

**Curriculum Crosswalk Between NFPA 1001 (2013), SC DoE CTC Fire Service-Related Objectives, IFSTA Essentials (6e), and Action Training**

| NFPA 1001 (2013)                                                                                               | SC DoE Emergency and Fire Mgmt Svcs Objectives                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Location in the IFSTA Manual (*JB* Manual x Ref)                                                                                                                 | Location in the New SC Curriculum Outline                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Action Training Module                                                                                             |
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| <b>Chapter 4</b>                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                    |
| <b>4.1</b>                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                    |
| 1.                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                    |
| 2.                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                    |
| 3.                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                    |
| <b>4.2</b>                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                    |
| <b>4.3</b>                                                                                                     | <b>Unit A Objective 2:</b> Demonstrate knowledge and understanding of HIV.<br><b>Unit A Objective 3:</b> Demonstrate knowledge and understanding of HBV.<br><b>Unit A Objective 4:</b> Demonstrate knowledge and understanding of the decontamination procedures and the concept of universal precautions.                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                    |
| <b>Chapter 5</b>                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                    |
| <b>5.1</b>                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                    |
|                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Chapter 23:</b> Hazards, Behavior, and Identification of Hazardous Materials/WMD                                                                              | <b>Hazardous Materials Awareness</b> (8 hrs. total), <b>Hazardous Materials Operations</b> (32 hrs. total).<br>Worksheets 31, 32, 33                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                    |
| <b>5.1.1 Knowledge</b><br><br><b>NOTE:</b> Most Courage to Be Safe-related objectives appear in FFI Hours 4-6. | <b>Unit D Objective 1:</b> Identify various Occupational Safety and Health Administration (OSHA) regulations as they relate to fire and EMS.<br><b>Unit D Objective 2:</b> Identify various National Fire Protection Association (NFPA) standards as they relate to fire.<br><b>Unit D Objective 3:</b> Identify various Department of Health and Environmental Control (DHEC) regulations as they relate to fire and EMS.<br><b>Unit D Objective 4:</b> Demonstrate knowledge of local ordinances related to fire and EMS.<br><b>Unit J Objective 1:</b> Demonstrate knowledge of the history, the organization, and basic types of equipment used in the fire service. | <b>Chapter 1:</b> Orientation and Fire Service History<br><b>Chapter 2:</b> Firefighter Safety and Health<br><b>Chapter 21:</b> Fire and Life Safety Initiatives | <b>SCFA Chapter 1 Outline, Objectives 1-6</b><br><br><b>FFI Hour 1:</b> Fire service history, culture, mission, organization characteristics, fire department types, organizational principles.<br><b>FFI Hour 2:</b> Fire department regulations, SOPs, external organizations, South Carolina fire service-related organizations.<br><b>FFI Hour 4:</b> Job-related illnesses and injuries, impact of fatalities, NFPA and OSHA safety standards, risk management.<br><b>FFI Hour 5:</b> 16 Life Safety Initiatives, health and safety programs and issues, preventing accidents and injuries at fire stations.<br><b>FFI Hour 6:</b> Safety in training, scene safety, personnel accountability.<br><b>FFI Hour 11:</b> Purpose of PPE.<br><b>FFI Hour 15:</b> Care of protective clothing.<br><b>FFI Hours 109, 110:</b> Fire and life safety program development; components involved in fire and life safety program delivery; impact of hazards, messages, and target audiences on program development; preventing fire setters; role of FFI in enforcing fire and life safety codes.<br><br>Student Workbook Introduction, Information Sheets 1-5, Worksheets 1, 2, 3, 5, 7, 8, 16, 34 | 1, Vol. 101, Firefighter Safety: Part 1<br>2, Vol. 102, Firefighter Safety: Part 1<br>8, Vol. 108, Ropes and Knots |

| NFPA 1001 (2013)    | SC DoE Emergency and Fire Mgmt Svcs Objectives                               | Location in the IFSTA Manual (*JB* Manual x Ref)                                                                                                                              | Location in the New SC Curriculum Outline                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Action Training Module                                  |
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| <b>5.1.2 Skills</b> |                                                                              | <b>Chapter 6:</b> Firefighter Personal Protective Equipment<br><b>Chapter 8:</b> Ropes, Webbing, and Knots<br><br><b>Skill 6-I-1, Skill 6-I-5</b><br><br><i>*JB 1, 3, 10*</i> | <b>FFI Hours 3, 4, 5, 10, 11, 13, 14, 20:</b> Don structural protective clothing.<br><b>FFI Hours 3, 4, 5, 11, 12, 13, 14, 20:</b> Doff structural protective clothing.<br><b>FFI Hours 15, 17-18:</b> Care of PPE.<br><b>FFI Hours 20, 22, 23, 24, 26:</b> Don and doff PPE/SCBA.<br><b>FFI Hour 30:</b> Parts of a rope and tying considerations, knot characteristics and elements.<br><b>FFI Hours 31-32.</b> Tie knots.<br><b>FFI Hours 33-35.</b> Hoist tools and equipment, hoisting safety. | 8, Vol. 108, Ropes and Knots                            |
| <b>5.2</b>          |                                                                              |                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                         |
| <b>5.2.1</b>        |                                                                              |                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                         |
| A. Knowledge        |                                                                              | <b>Chapter 3:</b> Fire Department Communications<br><br><i>*JB 4*</i>                                                                                                         | <b>FFI Hour 8:</b> Information required for dispatchers.<br><b>FFI Hour 9:</b> Internal communications systems.                                                                                                                                                                                                                                                                                                                                                                                     | 19, Vol. 119, Fire Detection, Alarms and Communications |
| B. Skills           |                                                                              | <b>Skill 3-I-1</b><br><br><i>*JB 4*</i>                                                                                                                                       | <b>FFI Hour 8:</b> Handle emergency and non-emergency calls.<br><b>FFI Hour 9:</b> Use a portable radio for routine and emergency communications.<br>Activity 1                                                                                                                                                                                                                                                                                                                                     |                                                         |
| <b>5.2.2</b>        |                                                                              |                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                         |
| A. Knowledge        |                                                                              | <b>Chapter 3:</b> Fire Department Communications<br><br><i>*JB 4*</i>                                                                                                         | <b>FFI Hour 8:</b> Information required for dispatchers.<br><b>FFI Hour 9:</b> Internal communications systems.                                                                                                                                                                                                                                                                                                                                                                                     | 19, Vol. 119, Fire Detection, Alarms and Communications |
| B. Skills           |                                                                              | <b>Skill 3-I-1</b><br><br><i>*JB 4*</i>                                                                                                                                       | <b>FFI Hour 8:</b> Handle emergency and non-emergency calls, routine and emergency calls traffic.<br>Activity 1                                                                                                                                                                                                                                                                                                                                                                                     |                                                         |
| <b>5.2.3</b>        |                                                                              |                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                         |
| A. Knowledge        | <b>Unit B Objective 1:</b> Demonstrate knowledge of proper radio procedures. | <b>Chapter 3:</b> Fire Department Communications<br><br><i>*JB 4*</i>                                                                                                         | <b>FFI Hour 8:</b> Information required for dispatchers.<br><b>FFI Hour 9:</b> Internal communications systems, radio limitations.<br><br>Activity 2, Worksheet 6                                                                                                                                                                                                                                                                                                                                   | 19, Vol. 119, Fire Detection, Alarms and Communications |
| B. Skills           |                                                                              | <b>Skill 3-I-1, Skill 3-I-2</b><br><br><i>*JB 4*</i>                                                                                                                          | <b>FFI Hours 9, 10:</b> Use a radio for routine and emergency radio traffic.                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                         |
| <b>5.2.4</b>        |                                                                              |                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                         |
| A. Knowledge        |                                                                              | <b>Chapter 9:</b> Structural Search, Victim Removal, and Firefighter Survival<br><br><i>*JB 18*</i>                                                                           | Worksheet 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 19, Vol. 119, Fire Detection, Alarms and Communications |
| B. Skills           |                                                                              | <b>Skill 3-I-2, Skill 9-I-8</b><br><i>*JB 18*</i>                                                                                                                             | <b>FFI Hours 41, 42:</b> Transmit a MAYDAY.                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                         |

