

SD Certified Firefighter Course Syllabus

(For any new courses starting after July 1st, 2021)

Course Description: The SD Certified Firefighter Course is the foundation of the SD Fire Service Training Program. Below is a listing of the curriculum, online training course sections, hands on skills and testing that are required to become a SD Certified Firefighter. Course curriculum follows the NFPA 1001 (2019 edition) Standard for Fire Fighter Professional Qualifications for Firefighter I and Firefighter II.

Options: SD Fire Departments/Instructors now have the option of delivering the SD Certified Firefighter course using:

1. A traditional classroom setting.
2. A combination of the traditional classroom and online course curriculum.

Instructor: The course must be proctored/led by a SD Certified Fire Service Instructor.

Funding: \$750.00 in SD Firefighter Essentials Grant Program funding may be available to a grantee agency upon successful completion of the SD Certified Firefighter Course, The State Fire Marshal's Office needs to be contacted and the Firefighter Essentials Grant Project Agreement completed before the start of a SD Certified Firefighter Course. For more information contact the State Fire Marshal's Office.

Approved Curriculum:

IFSTA:

Essentials of Fire Fighting 7th edition (IFSTA).

Jones & Bartlett:

Fundamentals of Fire Fighter Skills & Hazardous Materials Response 4th edition. (Jones & Bartlett)

Classroom Led Courses:

Instructors should use the training materials and presentations designed and provided for the approved curriculum.

Interactive Online Courses:

Action Training Systems (ATS Online) Interactive Courses: An access code is required for each student using the online courses. Access codes can be purchased thru the SD Redbook Fund at a fee of \$30.00 each. ATS Online access codes are valid for one year: from September 1 – August 31 of the following year. The SD Redbook contact is Adam Frick @ 1-605-760-4693 or sdredbook@gmail.com

Classes must be set up with the Deputy State Fire Marshal serving that area. A list of students attending along with their user name and e-mail shall also be emailed to Michael.Jones@state.sd.us. Mike will put a report plan together so weekly informational emails can be sent to the instructor with progress updates for the students in their class.

Note: ATS Online courses are designed to follow the NFPA 1001 standard and they can be used with either the IFSTA or Jones & Bartlett curriculum. Layout of the information is slightly different in each curriculum, so use the attached correlation guide below to match each online course with the proper curriculum chapter.

Please see last page to assist with aligning the corresponding Classes with the Certification Green Card.

Testing:

- **(Online Classes/combo traditional classroom) Students must pass the Online Course Chapter testing to get certificate/credit for that specific class.** The online testing/completion will be monitored directly by the State Fire Marshal's office and the Class Proctor/ Lead Instructor.
- **Student must pass the Fire Fighter I and Fire Fighter II written tests with a 70% or better grade.** (Tests given by the State Fire Marshal's Office)
- **Student must also pass the SD Certified Firefighter Practical Skill Test** (State Fire Marshal's Office or Third-Party Evaluation)
- **For the student to be eligible to participate in any live fire training evolution (Per NFPA 1403), they must take and pass the Firefighter I training and written test.**

Fire Fighter I

The below listing shows the chapters to read, the classroom led instruction and/or the online class completion required to get the sections completed and signed off on the Certification Card.

Fire Service & History & Safety:

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|---|---|
| IFSTA 7 th - Chapter 1 | Introduction to the Fire Service and Firefighter Safety |
| J&B 4 th - Chapter 1, 2, 18 & 20 | The Fire Service, Firefighter Health and Safety, Firefighter Survival & Firefighter Rehab |
| ATS Online: | FF101 Firefighter Safety: Part 1, FF102 Firefighter Safety: Part 2 |

Communications:

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|-----------------------------------|---|
| IFSTA 7 th - Chapter 2 | Communications |
| J&B 4 th - Chapter 4 | Fire Service Communications |
| ATS Online: | FF119 Fire Detection, Alarms & Communications |

Building Construction:

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|-----------------------------------|-----------------------------|
| IFSTA 7 th – Chapter 3 | Building Construction |
| J&B 4 th - Chapter 6 | Building Construction |
| ATS Online: | FF201 Building Construction |

Personal Protective Equipment & SCBA:

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|-----------------------------------|--|
| IFSTA 7 th - Chapter 5 | Firefighter Personal Protective Equipment |
| J&B 4 th - Chapter 3 | Personal Protective Equipment |
| ATS Online: | FF104 SCBA1: Introduction, FF105 SCBA 2: Use & Maintenance, FF106 Personal Protective Clothing |

8-hour field practical and class discussion, students must be proficient in the skills they are performing.

