 10.5, 11.5
Identify the types of ventilation.	English: 10.5, 11.5
Demonstrate methods for creating horizontal, vertical, mechanical, and hydraulic ventilation.	
Set up portable power plants and lighting equipment.	
Determining Salvage, Overhaul, and Cause of Fire	
Describe salvage and overhaul needs and techniques.	English: 10.5, 11.5
Describe the need for evidence preservation.	English: 10.5, 11.5

Task	SOL Correlations
Identify methods for legally securing a building after emergency operations are complete.	English: 10.5, 11.5
Demonstrate use of salvage covers to protect property.	
Describe maintenance, cleaning, and inspection functions for salvage and overhaul.	English: 10.5, 11.5
Adhering to HAZMAT Standards	
Identify basic HAZMAT standards and resources for handling an incident.	English: 10.5, 11.5 History and Social Science: VUS.13, VUS.14 Science: CH.1
Identify hazardous materials that may be involved in terrorist attacks.	English: 10.5, 11.5 History and Social Science: VUS.14, WG.17, WHII.14
Describe procedures for responding to a terrorist attack.	English: 10.5, 11.5 History and Social Science: VUS.14, WG.17, WHII.14
Addressing Fire Prevention and Public Fire Education	
Explain the programs, actions, and services that prevent the loss of life and property associated with fire and other risks to the community.	English: 10.5, 11.5
Deliver a fire-safety education presentation.	English: 10.1, 11.1
Research NFPA certification options and regional education opportunities.	English: 10.8, 11.8