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| <b>5.3</b>       |                                                                                        |                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                 |
| <b>5.3.1</b>     |                                                                                        |                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                 |
| A. Knowledge     |                                                                                        | <b>Chapter 6:</b> Firefighter Personal Protective Equipment<br><b>Chapter 9:</b> Structural Search, Victim Removal, and Firefighter Survival<br><b>Skill 6-I-1, Skill 6-I-2, Skill 6-I-3, Skill 6-I-4</b><br><br><i>*JB 3, 22*</i> | <b>FFI Hour 11:</b> Purpose of PPE, characteristics of PPE.<br><b>FFI Hour 12:</b> Care of PPE, safety considerations of PPE.<br><b>FFI Hour 13:</b> Respiratory hazards and types of protective equipment, components of SCBA, limitations of respiratory equipment.<br><b>FFI Hour 14:</b> Precautions for refilling cylinders; safety precautions for SCBA use; non-emergency and emergency exit indicators and techniques.<br><b>FFI Hour 40:</b> FF survival methods.<br>Worksheets 14, 15 | 4, Vol. 104, SCBA: Introduction<br>5, Vol. 105, SCBA: Use and Maintenance                                                       |
| B. Skills        |                                                                                        | <b>Skill 6-I-7, Skill 6-I-8, Skill 6-I-9, Skill 6-I-10, Skill 6-I-11, Skill 9-I-9, Skill 9-I-10, Skill 9-I-11, Skill 9-I-12</b><br><br><i>*JB 3, 16, 18*</i>                                                                       | <b>FFI Hours 11, 12, 13, 22, 23, 24, 26:</b> Don and doff PPE for use at an emergency.<br><b>FFI Hours 12, 13, 14, 23, 24:</b> Change an SCBA cylinder<br><b>FFI Hours 17, 18:</b> Refill a cylinder using a cascade system and a compressor/purifier system.<br><b>FFI Hour 42:</b> Emergency breathing procedures; withdraw from a hostile environment.<br><b>FFI Hour 43:</b> Low-profile maneuvers with and without SCBA.                                                                   |                                                                                                                                 |
| <b>5.3.2</b>     |                                                                                        |                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                 |
| A. Knowledge     |                                                                                        | <b>Chapter 2:</b> Firefighter Safety and Health<br><b>Chapter 6:</b> Firefighter Personal Protective Equipment<br><b>Chapter 8:</b> Ropes, Webbing and Knots<br><br><i>*JB 11*</i>                                                 | Worksheet 4<br><b>FFI Hour 11:</b> Characteristics of PPE.                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2, Vol. 102, Firefighter Safety: Part 2<br>6, Vol. 106, Personal Protective Clothing                                            |
| B. Skills        |                                                                                        | <b>Skill 2-I-1, Skill 6-I-1, Skill 6-I-2, Skill 6-I-3, Skill 6-I-4, Skill 6-I-5, Skill 6-I-8, Skill 6-I-8, Skill 6-I-10, Skill 6-I-11</b><br><i>*JB 11*</i>                                                                        | <b>FFI Hour 4, 5:</b> Mount and dismount an apparatus.<br><b>FFI Hours 11, 12, 13, 14, 20, 22, 23, 24, 26:</b> Don and doff PPE/SCBA.<br><b>FFI Hours 11, 22:</b> Don an SCBA while seated.<br><b>FFI Hours 15, 19:</b> Inspect an SCBA.<br><b>FFI Hours 17-18:</b> Clean an SCBA.                                                                                                                                                                                                              |                                                                                                                                 |
| <b>5.3.3</b>     |                                                                                        |                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                 |
| A. Knowledge     | <b>Unit J Objective 8:</b> Demonstrate knowledge of protective clothing and equipment. | <b>Chapter 2:</b> Firefighter Safety and Health<br><b>Chapter 6:</b> Firefighter Personal Protective Equipment<br><br><i>*JB 11*</i>                                                                                               | <b>FFI Hour 6:</b> Scene preparedness and safety.<br><b>FFI Hour 7:</b> Scene management and roadway safety.<br><b>FFI Hour 11:</b> Purpose and characteristics of PPE.<br><b>FFI Hour 12:</b> Care of PPE and clothing, safety considerations of PPE.                                                                                                                                                                                                                                          | 1, Vol. 101, Firefighter Safety: Part 1<br>2, Vol. 102, Firefighter Safety: Part 2<br>6, Vol. 106, Personal Protective Clothing |
| B. Skills        |                                                                                        | <b>Skill 2-I-2, Skill 6-I-1, Skill 6-I-2, Skill 6-I-</b>                                                                                                                                                                           | <b>FFI Hour 6, 7:</b> Perform scene management at a roadway incident.                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                 |

