

# SD Certified Firefighter Course Syllabus

**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 be completed in order to become a SD Certified Firefighter. Course curriculum follows the NFPA 1001 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. The new online/classroom course setting.

**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 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 and Fire Department Operations 6<sup>th</sup> edition (IFSTA).

Essentials of Fire Fighting 7<sup>th</sup> edition (IFSTA).

### **Jones & Bartlett:**

Fundamentals of Fire Fighter Skills 3<sup>rd</sup> edition. (J&B)

Fundamentals of Fire Fighter Skills 4<sup>th</sup> edition. (J&B)

### **Classroom Led Courses:**

Instructors should use the training materials and PowerPoint 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. ATS Online access codes are valid for one year: from September 1 – August 31 of following year. SD Redbook Contact is Adam Frick @ 1-605-760-4693 or [sdredbook@gmail.com](mailto:sdredbook@gmail.com)  
Classes must be set up with your local Fire Marshal and a list of students attending will be emailed to [Michael.Jones@state.sd.us](mailto:Michael.Jones@state.sd.us) and a group will be set up for that class and an informational email will be sent to you weekly with progress of your students.

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

**Please see last page to assist with the corresponding Online Classes with the Yellow Card.**

## Testing:

- **(Online Only) Students must pass the Online Course Chapter testing.** The online testing will be monitored directly by the State Fire Marshal's office and the Class Proctor/ Lead Instructor.
- **Pass Unit I and Unit II written tests with a 70% or better grade.** (Given by the State Fire Marshal's Office)
- **And pass the SD Certified Firefighter Practical Skill Test** (Third Party Evaluation)

## UNIT I

NIMS/ICS Online Classes (Online classes provided by FEMA) must be completed before the FFI 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>

IFSTA 7<sup>th</sup> additional ICS training in Chapter 19: Incident Scene Operations and Chapter 27: National Incident Management System – Incident Command Structure

**Below listing shows the chapters to read, the classroom led instruction and the online class completion required to get the particular attendance section signed off of on the Certification Card.**

**Orientation and Fire Service History:** Optional: not on certification card (PowerPoint presentation is available for classroom led class or can leave it up to students as a read only.)

Instructors may wish to instruct this when they are just starting the course at the same time they inform the student on their class expectations.

### **Orientation:**

J&B - Chapter 1	The History and Orientation of the Fire Service
IFSTA 6 <sup>th</sup> - Chapter 1	Orientation and Fire Service History
IFSTA 7 <sup>th</sup> - Chapter 1 (pg 8-23)	Introduction to the Fire Service and Firefighter Safety

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### **Communications:**

J&B - Chapter 4	Fire Service Communications
IFSTA 6 <sup>th</sup> - Chapter 3	Fire Department Communications
IFSTA 7 <sup>th</sup> - Chapter 2	Communications
ATS Online:	<b>Firefighter 1</b> – EF119 Fire Detection, Alarms & Communications

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### **Safety:**

J&B - Chapter 2 & 18	Fire Fighter Safety & Fire Fighter Survival
IFSTA 6 <sup>th</sup> - Chapter 2	Firefighter Safety and Health
IFSTA 7 <sup>th</sup> - Chapter 1 (pg 24-end)	Introduction to the Fire Service and Firefighter Safety
ATS Online:	<b>Firefighter I</b> – EF101 Firefighter Safety: Part 1, EF102 Firefighter Safety: Part 2

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**Fire Behavior:**

J&B - Chapter 6	Fire Behavior
IFSTA 6th - Chapter 5	Fire Behavior
IFSTA 7 <sup>th</sup> - Chapter 4	Fire Dynamics
ATS Online:	<b>Firefighter 1</b> – EF103 Fire Behavior

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**Extinguishers:**

J&B - Chapter 8	Portable Fire Extinguishers
IFSTA 6 <sup>th</sup> - Chapter 7	Portable Fire Extinguishers
IFATA 7 <sup>th</sup> - Chapter 6	Portable Fire Extinguishers
ATS Online:	<b>Firefighter 1</b> – EF107 Portable Extinguishers

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**Personal Protective Equipment & SCBA:**

J&B - Chapter 3	PPE and Self-Contained Breathing Apparatus
IFSTA 6 <sup>th</sup> - Chapter 6	Firefighter Personal Protective Equipment
IFSTA 7 <sup>th</sup> - Chapter 5	Firefighter Personal Protective Equipment
ATS Online:	<b>Firefighter I</b> – EF104 SCBA1: Introduction, EF105 SCBA 2: Use & Maintenance, EF106 Personal Protective Clothing

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

- A roster of attendee's and time spent on practical's to be provided at testing time.
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**Tools and Equipment:**