Fire Behavior/Dynamics:

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|-----------------------------------|---------------------|
| IFSTA 7 th - Chapter 4 | Fire Dynamics |
| J&B 4 th - Chapter 5 | Fire Behavior |
| ATS Online: | FF103 Fire Behavior |

Extinguishers:

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|-----------------------------------|------------------------------|
| IFSTA 7 th - Chapter 6 | Portable Fire Extinguishers |
| J&B 4 th - Chapter 7 | Portable Fire Extinguishers |
| ATS Online: | FF107 Portable Extinguishers |

Ropes & Knots:

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|-----------------------------------|---------------------|
| IFSTA 7 th – Chapter 7 | Ropes and Knots |
| J&B 4 th - Chapter 9 | Ropes and Knots |
| ATS Online: | FF108 Ropes & Knots |

Ground Ladders:

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|-----------------------------------|----------------------------------|
| IFSTA 7 th – Chapter 8 | Ground Ladders |
| J&B 4 th - Chapter 11 | Ladders |
| ATS Online: | FF110 Ladders 1, FF111 Ladders 2 |

8-hour field practical and class discussion, students must be proficient in the skills they are performing.

Forcible Entry:

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|--------------------------------------|---|
| IFSTA 7 th – Chapter 9 | Forcible Entry |
| J&B 4 th - Chapter 8 & 10 | Firefighter Tools & Equipment, Forcible Entry |
| ATS Online: | FF118 Forcible Entry |

Structural Search & Rescue:

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|------------------------------------|----------------------------|
| IFSTA 7 th – Chapter 10 | Structural Search & Rescue |
| J&B 4 th – Chapter 12 | Search & Rescue |
| ATS Online | FF202 Rescue Operations |

Ventilation:

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|------------------------------------|---|
| IFSTA 7 th - Chapter 11 | Tactical Ventilation |
| J&B 4 th - Chapter 13 | Ventilation |
| ATS Online: | FF112 Ventilation Basics & Horizontal Procedures, FF113 Vertical Ventilation, FF203 Advanced Ventilation |

Hose & Appliance:

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|---|---|
| IFSTA 7 th – Chapter 12, 13 & 21 | Fire Hose, Hose Operations and Hose Streams, Maintenance and Testing Responsibilities |
| J&B 4 th - Chapter 14, 15 & 16 | Water Supply Systems, Fire Hose, Appliances and Nozzles, Supply Line and Attack Line Evolutions |
| ATS Online: | FF114 Fire Hose Basics, FF115 Handling Hose, FF204 Water Supply FF116 Advancing Hose lines, FF207 Fire Hose Appliances |

Suppression & Ground Fires:

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|---------------------------------------|---|
| IFSTA 7 th - Chapter 14 | Fire Suppression |
| J&B 4 th - Chapter 17 & 21 | Fire Suppression, Wildland and Ground Cover Fires |
| ATS Online: | FF109 Fire Control 1, FF205 Fire Control 2 |

Salvage & Overhaul:IFSTA 7th – Chapter 15J&B 4th - Chapter 19

ATS Online:

Overhaul, Property Conservation and Scene Preservation

Salvage & Overhaul

FF121 Property Conservation: Salvage,

FF122 Property Conservation: Overhaul

8-hour field practical and class discussion, students must be proficient in the skills they are performing.

Hazardous Materials Awareness:IFSTA 7th – Chapter 24

J&B - Chapter 29-30

ATS Online:

Analyzing the Incident

Hazardous Materials Regulations, Standards, and Laws & Recognizing and Identifying the Hazards.

HA001 - HAZMAT Recognition, HA002 HAZMAT Identification

Hazardous Materials Operations:IFSTA 7th - Chapters 25-26

J&B - Chapter 31-37

ATS Online:

Action Options and Response Objectives; PPE, Product Control and Decontamination

Properties and Effects, Understanding the Hazards, Estimating Potential Harm and Planning a Response, Implementing the Planned Response, Hazardous Materials Responder Health and Safety, Hazardous Materials Responder Personal Protective Equipment & Product Control.