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|                  |                                                                         | 3, Skill 6-I-4, Skill 6-I-5<br><br>*JB 11*                                                                                                                                                                                                                                                                     | FFI Hours 2, 3, 4, 11, 12, 13, 14, 20, 22, 23, 24, 26: Don and doff PPE for use at an emergency. Activity 4                                                                                                                                                                                                                                                                                                                                                                                 |                                                    |
| <b>5.3.4</b>     |                                                                         |                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                    |
| A. Knowledge     |                                                                         | Chapter 4: Building Construction<br>Chapter 11: Forcible Entry<br><br>*JB 12*                                                                                                                                                                                                                                  | FFI Hour 6: Tool and equipment safety.<br>FFI Hour 19: Impact of building materials on safety.<br>FFI Hour 20: Construction of building components.<br>FFI Hour 48: Basic principles of forcible entry; construction of locksets; considerations when using forcible entry tools.<br>FFI Hour 49: Considerations when forcing doors and locks.<br>FFI Hour 53: Considerations when forcing windows and covers.<br>FFI Hour 54: Methods for breaching walls and floors. Worksheets 9, 17, 18 | 18, Vol. 118, Forcible Entry                       |
| B. Skills        |                                                                         | Skill 11-I-3, Skill 11-I-4, Skill 11-I-5, Skill 11-I-6, Skill 11-I-7, Skill 11-I-8, Skill 11-I-9, Skill 11-I-10, Skill 11-I-11, Skill 11-I-12, Skill 11-I-13, Skill 11-I-14, Skill 11-I-15, Skill 11-I-16, Skill 11-I-17, Skill 11-I-18, Skill 11-I-19, Skill 11-I-20, Skill 11-I-21, Skill 11-I-22<br>*JB 12* | FFI Hours 49, 50: Force an inward-swinging door, force an outward-swinging door.<br>FFI Hour 51: Force through the lock.<br>FFI Hour 52: Force a padlock.<br>FFI Hour 53: Force entry through a window.                                                                                                                                                                                                                                                                                     |                                                    |
| <b>5.3.5</b>     |                                                                         |                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                    |
| A. Knowledge     |                                                                         | Chapter 3: Fire Department Communications<br>Chapter 9: Structural Search, Victim Removal, and Firefighter Safety<br><br>*JB 18*                                                                                                                                                                               | FFI Hour 6: Personnel accountability.<br>FFI Hour 39: Describe victim removal methods.                                                                                                                                                                                                                                                                                                                                                                                                      | 2, Vol. 102, Firefighter Safety: Part 2            |
| B. Skills        |                                                                         | Skill 9-I-8, Skill 9-I-9, Skill 9-I-10, Skill 9-I-11, Skill 9-I-12, Skill 9-I-13, Skill 9-I-14<br><br>*JB 18*                                                                                                                                                                                                  | FFI Hours 41, 42: Transmit a MAYDAY.<br>FFI Hour 42: Emergency breathing procedures; withdraw from a hostile environment.<br>FFI Hour 43: Low-profile maneuvers with and without SCBA.<br>FFI Hour 44: Disentangle from debris.                                                                                                                                                                                                                                                             |                                                    |
| <b>5.3.6</b>     |                                                                         |                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                    |
| A. Knowledge     | Unit J Objective 5: Demonstrate knowledge of the use of ground ladders. | Chapter 12: Ground Ladders<br><br>*JB 13*                                                                                                                                                                                                                                                                      | FFI Hour 56: Construction and parts of a ladder, types of ladders, considerations when using a ladder.<br>FFI Hour 57: Methods to secure ladders.                                                                                                                                                                                                                                                                                                                                           | 10, Vol. 110, Ladders 1<br>11, Vol. 111, Ladders 2 |

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|                         |                                                                   |                                                                                                                                                                                                   | <b>FFI Hour 61:</b> Ladder climbing considerations.<br><br>Worksheets 19, 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                        |
| B. Skills               |                                                                   | <b>Skill 11-I-22</b><br><b>Skill 12-I-2, Skill 12-I-3, Skill 12-I-4, Skill 12-I-5, Skill 12-I-6, Skill 12-I-7, Skill 12-I-8, Skill 12-I-9, Skill 12-I-10, Skill 12-I-11</b><br><br><i>*JB 13*</i> | <b>FFI Hour 57:</b> One-firefighter ladder raise.<br><b>FFI Hour 58:</b> Two-firefighter carry and flat raise, two-firefighter carry and beam raise.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                        |
| <b>5.3.7</b>            |                                                                   |                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                        |
| A. Knowledge            | <b>Unit J Objective 7:</b> Demonstrate knowledge of fire streams. | <b>Chapter 17:</b> Fire Control<br><br><i>*JB 22, 26*</i>                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 9, Vol. 109, Fire Control 1                            |
| B. Skills               |                                                                   | <b>Skill 16-I-1, Skill 16-I-2, Skill 16-I-3, Skill 17-I-8</b><br><br><i>*JB 22*</i>                                                                                                               | <b>FFI Hour 98:</b> Suppress a vehicle fire.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                        |
| <b>5.3.8</b>            |                                                                   |                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                        |
| A. Knowledge            |                                                                   | <b>Chapter 15:</b> Fire Hose<br><b>Chapter 17:</b> Fire Control<br><b>Chapter 18:</b> Loss Control<br><b>Chapter 19:</b> Fire Origin and Cause Determination<br><br><i>*JB 22, 38*</i>            | <b>FFI Hour 75:</b> Hose characteristics.<br><b>FFI Hour 76:</b> Various uses for hose appliances and tools.<br><b>FFI Hour 77:</b> Explain the methods used for supply hose lays, different methods for handling hoselines, methods for advancing hoselines in various ways.<br><b>FFI Hour 92:</b> Factors and considerations when suppressing structure fires.<br><b>FFI Hour 95:</b> Situations and hazards with suppressing Class C fires; actions associated with suppressing Class D fires.<br><b>FFI Hour 97:</b> Methods for suppressing fires in piled materials, unattached structures, and trash containers.<br><b>FFI Hour 107:</b> Signs of the area of origin; relationship between fire cause classifications and cause determination; preserving evidence.<br><br>Worksheet 27 | 9, Vol. 109, Fire Control 1<br>10, Vol. 110, Ladders 1 |
| B. Skills               |                                                                   | <b>Skill 17-I-1, Skill 17-I-2, Skill 17-I-5, Skill 17-I-7, Skill 17-I-9, Skill 17-I-10, Skill 17-I-11 Skill 18-I-12</b><br><br><i>*JB 22, 38*</i>                                                 | <b>FFI Hour 93:</b> Perform direct, indirect, and combination attacks and gas cooling techniques.<br><b>FFI Hour 94:</b> Perform safety procedures for upper level and below ground structure fires.<br><b>FFI Hour 96:</b> Connect hoseline to a FDC; operate a sprinkler system control valve; stop the flow from a sprinkler head.<br><b>FFI Hour 97:</b> Deploy and operate master stream devices.                                                                                                                                                                                                                                                                                                                                                                                          |                                                        |
| <b>5.3.9</b>            |                                                                   |                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                        |
| A. Knowledge            |                                                                   | <b>Chapter 9:</b> Structural Search,                                                                                                                                                              | <b>FFI Hour 37:</b> Impact of building construction and floor plans                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                        |