J&B - Chapter 9	Fire Fighter Tools and Equipment
IFSTA 6 <sup>th</sup> - Chapter 10	pages 476-503 Scene Lighting
IFSTA 7 <sup>th</sup> -	Chapter 21 Maintenance and Testing Responsibilities
ATS Online:	<b>Firefighter I</b> – EF120 Lighting & Power Sources

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**Ropes & Knots:**

J&B - Chapter 10	Ropes and Knots
IFSTA 6 <sup>th</sup> - Chapter 8	Ropes, Webbing, and Knots
IFSTA 7 <sup>th</sup> – Chapter 7	Ropes and Knots
ATS Online:	<b>Firefighter I</b> – EF108 Ropes & Knots

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**Fire Control/Suppression:**

J&B - Chapter 11, 21-22	Response and Size-up & Fire Suppression
IFSTA 6 <sup>th</sup> - Chapter 17	Fire Control
IFSTA 7 <sup>th</sup> - Chapter 14	Fire Suppression
ATS Online:	<b>Firefighter I</b> – EF109 Fire Control 1, <b>Firefighter II</b> – EF205 Fire Control 2

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**Forcible Entry:**

J&B - Chapter 12	Forcible Entry
IFSTA 6 <sup>th</sup> -Chapter 11	Forcible Entry
IFSTA 7 <sup>th</sup> – Chapter 9	Forcible Entry
ATS Online:	<b>Firefighter I</b> – EF118 Forcible Entry

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

- A roster of attendee's and time spent on practical's to be provided at testing time.
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**Ladders:**

J&B - Chapter 13	Ladders
IFSTA 6 <sup>th</sup> - Chapter 12	Ground Ladders
IFSTA 7 <sup>th</sup> – Chapter 8	Ground Ladders
ATS Online:	<b>Firefighter 1</b> – EF110 Ladders 1, EF111 Ladders 2

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**Ventilation:**

J&B - Chapter 15	Ventilation
IFSTA 6 <sup>th</sup> - Chapter 13	Tactical Ventilation
IFSTA 7 <sup>th</sup> - Chapter 11	Tactical Ventilation
ATS Online:	<b>Firefighter I</b> – EF112 Ventilation Basics & Horizontal Procedures, EF113 Vertical Ventilation, <b>Firefighter II</b> – EF203 Advanced Ventilation

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**Water Supply:**

J&B - Chapter 16	Pages 486-504 Water Supply
IFSTA 6 <sup>th</sup> - Chapter 14	Water Supply
IFSTA 7 <sup>th</sup> – Chapter 13	Hose Operations and Hose Streams (pg 585-597)
ATS Online:	<b>Firefighter II</b> – EF204 Water Supply

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

- A roster of attendee's and time spent on practical's to be provided at testing time.
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**Fire Detection & Sprinkler Systems:**

J&B - Chapter 37	Fire Detection, Protection, and Suppression Systems
IFSTA 6 <sup>th</sup> - Chapter 20	Fire Protection Systems
IFSTA 7 <sup>th</sup> – Chapter 22	Community Risk Reduction (pg 991-end)
ATS Online:	<b>Firefighter 1</b> –EF119 Fire Detection, Alarms & Communications, EF123 Sprinkler Systems

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**Hose & Appliance:**

J&B - Chapter 16	Pages 504-544 Water Supply
IFSTA 6 <sup>th</sup> - Chapter 15	Fire Hose
IFSTA 7 <sup>th</sup> – Chapter 12	Fire Hose & Chapter 13 Hose Operations and Hose Streams (pg597-end)
ATS Online:	<b>Firefighter 1</b> – EF114 Fire Hose Basics, EF115 Handling Hose, EF116 Advancing Hose lines, <b>Firefighter II</b> – EF207 Fire Hose Appliances

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**Hazardous Materials Awareness:**

J&B - Chapter 28-30	Hazardous Materials Awareness
IFSTA 6 <sup>th</sup> - Chapter 23	Hazards, Behavior, and Identification of Haz Mat/WMD
IFSTA 7 <sup>th</sup> – Chapter 24	Analyzing the Incident
ATS Online:	<b>HM Awareness</b> – HA001 - HAZMAT Recognition, HA002 HAZMAT Identification

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Note: Additional Class room 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.

- A roster of attendee's and time spent on practical's to be provided at testing time.

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**Unit I Written Test**, Yellow 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.