HR001 HAZMAT Containers Scene Safety, HR002 HAZMAT Response Sources & Terminology, HR003 HAZMAT Defensive Options & Objectives, HR004 HAZMAT Protection & Decontamination, HR005 HAZMAT Scene Control & Safety Measures, HR006 HAZMAT Defensive Actions HR007 Terrorism & WMD Awareness, CO001 Plugging & Patching Drums, CO002 Containing Leaks in Pressurized Cylinders, CO003 Diking, Diverting & Retaining Spills, CO004 Incidents Involving Fuel Tank Trucks.

DE001 Why Decontaminate, DE002 Decontamination Procedures, DE003 Handling Contaminated Victims, DE004 Mass Decontamination.

Incident Command System (with NIMS review)

NIMS/ICS Online Classes (Online classes provided by FEMA) must be completed before the Fire Fighter I written test is taken.

Attendance will be signed off on the certification card by the lead instructor after the online training is completed and the certificates are handed in. Links to the classes provided below.

IS 100: <http://training.fema.gov/EMIWeb/IS/is100b.asp>IS 200: <http://training.fema.gov/EMIWeb/IS/is200b.asp>IS 700: <http://training.fema.gov/EMIWeb/IS/is700a.asp>**Additional ICS training is included in the curriculum (Optional)**

IFSTA 7th Chapter 19 & 27 Incident Scene Operations and National Incident Management System – Incident Command Structure

J&B 4th Chapter 22 Establishing and Transferring Command

ATS Online: ICM003 National Incident Management System (NIMS) ICM004 Fire Service:
Initial Command, ICM005 Fire Service: Expanding Command

Note: Additional Classroom time may be needed for Hazardous Material classes.
8-hour field practical and class discussion, students must be proficient in the skills they are performing.

Fire Fighter I Written Test, Green card performance competencies must be completed before a student has met the standards to test. See the last page for performance competencies of requirements (SD Fire Marshal's Office)

Note: If at any time throughout the course, the Proctor/Lead Instructor feels that a student may need additional time in a particular subject matter (whether that be classroom, online instruction or hands on skills), they may instruct the student to retake any portion of the course they deem necessary. It is the Proctor/Lead Instructors ultimate responsibility to make sure that their students have met the minimum level of knowledge, skills and abilities to be able to be called a SD Certified Firefighter.

Fire Fighter II

CPR-AED

J&B 4th – (not included) (First Aid & CPR are not included in this curriculum) Recommend having
outside source (must meet BLS/Healthcare Provider level) provide this
instruction or ATS online.

First Aid, Infection, Bleeding & Shock Control

IFSTA 7th – Chapter 23 First Aid Provider

ATS Online: ID001 Blood borne Pathogens, ID002 Airborne Pathogens & Other
Diseases, ID003 Infection Control Practices, ER002 Workforce Safety,
ER003 Primary Patient Assessment, ER008 Bleeding, ER009 Shock,
ER011 Resuscitation

Advanced Fire Suppression:

IFSTA 7th – Chapter 16 & 18 Foam Fire Fighting, Liquid Fires and Gas Fires

J&B 4th - Chapter 23 Advanced Fire Suppression

ATS Online: FF117 Fire Streams,
FF206 Foam Fire Streams

8-hour field practical and class discussion, students must be proficient in the skills they are performing.

Vehicle Extrication & Assisting Technical Rescue:

IFSTA 7th – Chapter 17 Technical Rescue Support and Vehicle Extrication Operations.

J&B 4th - Chapter 24 & 25 Vehicle Rescue and Extrication, Assisting Special Rescue Teams

ATS Online: VX001 Incident Overview, VX002 Stabilization, VX003 Hazard Control &
Safety, VX004 Initial Procedures, VX005 Door and Sidewall Procedures,
VX006, Roof and Truck Procedures, VX007 Interior Procedures, VX008

Hybrid and Electric Vehicles, VX009 Advanced Steel, VX010 Hand Tools Only, FF120 Lighting & Power Sources