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|                  |                                                | Victim Removal and Firefighter Survival<br><b>Chapter 11:</b> Forcible Entry<br><b>Chapter 12:</b> Ground Ladders<br><br><i>*JB 14*</i>                                                                                                                 | on search techniques; size up during searches; safety guidelines for searches; primary and secondary search techniques.<br><b>FFI Hour 39:</b> Describe victim removal methods.<br><b>FFI Hour 40:</b> FF survival methods, actions of RIC/RIT.<br><b>FFI Hour 43:</b> Low-profile maneuvers with and without SCBA.<br><b>FFI Hour 44:</b> Disentangle from debris.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                   |
| B. Skills        |                                                | <b>Skill 9-I-1, Skill 9-I-2, Skill 9-I-3, Skill 9-I-4, Skill 9-I-5, Skill 9-I-6, Skill 9-I-7, Skill 9-I-8, Skill 9-I-9, Skill 9-I-10, Skill 9-I-11, Skill 9-I-12, Skill 9-I-13, Skill 9-I-14 Skill 12-I-18, Skill 12-I-19</b><br><br><i>*JB 14, 18*</i> | <b>FFI Hours 37, 38:</b> Perform primary and secondary search.<br><b>FFI Hour 39:</b> Perform a webbing drag.<br><b>FFI Hour 40:</b> Lifts/carries.<br><b>FFI Hours 41, 42:</b> Transmit a MAYDAY.<br><b>FFI Hour 42:</b> Emergency breathing procedures; withdraw from a hostile environment.<br><b>FFI Hour 62:</b> Assist a conscious victim down a ladder; assist an unconscious victim down a ladder.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                   |
| <b>5.3.10</b>    |                                                |                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                   |
| A. Knowledge     |                                                | <b>Chapter 4:</b> Building Construction<br><b>Chapter 5:</b> Fire Behavior<br><b>Chapter 15:</b> Fire Hose<br><b>Chapter 16:</b> Fire Streams<br><b>Chapter 17:</b> Fire Control<br><b>Chapter 18:</b> Loss Control<br><br><i>*JB 6, 17, 22*</i>        | <b>FFI Hour 19:</b> Impact of building materials on safety.<br><b>FFI Hour 20:</b> Construction of building components.<br><b>FFI Hour 22:</b> Physical states of fuel.<br><b>FFI Hour 75:</b> Hose characteristics.<br><b>FFI Hour 76:</b> Various uses for hose appliances and tools.<br><b>FFI Hour 77:</b> Explain the methods used for supply hose lays, different methods for handling hoselines, methods for advancing hoselines in various ways, considerations that can impact operating attack hoselines.<br><b>FFI Hour 87:</b> Vaporization and steam; factors that create pressure loss or gain; impact of water hammer on fire streams.<br><b>FFI Hour 88:</b> Fire stream patterns and their possible limiting factors; types of fire stream nozzles; nozzle control valves; operating and maintaining handline nozzles.<br><b>FFI Hour 92:</b> Factors and considerations when suppressing structure fires.<br><b>FFI Hour 95:</b> Situations and hazards with suppressing Class C fires; actions associated with suppressing Class D fires.<br><br>Worksheet 28 | 3, Vol. 103, Fire Behavior<br>9, Vol. 109, Fire Control 1<br>10, Vol. 110, Ladders 1<br>11, Vol. 111, Ladders 2<br>15, Vol. 115, Handling Hose<br>16, Vol. 116, Advancing Hoselines<br>17, Vol. 117, Fire Streams |
| B. Skills        |                                                | <b>Skill 15-I-1, Skill 15-I-14, Skill 15-I-15, Skill 15-I-16, Skill 15-I-17, Skill 15-I-18, Skill 15-I-19, Skill 15-I-20, Skill 15-I-21, Skill 15-I-22, Skill 15-I-23, Skill 15-I-24,</b>                                                               | <b>FFI Hour 79:</b> Advance a hose load; advance an uncharged hoseline using the working lone drag method.<br><b>FFI Hour 80:</b> Advance a line into a structure; advance a line up and down an interior stairway.<br><b>FFI Hour 82:</b> Connect a stairway standpipe connection and advance an attack hoseline onto a floor; advance an uncharged line up a ladder and into a window.<br><b>FFI Hour 83:</b> Advance a charged line up a ladder into a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                   |

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|                  |                                                                     | <b>Skill 15-I-26, Skill 15-I-27</b><br><b>Skill 16-I-1, Skill 16-I-2, Skill 16-I-3</b><br><b>Skill 17-I-1, Skill 17-I-2, Skill 17-I-3, Skill 17-I-4, Skill 17-I-5</b><br><br><i>*JB 6, 17, 22*</i> | window; operate a charged attack line from a ladder.<br><b>FFI Hour 84:</b> Operate a large hoseline for exposure protection (one-firefighter method).<br><b>FFI Hour 85:</b> Extend a hoseline; replace a burst hoseline.<br><b>FFI Hour 87:</b> Operate and maintain a flat hose load.<br><b>FFI Hour 88:</b> Operate and maintain an accordion hose load.<br><b>FFI Hour 89:</b> Operate and maintain a pre-connected flat hose load; triple-layer hose load.<br><b>FFI Hour 93:</b> Direct, indirect, and combination attacks and gas cooling techniques.<br><b>FFI Hour 94:</b> Safety procedures for upper level and below ground structure fires.<br><b>FFI Hour 96:</b> Connect hoseline to a FDC; operate a sprinkler system control valve; stop the flow from a sprinkler head.<br><b>FFI Hour 106:</b> Locate and extinguish hidden fires.<br>Worksheets 25, 26 |                                                                                                  |
| <b>5.3.11</b>    |                                                                     |                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                  |
| A. Knowledge     | <b>Unit J Objective 10:</b> Demonstrate knowledge of fire behavior. | <b>Chapter 12:</b> Ground Ladders<br><b>Chapter 13:</b> Tactical Ventilation<br><b>Chapter 5:</b> Fire Behavior<br><br><i>*JB 6, 15*</i>                                                           | <b>FFI Hour 22:</b> Fire science.<br><b>FFI Hour 23:</b> Relationship between oxygen and life safety; self-sustained chemical reactions; factors that affect fire behavior; stages of fire development.<br><b>FFI Hour 24:</b> Rapid fire development; effects of fire fighting operations on fire behavior.<br><b>FFI Hour 65:</b> Reasons for tactical ventilation; considerations when performing ventilation; fire behavior indicators during ventilation.<br><b>FFI Hour 66:</b> Define horizontal and vertical ventilation; means for achieving horizontal and vertical ventilation; types of horizontal and vertical ventilation; other types of ventilation.                                                                                                                                                                                                       | 3, Vol. 103, Fire Behavior<br>12, Vol. 112, Ventilation Basics and Horizontal Procedures         |
| B. Skills        |                                                                     | <b>Skill 11-I-13, Skill 11-I-14, Skill 11-I-15,</b><br><b>Skill 12-I-2, Skill 12-I-3, Skill 12-I-4,</b><br><b>Skill 12-I-5, Skill 12-I-6</b><br><br><i>*JB 15*</i>                                 | <b>FFI Hour 57:</b> One-firefighter ladder raise.<br><b>FFI Hour 58:</b> Two-firefighter carry and flat raise, two-firefighter carry and beam raise.<br><b>FFI Hour 59, 60:</b> Deploy a roof ladder, move and place a ground ladder, pivot a ladder, ladder shift.<br><b>FFI Hour 61:</b> Leg lock on a ladder.<br><b>FFI Hour 65:</b> Perform positive pressure ventilation.<br><b>FFI Hour 66:</b> Ventilate using a power saw.                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                  |
| <b>5.3.12</b>    |                                                                     |                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                  |
| A. Knowledge     |                                                                     | <b>Chapter 4:</b> Building Construction<br><b>Chapter 5:</b> Fire Behavior<br><b>Chapter 12:</b> Ground Ladders<br><b>Chapter 13:</b> Tactical Ventilation                                         | <b>FFI Hour 19:</b> Impact of building materials on safety.<br><b>FFI Hour 20:</b> Construction of building components.<br><b>FFI Hour 22:</b> Impact of thermal energy.<br><b>FFI Hour 24:</b> Effects of fire fighting operations on fire behavior.<br><b>FFI Hour 65:</b> Considerations when performing ventilation.<br><b>FFI Hour 66:</b> Means for achieving horizontal and vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 12, Vol. 112, Ventilation Basics and Horizontal Procedures<br>13, Vol. 113, Vertical Ventilation |

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|------------------|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
|                  |                                                | *JB 6, 7, 15*                                                                                                                                                                                                                                                        | ventilation; types of horizontal and vertical ventilation; other types of ventilation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                 |
| B. Skills        |                                                | <b>Skill 12-I-12, Skill 12-I-13, Skill 12-I-14, Skill 12-I-15, Skill 12-I-16, Skill 12-I-17</b><br><b>Skill 13-I-1, Skill 13-I-2, Skill 13-I-3, Skill 13-I-4, Skill 13-I-5, Skill 13-I-6, Skill 13-I-7, Skill 13-I-8, Skill 13-I-9, Skill 13-I-10</b><br><br>*JB 15* | <b>FFI Hour 57:</b> One-firefighter ladder raise.<br><b>FFI Hour 58:</b> Two-firefighter carry and flat raise, two-firefighter carry and beam raise.<br><b>FFI Hour 59, 60:</b> Deploy a roof ladder, move and place a ground ladder, pivot a ladder, ladder shift.<br><b>FFI Hour 61:</b> Leg lock on a ladder.<br><b>FFI Hour 65:</b> Perform positive pressure ventilation.<br><b>FFI Hour 66:</b> Ventilate using a power saw.<br><b>FFI Hours 68, 69:</b> Ventilation skills.                                                                                                                                                                                            |                                                                                 |
| <b>5.3.13</b>    |                                                |                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                 |
| A. Knowledge     |                                                | <b>Chapter 17:</b> Fire Control<br><b>Chapter 18:</b> Loss Control<br><b>Chapter 19:</b> Fire Origin and Cause Determination<br><br>*JB 17, 19, 38*                                                                                                                  | <b>FFI Hour 103:</b> Methods used to maintain safety during overhaul; factors that influence locating hidden fires; ways a thermal imager can be used during overhaul.<br><b>FFI Hour 107:</b> Relationship between fire cause classifications and cause determination; signs of arson.                                                                                                                                                                                                                                                                                                                                                                                       | 22, Vol. 122, Property Conservation: Overhaul                                   |
| B. Skills        |                                                | <b>Skill 17-I-1, Skill 17-I-2</b><br><br>*JB 38*                                                                                                                                                                                                                     | <b>FFI Hour 93:</b> Direct, indirect, and combination attacks and gas cooling techniques.<br><b>FFI Hour 94:</b> Safety procedures for upper level and below ground structure fires.<br><b>FFI Hour 106:</b> Locate and extinguish hidden fires.                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                 |
| <b>5.3.14</b>    |                                                |                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                 |
| A. Knowledge     |                                                | <b>Chapter 11:</b> Forcible Entry<br><b>Chapter 17:</b> Fire Control<br><b>Chapter 18:</b> Loss Control<br><b>Chapter 19:</b> Fire Origin and Cause Determination<br><br>*JB 12, 19, 37*                                                                             | <b>FFI Hour 48:</b> Basic principles of forcible entry; construction of locksets; considerations when using forcible entry tools.<br><b>FFI Hour 49:</b> Considerations when forcing doors and locks.<br><b>FFI Hour 53:</b> Considerations when forcing windows and covers.<br><b>FFI Hour 54:</b> Methods for breaching walls and floors.<br><b>FFI Hour 101:</b> Philosophy of loss control; ways pre-incident planning impacts loss control; appropriate salvage procedures; types of salvage covers.<br><b>FFI Hour 103:</b> Ways to cover openings during salvage operations.<br><b>FFI Hour 107:</b> Signs of the area of origin; preserving evidence.<br>Worksheet 29 | 21, Vol. 121, Property Conservation: Salvage<br>23, Vol. 123, Sprinkler Systems |
| B. Skills        |                                                | <b>Skill 17-I-5, 17-I-6</b><br><b>Skill 18-I-1, Skill 18-I-2, Skill 18-I-3, Skill 18-I-4, Skill 18-I-5, Skill 18-I-6, Skill 18-I-7, Skill 18-I-8, Skill 18-I-9, Skill 18-I-10, Skill</b>                                                                             | <b>FFI Hours 49, 50:</b> Force an inward-swinging door, force outward-swinging door.<br><b>FFI Hour 51:</b> Force through the lock.<br><b>FFI Hour 52:</b> Force a padlock.<br><b>FFI Hour 53:</b> Force entry through a window.<br><b>FFI Hour 96:</b> Connect hoseline to a FDC; operate a sprinkler                                                                                                                                                                                                                                                                                                                                                                        |                                                                                 |

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|                  |                                                                                  | <b>18-I-11</b><br><br><i>*JB 19*</i>                                                                                                | system control valve; stop the flow from a sprinkler head.<br><b>FFI Hour 101:</b> Clean, inspect, and repair a salvage cover; roll a salvage cover.<br><b>FFI Hour 102:</b> Spread a rolled salvage cover; fold a salvage cover for a one-firefighter spread.<br><b>FFI Hour 103:</b> Spread a folded salvage cover—one-firefighter method; fold a salvage cover for a two-firefighter spread; spread a folded salvage cover—two-firefighter balloon throw.<br><b>FFI Hour 104:</b> Construct a water chute without pike poles; construct a water chute with pike poles.<br><b>FFI Hour 105:</b> Construct a catchall; make a chute and attach it to a catchall. |                                          |
| <b>5.3.15</b>    |                                                                                  |                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                          |
| A. Knowledge     | <b>Unit J Objective 9:</b> Demonstrate knowledge of pump operations.             | <b>Chapter 14:</b> Water Supply<br><b>Chapter 15:</b> Fire Hose<br><b>Chapter 17:</b> Fire Control<br><br><i>*JB 16*</i>            | <b>FFI Hour 71:</b> Ways water supply systems are used; types of hydrants; hydrant operation and inspection considerations.<br><b>FFI Hour 72:</b> Water supply sources and methods of access.                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 15, Vol. 115, Handling Hose              |
| B. Skills        |                                                                                  | <b>Skill 14-I-1, Skill 14-I-2, Skill 14-I-3, Skill 14-I-4, Skill 15-I-15, Skill 15-I-25, Skill 17-I-3</b><br><br><i>*JB 16, 17*</i> | <b>FFI Hour 71:</b> Operate a hydrant; make a soft-sleeve hydrant connection.<br><b>FFI Hour 72:</b> Perform a hard-suction hose connection for drafting.<br><b>FFI Hour 73:</b> Deploy a portable water tank.<br><b>FFI Hour 84:</b> Operate a large hoseline (two-firefighter method).<br><b>FFI Hour 96:</b> Connect hoseline to a FDC.                                                                                                                                                                                                                                                                                                                        |                                          |
| <b>5.3.16</b>    |                                                                                  |                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                          |
| A. Knowledge     | <b>Unit J Objective 2:</b> Demonstrate knowledge of portable fire extinguishers. | <b>Chapter 7:</b> Portable Fire Extinguishers<br><br><i>*JB 8*</i>                                                                  | <b>FFI Hour 26:</b> Extinguisher classifications, types of extinguishers.<br><b>FFI Hour 27:</b> Extinguisher rating system, extinguisher selection criteria, extinguisher care and maintenance.                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 7, Vol. 107, Portable Extinguishers      |
| B. Skills        |                                                                                  | <b>Skill 7-I-1, Skill 7-I-2, Skill 7-I-3</b><br><br><i>*JB 8*</i>                                                                   | <b>FFI Hour 26, 27:</b> Operate a pressured-water extinguisher.<br><b>FFI Hour 27:</b> Operate dry chemical and carbon dioxide extinguishers.<br><br>Worksheet 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                          |
| <b>5.3.17</b>    |                                                                                  |                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                          |
| A. Knowledge     |                                                                                  | <b>Chapter 10:</b> Scene Lighting, Rescue Tools, Vehicle Extrication, and Technical Rescue<br><br><i>*JB 19*</i>                    | <b>FFI Hour 46:</b> Identify lighting equipment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 20, Vol. 120, Lighting and Power Sources |
| B. Skills        |                                                                                  | <b>Chapter 10:</b> Scene Lighting, Rescue Tools, Vehicle                                                                            | <b>FFI Hours 47, 48:</b> Inspect and maintain power tools and equipment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                          |