Community Risk Reduction & Building Safety Systems

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|------------------------------------|---|
| IFSTA 7 th – Chapter 22 | Community Risk Reduction |
| J&B - Chapter 26-27 | Fire Detection, Suppression, and Smoke Control Systems & Fire and Life Safety Initiatives. |
| ATS Online: | FF119 Fire Detection, Alarms & Communications, FF123 Sprinkler Systems EF209 Pre-Incident & fire Safety Surveys, FF210 Fire Prevention & Public Education |

Fire Origin & Cause:

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|------------------------------------|-------------------------------------|
| IFSTA 7 th – Chapter 20 | Fire Origin and Cause Determination |
| J&B 4 th - Chapter 28 | Fire Origin and Cause |
| ATS Online: | FF208 Fire Origin & Cause |

8-hour field practical and class discussion, students must be proficient in the skills they are performing.

Fire Fighter II Written Test, Certification Green card must have completed class attendance for Fire Fighter II before a student has met the standards to test.

Note: If at any time throughout the course, the Proctor/Lead Instructor feels that a student may need additional time in a particular subject matter (whether that be classroom, online instruction or hands on skills), they may instruct the student to retake any portion of the course they deem necessary. It is the Proctor/Lead Instructors ultimate responsibility to make sure that their students have met the minimum level of knowledge, skills and abilities to be able to be called a SD Certified Firefighter.

To be able to take the SD Certified Firefighter Practical Skill Test, the SD Certified Firefighter Certification Card must be fully completed by having all the Firefighter I and Fire Fighter II class sections signed and dated; all performance competencies on the back of the card signed and dated; show that the Firefighter I and Firefighter II written tests were passed (initialed by FMO Staff); the student's signature, lead instructor's signature and the student departments Fire Chief's signature on the back of the SD Certified Firefighter Certification Card.

Students that pass the Fire Fighter I and Fire Fighter II written test but are not able to perform any performance Competencies or Practical Skill Test, would not meet the level for Certified Firefighter certification, but would be eligible for the **SD Fire Ground Support** designation.

The State Fire Marshal's office will use the Fire Fighter I, Fire Fighter II written tests and the SD Certified Firefighter Practical Skills evaluation to confirm those students' training before allowing them certification.

Timeframe to Complete: The State Fire Marshal's Office allows the students up to a 3-year timeframe in which to complete the SD Certified Firefighter course once they start taking classes. Note: SD Fire Departments may require a quicker timeline for completion of this course for the members under their control. Note: (ATS Online) Access codes are only good for just one year (September 1 to August 31) or they must keep it activated to complete the class.

The sections listed below are to be completed for each section before a student can qualify to take the corresponding SD Certified Firefighter written test. The performance competencies are listed on the back of the students Certification Green card.

PERFORMANCE COMPETENCIES

Given a selection of portable extinguishers, demonstrate extinguishment of an actual incipient stage class A, B, or C fires

Given rope and a 24' ladder, raise and extend ladder and hoist a tool.

Using simulation, force entry through two type of doors, two types of windows and a wall or floor

Horizontally ventilate a building using positive and/or negative pressure ventilation

Connect a fire department pumper to a fire hydrant and operate the hydrant

Connect a fire department pumper to static water supply

Unload and carry hose up a stairway and/or ladder.

While wearing full PPE demonstrate proficiency in the operation of SCBA while conducting a search in a smoke filled or visibility obscured structure. (Smoke machine or simulated IDLH)

Working as a member of a team, extricate a victim from a vehicle

As a member of a firefighting team, in full PPE and SCBA, participate in the control of a live fire.
& Chapter 16: Building Materials, Structural Collapse and Effects of Fire Suppression

SOUTH DAKOTA CERTIFIED FIREFIGHTER COURSE

NFPA 1001, 2019 Edition

| | | | |
|--|------|--|---|
| STUDENT NAME | | DRIVERS LICENSE NUMBER AND STATE ISSUED | |
| COMPLETE MAILING ADDRESS & PHONE NUMBER | | FIRE DEPARTMENT OR AGENCY | |
| FIREFIIGHTER I | | FIREFIIGHTER I (continued) | |
| Fire Service & History & Safety <i>IFSTA 7th Chap 1 Jones & Bartlett 4th Chap 1,2,18,20</i> <i>FF101, FF102</i> | DATE | Incident Command System (with NIMS review) ICS 100, 200; NIMS 700 (must be completed prior to FF 1 test) <i>www.training.fema.gov</i> <i>IFSTA 7th Chap 19,27 Jones & Bartlett 4th Chap 22</i> <i>ICM003, ICM004, ICM005</i> | DATE |
| Communications <i>IFSTA 7th Chap 2 Jones & Bartlett 4th Chap 4</i> <i>FF119</i> | DATE | FIREFIIGHTER 2 | |
| Building Construction <i>IFSTA 7th Chap 3 Jones & Bartlett 4th Chap 6</i> <i>FF201</i> | DATE | | |
| Personal Protective Equipment <i>IFSTA 7th Chap 5 Jones & Bartlett 4th Chap 3</i> <i>FF104, FF105, FF106</i> | DATE | | Fire Origin & Cause <i>IFSTA 7th Chap 20 Jones & Bartlett 4th Chap 28</i> <i>FF208</i> |
| Fire Behavior/Dynamics <i>IFSTA 7th Chap 4 Jones & Bartlett 4th Chap 5</i> <i>FF103</i> | DATE | Advanced Fire Suppression <i>IFSTA 7th Chap 16,18 Jones & Bartlett 4th Chap 23</i> <i>FF117, FF206</i> | DATE |
| Extinguishers <i>IFSTA 7th Chap 6 Jones & Bartlett 4th Chap 7</i> <i>FF107</i> | DATE | Vehicle Extrication & Assisting Technical Rescue <i>IFSTA 7th Chap 17 Jones & Bartlett 4th Chap 24,25</i> <i>VX001, VX002, VX003, VX004, VX005, VX006, VX007, VX008</i> <i>VX009, VX010, FF120</i> | DATE |
| Ropes & Knots <i>IFSTA 7th Chap 7 Jones & Bartlett 4th Chap 9</i> <i>FF108</i> | DATE | Community Risk Reduction & Building Safety Systems <i>IFSTA 7th Chap 22 Jones & Bartlett 4th Chap 26-27</i> <i>FF119, FF123, FF210</i> | DATE |
| Ground Ladders <i>IFSTA 7th Chap 8 Jones & Bartlett 4th Chap 11</i> <i>FF110, FF111</i> | DATE | CPR - AED <i>Health Care Provider level.</i> <i>ER011</i> | DATE |
| Forcible Entry <i>IFSTA 7th Chap 9 Jones & Bartlett 4th Chap 8,10</i> <i>FF118</i> | DATE | First Aid <i>ID001, ID002, ID003, ER002, ER003, ER008, ER009</i> | DATE |
| Structural Search & Rescue <i>IFSTA 7th Chap 10 Jones & Bartlett 4th Chap 12</i> <i>FF202</i> | DATE | (FOR FIRE MARSHAL USE ONLY) FIREFIIGHTER I WRITTEN TEST RESULTS TEST DATE _____ PASS / FAIL RE-TEST DATE _____ PASS / FAIL | |
| Ventilation <i>IFSTA 7th Chap 11 Jones & Bartlett 4th Chap 13</i> <i>FF112, FF113, FF203</i> | DATE | FIREFIIGHTER 2 WRITTEN TEST RESULTS TEST DATE _____ PASS / FAIL RE-TEST DATE _____ PASS / FAIL | |
| Hose & Appliances <i>IFSTA 7th Chap 12,13,21 Jones & Bartlett 4th Chap 14,15,16</i> <i>FF114, FF115, FF116, FF204, FF207</i> | DATE | PRACTICAL SKILLS EXAM DATE: _____ | |
| Suppression & Ground Fires <i>IFSTA 7th Chap 14 Jones & Bartlett 4th Chap 17,21</i> <i>FF109, FF205</i> | DATE | FULL CERTIFICATION or FIRE GROUND SUPPORT STAFF SIGNATURE: _____ _____ date _____ | |
| Salvage & Overhaul <i>IFSTA 7th Chap15 Jones & Bartlett 4th Chap 19</i> <i>FF121, FF122</i> | DATE | | |
| Hazardous Materials Awareness/Operations <i>IFSTA 7th 24, 25-26 Jones & Bartlett 4th 29-30, 31-37</i> <i>HA001, HA002, HR001, HR002, HR003, HR004, HR005, HR006 HR007, CO001, CO002, CO003, CO004, DE001, DE002, DE003, DE004</i> | DATE | | |