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|                  |                                                | Extrication, and Technical Rescue<br><br>*JB 19*                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                |                                                                                                  |
| <b>5.3.18</b>    |                                                |                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                |                                                                                                  |
| A. Knowledge     |                                                | <b>Chapter 17:</b> Fire Control<br><br>*JB 11, 22*                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                | 2, Vol. 102, Firefighter Safety: Part 2                                                          |
| B. Skills        |                                                | <b>Skill 17-I-3</b><br><br>*JB 11, 22*                                                                                                                                                                                                                 | <b>FFI Hour 95:</b> Turn off and/or control building utilities.                                                                                                                                                                                                                                                                                                |                                                                                                  |
| <b>5.3.19</b>    |                                                |                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                |                                                                                                  |
| A. Knowledge     |                                                | <b>Chapter 17:</b> Fire Control<br><br>*JB 21*                                                                                                                                                                                                         | <b>FFI Hour 99:</b> Types and influences on ground cover fires; safety principles and practices when fighting ground cover fires.                                                                                                                                                                                                                              | 9, Vol. 109, Fire Control 1                                                                      |
| B. Skills        |                                                | <b>Skill 17-I-12</b><br><br>*JB 21*                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                |                                                                                                  |
| <b>5.3.20</b>    |                                                |                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                |                                                                                                  |
| A. Knowledge     |                                                | <b>Chapter 8:</b> Ropes, Webbing and Knots<br><br>*JB 10*                                                                                                                                                                                              | <b>FFI Hour 30:</b> Describe webbing construction, parts of a rope and tying considerations, knot characteristics and elements.<br><b>FFI Hour 33:</b> Select rope hardware, summarize hoisting safety considerations.<br><br>Worksheets 11, 12                                                                                                                |                                                                                                  |
| B. Skills        |                                                | <b>Skill 8-I-2, Skill 8-I-3, Skill 8-I-4, Skill 8-I-5, Skill 8-I-6, Skill 8-I-7, Skill 8-I-8, Skill 8-I-9, Skill 8-I-10, Skill 8-I-11, Skill 8-I-12, Skill 8-I-13, Skill 8-I-14, Skill 8-I-15, Skill 8-I-16, Skill 8-I-17, Skill 8-I-18</b><br>*JB 10* | <b>FFI Hours 31, 32:</b> Tie knots.<br><b>FFI Hours 33-35:</b> Hoist tools and equipment.                                                                                                                                                                                                                                                                      |                                                                                                  |
| <b>5.4</b>       |                                                |                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                |                                                                                                  |
| <b>5.5</b>       |                                                |                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                |                                                                                                  |
| <b>5.5.1</b>     |                                                |                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                |                                                                                                  |
| A. Knowledge     |                                                | <b>Chapter 6:</b> Firefighter Personal Protective Equipment<br><b>Chapter 7:</b> Portable Fire Extinguishers<br><b>Chapter 8:</b> Ropes, Webbing and Knots<br><b>Chapter 11:</b> Forcible Entry<br><b>Chapter 18:</b> Loss Control                     | <b>FFI Hour 12:</b> Care of protective clothing and PPE.<br><b>FFI Hours 15, 17-18:</b> Inspect an SCBA, clean an SCBA.<br><b>FFI Hour 14:</b> Safety precautions for refilling SCBA cylinders.<br><b>FFI Hour 27:</b> Extinguisher care and maintenance.<br><b>FFI Hour 30:</b> Rope maintenance; rope inspections.<br><b>FFI Hour 56:</b> Maintain a ladder. | 5, Vol. 105, SCBA Use and Maintenance<br>8, Vol. 108, Ropes and Knots<br>10, Vol. 110, Ladders 1 |

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| B. Skills                         |                                                                                                                                                                                                   | Skill 6-I-5, Skill 6-I-6, Skill 6-I-7,<br>Skill 8-I-1,<br>Skill 11-I-1, Skill 11-I-2,<br>Skill 12-I-1<br>Skill 18-I-1<br>*JB 9, 10*                                                                    | FFI Hour 12: Care for protective clothing.<br>FFI Hour 14, 15, 17-18, 19: Clean and inspect SCBA.<br>FFI Hour 30: Inspect and clean rope.<br>FFI Hour 48: Inspect hand tools and equipment.                                                                                                                          |                             |
| 5.5.2                             |                                                                                                                                                                                                   |                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                      |                             |
| A. Knowledge                      | Unit J Objective 6: Demonstrate knowledge of fire hose.                                                                                                                                           | Chapter 15: Fire Hose<br><br>*JB 16, 17*                                                                                                                                                               | FFI Hour 75: Causes and prevention of hose damage; inspection and care of fire hose.<br>FFI Hour 76: Basic hose rolls; basic hose loads and finishes.<br>FFI Hour 77: Pre-connected hose loads for attack lines.<br>Worksheets 21, 22, 23, 24                                                                        | 15, Vol. 115, Handling Hose |
| B. Skills                         |                                                                                                                                                                                                   | Skill 15-I-2, Skill 15-I-3, Skill 15-I-4, Skill 15-I-5,<br>Skill 15-I-6, Skill 15-I-7, Skill 15-I-8, Skill 15-I-9,<br>Skill 15-I-10, Skill 15-I-11, Skill 15-I-12,<br>Skill 15-I-13<br><br>*JB 16, 17* | FFI Hour 75: Inspect and maintain a fire hose; straight hose roll; donut hose roll.<br>FFI Hours 76, 78: Flat hose load; accordion hose load.<br>FFI Hours 77, 78: Pre-connected flat hose load; triple-layer hose load.<br>FFI Hour 81: Hydrant connection from a forward hose lay; reverse hose lay from a pumper. |                             |
| <b>Chapter 6: Fire Fighter II</b> |                                                                                                                                                                                                   |                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                      |                             |
| 6.1                               |                                                                                                                                                                                                   |                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                      |                             |
| 6.1.1 Knowledge                   | Unit F Objective 1: Identify five major components of the ICs.<br>Unit F Objective 2: Identify the responsibilities of each division commander.<br>Unit F Objective 3: State the span of control. | Chapter 1: Orientation and Fire Service History<br>Chapter 17: Fire Control<br><br>*JB 1, 5*                                                                                                           | FFI Hour 1: Fire service organizational principles.<br>FFII Hour 33: Considerations taken when coordinating fireground operations; process of establishing and transferring command.                                                                                                                                 |                             |
| 6.1.2 Skills                      |                                                                                                                                                                                                   | Skill 17-11-1<br>*JB 5*                                                                                                                                                                                | FFII Hour 33: Considerations taken when coordinating fireground operations; process of establishing and transferring command.<br>FFII Hours 38-43: Command, control, and coordinate a structure fire.                                                                                                                |                             |
| 6.2                               |                                                                                                                                                                                                   |                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                      |                             |
| 6.2.1                             |                                                                                                                                                                                                   |                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                      |                             |
| A. Knowledge                      |                                                                                                                                                                                                   | Chapter 3: Fire Department Communications<br><br>*JB 4*                                                                                                                                                | FFII Hour 1: Types of information gathered by post-incident reports.                                                                                                                                                                                                                                                 |                             |
| B. Skills                         | Unit B Objective 2: Demonstrate ability to write an incident report.<br>Unit E Objective 1: Demonstrate                                                                                           | Skill 3-II-1<br><br>*JB 4*                                                                                                                                                                             | FFII Hour 1: Create an incident report.                                                                                                                                                                                                                                                                              |                             |

| <b>NFPA 1001 (2013)</b> | <b>SC DoE Emergency and Fire Mgmt Svcs Objectives</b> | <b>Location in the IFSTA Manual (*JB* Manual x Ref)</b>                                                                                                                                                                  | <b>Location in the New SC Curriculum Outline</b>                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Action Training Module</b>                                                                                                                                     |
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|                         | fundamental computer skills.                          |                                                                                                                                                                                                                          | Information Sheet 5, Activity 3                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                   |
| <b>6.2.2</b>            |                                                       |                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                   |
| A. Knowledge            |                                                       | <b>Chapter 3:</b> Fire Department Communications<br><br><i>*JB 4*</i>                                                                                                                                                    | <b>FFII Hour 1:</b> Components of on-scene communications.                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                   |
| B. Skills               |                                                       | <b>Chapter 3:</b> Fire Department Communications<br><i>*JB 4*</i>                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                   |
| <b>6.3</b>              |                                                       |                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                   |
| <b>6.3.1</b>            |                                                       |                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                   |
| A. Knowledge            |                                                       | <b>Chapter 16:</b> Fire Streams<br><b>Chapter 17:</b> Fire Control<br><br><i>*JB 17*</i>                                                                                                                                 | <b>FFII Hour 23:</b> Methods by which foam prevents or controls a hazard; foam concentrates and factors that impact selection; foam proportioning methods; advantages and disadvantages of foam proportioners, delivery devices, and generating systems; causes of poor foam production.<br><b>FFII Hour 34:</b> Safety precautions at flammable/combustible liquid fire incidents; ways to control Class B fires.                                                               | 9, Vol. 109, Fire Control 1<br>2 (FFII), Vol. 205, Fire Control 2<br>6 (FFII), Vol. 206 Foam Fire Streams                                                         |
| B. Skills               |                                                       | <b>Skill 16-II-1, Skill 16-II-2</b><br><br><i>*JB 17*</i>                                                                                                                                                                | <b>FFII Hours 24-31:</b> Perform various foam application techniques; extinguish a flammable liquid fire.                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                   |
| <b>6.3.2</b>            |                                                       |                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                   |
| A. Knowledge            |                                                       | <b>Chapter 4:</b> Building Construction<br><b>Chapter 9:</b> Structural Search, Victim Removal, and Firefighter Survival<br><b>Chapter 16:</b> Fire Streams<br><b>Chapter 17:</b> Fire Control<br><br><i>*JB 15, 22*</i> | <b>FFII Hour 3:</b> Hazards related to a building's construction; factors that influence the potential of a structural collapse.<br><b>FFII Hour 33:</b> Considerations taken when coordinating fireground operations; process of establishing and transferring command; hazards that may be present at fires in underground spaces.<br><b>FFII Hour 34:</b> Methods used when coordinating operations at a property protected by a fire suppression system.<br><br>Worksheet 13 | 1 (FFII), Vol. 201, Building Construction 3 (FFII), Vol. 203, Advanced Ventilation 5 (FFII), Vol. 205, Fire Control 2<br>7 (FFII), Vol. 207, Fire Hose Appliances |
| B. Skills               |                                                       | <b>Chapter 5:</b> Fire Behavior<br><b>Chapter 11:</b> Forcible Entry<br><b>Chapter 17:</b> Fire Control<br><br><i>*JB 15, 22*</i>                                                                                        | <b>FFII Hours 24-31:</b> Perform various foam application techniques; extinguish a flammable liquid fire.<br><b>FFII Hours 38-43:</b> Command, control, and coordinate a structure fire.                                                                                                                                                                                                                                                                                         |                                                                                                                                                                   |
| <b>6.3.3</b>            |                                                       |                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                   |
| A. Knowledge            |                                                       | <b>Chapter 17:</b> Fire Control<br><br><i>*JB 22*</i>                                                                                                                                                                    | <b>FFII Hour 34:</b> Safety precautions at flammable/combustible liquid fire incidents.                                                                                                                                                                                                                                                                                                                                                                                          | 5 (FFII), Vol. 205, Fire Control 2                                                                                                                                |
| B. Skills               |                                                       | <b>Skill 17-II-2</b><br><br><i>*JB 22*</i>                                                                                                                                                                               | <b>FFII Hours 38-43:</b> Suppress bulk transport vehicle fires and flammable gas incidents.                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                   |
| <b>6.3.4</b>            |                                                       |                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                   |

| <b>NFPA 1001 (2013)</b> | <b>SC DoE Emergency and Fire Mgmt Svcs Objectives</b> | <b>Location in the IFSTA Manual<br/>(*JB* Manual x Ref)</b>                                                                                                                         | <b>Location in the New SC Curriculum Outline</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>Action Training Module</b>             |
|-------------------------|-------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| A. Knowledge            |                                                       | <b>Chapter 19:</b> Fire Origin and Cause Determination<br><br><i>*JB 38*</i>                                                                                                        | <b>FFII Hour 36:</b> Evidence indicating the area of origin or fire cause; roles and responsibilities of responders and investigators involved in fire investigations; legal implications of the location and collection of evidence during a fire investigation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 8 (FFII), Vol. 208, Fire Origin and Cause |
| B. Skills               |                                                       | <b>Skill 19-II-1</b><br><br><i>*JB 38*</i>                                                                                                                                          | <b>FFII Hour 36:</b> Protect evidence of fire cause and origin.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                           |
| <b>6.4</b>              |                                                       |                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                           |
| <b>6.4.1</b>            |                                                       |                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                           |
| A. Knowledge            |                                                       | <b>Chapter 10:</b> Scene Lighting, Rescue Tools, Vehicle Extrication, and Technical Rescue<br><br><i>*JB 26*</i>                                                                    | <b>FFII Hour 5:</b> The role of a fire department during vehicle extrication; define terms; identify organizations relevant to extrication operations; responsibilities of the rescue organization and personnel; facts about hazard and risk assessment surveys.<br><b>FFII Hour 6:</b> Safety considerations during extrication; standards relating to managing an extrication incident; the importance of training; early stages of an emergency extrication response; duties of outside agencies; Incident Command/Management as it relates to extrication operations.<br><b>FFII Hour 7:</b> Vehicle classifications; vehicle anatomy; vehicle frames; restraint and roll-over protection systems; materials used in vehicle windows; fuels and fuel systems; exhaust systems; powertrain systems; vehicle science concepts.<br><b>FFII Hour 8:</b> Types, uses, and limitations of rescue tools and equipment; precautions against blood borne pathogens.<br><b>FFII Hour 10:</b> Use and types of cribbing material; methods for gaining access to victims; classes of cars and trucks; safety features and concerns relating to passenger vehicles; size-up concerns; extrication tactics. | 2 (FFII), Vol. 202, Rescue Operations     |
| B. Skills               |                                                       | <b>Skill 10-II-2, Skill 10-II-3, Skill 10-II-4, Skill 10-II-5, Skill 10-II-6, Skill 10-II-7, Skill 10-II-8, Skill 10-II-9, Skill 10-II-10, Skill 10-II-11</b><br><br><i>*JB 26*</i> | <b>FFII Hour 12:</b> Use stabilization equipment for stabilizing an upright vehicle prior to extrication.<br><b>FFII Hours 13-20:</b> Prevent horizontal movement using wheel chocks; stabilize a vehicle using cribbing, lifting jacks, ropes and webbing; buttress tension system; remove a windshield, side window glass, passenger vehicle door, roof; displace the steering wheel and dashboard.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                           |
| <b>6.4.2</b>            |                                                       |                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                           |
| A. Knowledge            |                                                       | <b>Chapter 10:</b> Scene Lighting, Rescue Tools, Vehicle Extrication, and Technical Rescue                                                                                          | <b>FFII Hour 5:</b> Hazard and risk assessment surveys; role of personnel responding to an extrication incident.<br><b>FFII Hour 6:</b> Safety considerations during extrication; duties of personnel.<br><b>FFII Hour 8:</b> Types, uses, and limitations of rescue tools and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2 (FFII), Vol. 202, Rescue Operations     |

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|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
|                         |                                                                                                                                                                                     | <i>*JB 9, 27*</i>                                                                                                                                                     | equipment; PPE; precautions against blood borne pathogens; types of rescue vehicles, equipment, and accessories; types and functions of tools and equipment.<br><b>FFII Hour 9:</b> Types of control zones established during extrication; procedures for stabilizing vehicles; methods for lifting vehicles; methods for displacing a vehicle roof, removing a steering column; displacing a dashboard.<br>Information sheet 6 |                                                                                                                      |
| B. Skills               |                                                                                                                                                                                     | <b>Chapter 10:</b> Scene Lighting, Rescue Tools, Vehicle Extrication, and Technical Rescue<br><b>Chapter 11:</b> Forcible Entry<br><i>*JB 9, 27*</i>                  | <b>FFII Hour 11:</b> Describe the basic functions and purposes of hand and power tools used for passenger vehicle extrication.                                                                                                                                                                                                                                                                                                  |                                                                                                                      |
| <b>6.5</b>              |                                                                                                                                                                                     |                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                      |
| <b>6.5.1</b>            |                                                                                                                                                                                     |                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                      |
| A. Knowledge            | <b>Unit J Objective 3:</b> Demonstrate knowledge of fire prevention.<br><b>Unit J Objective 4:</b> Demonstrate knowledge of the importance of public relations in the fire service. | <b>Chapter 21:</b> Fire and Life Safety Initiatives<br><br><i>*JB 23, 36*</i>                                                                                         | <b>FFII Hour 46:</b> Role of the FFII in planning for and conducting private dwelling fire safety surveys.<br><br>Worksheet 30                                                                                                                                                                                                                                                                                                  | 2 (FFII), Vol. 209, Pre-Incident and Fire Safety Surveys<br>2 (FFII), Vol. 210, Fire Prevention and Public Education |
| B. Skills               |                                                                                                                                                                                     | <b>Skill 21-II-1, Skill 21-II-2, Skill 21-II-3, Skill 21-II-4</b><br><br><i>*JB 36*</i>                                                                               | <b>FFII Hour 46:</b> Conduct a fire safety survey.<br><b>FFII Hours 47-48:</b> Develop and give a fire and life safety presentation.<br><b>FFII Hour 49:</b> Conduct a fire station tour.                                                                                                                                                                                                                                       |                                                                                                                      |
| <b>6.5.2</b>            |                                                                                                                                                                                     |                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                      |
| A. Knowledge            | <b>Unit J Objective 4:</b> Demonstrate knowledge of the importance of public relations in the fire service.                                                                         | <b>Chapter 21:</b> Fire and Life Safety Initiatives<br><br><i>*JB 36*</i>                                                                                             | <b>FFII Hour 46:</b> Components and audience considerations when developing and giving a fire and life safety presentation.                                                                                                                                                                                                                                                                                                     | 2 (FFII), Vol. 210, Fire Prevention and Public Education                                                             |
| B. Skills               |                                                                                                                                                                                     | <b>Skill 21-II-2, Skill 21-II-2, Skill 21-II-3</b><br><br><i>*JB 36*</i>                                                                                              | <b>FFII Hour 46:</b> Conduct a fire safety survey in an occupied structure.<br><b>FFII Hours 47-48:</b> Develop and give a fire and life safety presentation.<br><b>FFII Hour 49:</b> Conduct a fire station tour.                                                                                                                                                                                                              |                                                                                                                      |
| <b>6.5.3</b>            |                                                                                                                                                                                     |                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                      |
| A. Knowledge            |                                                                                                                                                                                     | <b>Chapter 20:</b> Fire Protection Systems (NOTE: This chapter addresses FFII only.)<br><b>Chapter 21:</b> Fire and Life Safety Initiatives<br><br><i>*JB 23, 37*</i> | <b>FFII Hour 44:</b> Describe alarm systems; alarm initiating devices; how automatic sprinkler systems work; standpipe and hose systems.                                                                                                                                                                                                                                                                                        | 2 (FFII), Vol. 204, Water Supply<br>2 (FFII), Vol. 209, Pre-Incident and Fire Safety Surveys                         |
| B. Skills               |                                                                                                                                                                                     | <b>Skill 21-II-4</b>                                                                                                                                                  | <b>FFII Hour 46:</b> Prepare a pre-incident planning survey.                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                      |

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|                     |                                                | *JB 23*                                                                                                                              |                                                                                       |                                          |
| <b>6.5.4</b>        |                                                |                                                                                                                                      |                                                                                       |                                          |
| A. Knowledge        |                                                | <b>Chapter 10:</b> Scene Lighting, Rescue Tools, Vehicle Extrication, and Technical Rescue<br><br>*JB 9, 19*                         | <b>FFII Hour 8:</b> Types, uses, and limitations of rescue tools and equipment.       | 20, Vol. 120, Lighting and Power Sources |
| B. Skills           |                                                | <b>Skill 10-II-1</b><br><br>*JB 9, 19*                                                                                               | <b>FFII Hours 5, 6:</b> Procedures for maintaining generators and lighting equipment. |                                          |
| <b>6.5.5</b>        |                                                |                                                                                                                                      |                                                                                       |                                          |
| A. Knowledge        |                                                | <b>Chapter 15:</b> Fire Hose<br><br>*JB 16*                                                                                          | <b>FFII Hour 22:</b> Safety considerations when service testing a fire hose.          |                                          |
| B. Skills           |                                                | <b>Skill 15-II-1</b><br><br>*JB 16*                                                                                                  | <b>FFII Hours 24-31:</b> Service test fire hose.                                      |                                          |
|                     |                                                |                                                                                                                                      |                                                                                       |                                          |
| <b>NFPA: HM/WMD</b> |                                                | Hazmat Awareness, Hazmat Operations prerequisites<br>*HMA: JB 28, 29, 30, 31, 32*<br>*HMO: JB 28, 30<br>*WMD: JB 29, 30, 31, 32, 33* | Worksheets 31, 32, 33<br><br>See SCFA's HMA, HMO                                      |                                          |