## UNIT II

### **Fire Streams/Attack & Foam:**

J&B - Chapter 17	Fire Attack and Foam
IFSTA 6 <sup>th</sup> - Chapter 16	Fire Streams
IFSTA 7 <sup>th</sup> – Chapter 18	Foam Fire Fighting, Liquid Fires and Gas Fires
ATS Online:	<b>Firefighter 1</b> – EF117 Fire Streams, <b>Firefighter II</b> – EF206 Foam Fire Streams

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### **Rescue & Extrication:**

J&B - Chapter 14, 26-27	Search & Rescue, Vehicle Rescue and Extrication, Special Rescue Teams
IFSTA - Chapter 9-10	Structural Search, Victim Removal and Firefighter Survival, Chapter 10 Pages 504-551 Vehicle Extrication & Technical Rescue
IFSTA 7 <sup>th</sup> – Chapter 10,17	Chapter 10 Structural Search and Rescue & Chapter 17 Technical Rescue Support and Vehicle Extrication Operations.
ATS Online	<b>Firefighter II</b> – EF202 Rescue Operations, <b>Vehicle Extrication</b> – VX001 Incident Overview, VX002 Stabilization, VX003 Hazard Control & Safety, VX010 Hand Tools Only

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### **Salvage & Overhaul or Loss Control:**

J&B - Chapter 19	Salvage & Overhaul
IFSTA 6 <sup>th</sup> - Chapter 18	Loss Control
IFSTA 7 <sup>th</sup> – Chapter 15	Overhaul, Property Conservation and Scene Preservation
ATS Online:	<b>Firefighter I</b> – EF121 Property Conservation: Salvage, EF122 Property Conservation: Overhaul

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### **Fire Cause:**

J&B - Chapter 38	Fire Cause & Determination
IFSTA 6 <sup>th</sup> - Chapter 19	Fire Origin and Cause Determination
IFSTA 7 <sup>th</sup> – Chapter 20	Fire Origin and Cause Determination
ATS Online:	<b>Firefighter II</b> – EF208 Fire Origin & Cause

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**Hazardous Materials Operations:**

J&B - Chapter 31-35	Hazardous Materials Operations
IFSTA - Chapter 24	Mitigating Haz Mat /WMD
IFSTA 7 <sup>th</sup> - Chapters 25	Action Options and Response Objectives and Chapter 26: PPE, Product Control and Decontamination
ATS Online:	<b>HM Response</b> – HR007 Terrorism & WMD Awareness, <b>HM Containment</b> – CO003 Diking, Diverting & Retaining Spills

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**Public Education**

J&B - Chapter 23 & 36	Pre Incident Planning, Fire Prevention and Education
IFSTA 6 <sup>th</sup> - Chapter 21	Fire and Life Safety Initiatives
IFSTA 7 <sup>th</sup> – Chapter 22	Community Risk Reduction (pg 973-991)
ATS Online:	<b>Firefighter II</b> – EF209 Pre-Incident & fire Safety Surveys, EF210 Fire Prevention & Public Education

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

- A roster of attendee's and time spent on practical's to be provided at testing time.
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**Building Construction:**

J&B - Chapter 7	Building Construction
IFSTA 6 <sup>th</sup> - Chapter 4	Building Construction
IFSTA 7 <sup>th</sup> – Chapter 3	Building Construction & Chapter 16: Building Materials, Structural Collapse and Effects of Fire Suppression
ATS Online:	<b>Firefighter II</b> – EF201 Building Construction

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**CPR, Infection Control, Bleeding Control & Shock Management**

This may require an outside CPR/AED Instructor

J&B - Chapters 20, 24-25	Fire Fighter Rehabilitation, Fire and Emergency Medical Care Emergency medical Care
IFSTA 6 <sup>th</sup> - Chapter 22	Emergency Medical Care for Fire Department First Responders
IFSTA 7 <sup>th</sup> – Chapter 23	First Aid Provider
ATS Online:	<b>Infection Control &amp; Prevention</b> – ID001 Blood borne Pathogens, ID002 Airborne Pathogens & Other Diseases, <b>Emergency Medical Responder</b> – ER002 Workforce Safety, ER003 Primary Patient Assessment, ER008 Bleeding, ER009 Shock, ER011 Resuscitation

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

- A roster of attendee's and time spent on practical's to be provided at testing time.
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**Unit II Written Test**, Yellow card must have completed class attendance for Unit 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.

SD Certified Firefighter Certification Card must be fully completed, signed and dated class participation for Unit I and Unit II, signed and dated performance competencies on the back of the card along with student signatures, Lead Instructor and the participants Fire Chief on the front of the SD Certified Firefighter Certification Card. After completion of the unit II test along with the completed Certification card a student may then take the SD Certified Firefighter Practical Skill Test (Third Party Evaluation) and pass to receive the Certificate and status of a South Dakota Certified Firefighter.

Students that pass the Unit I and Unit 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.

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.

The State Fire Marshal's office will use the Unit I, Unit 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. (ATS Online) Access codes are good for one year.

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

## **PERFORMANCE COMPETENCIES**

### **UNIT I**

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.

## UNIT II

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.



## SOUTH DAKOTA CERTIFIED FIREFIGHTER COURSE NFPA 1001, 2008 Edition

STUDENT NAME		DRIVERS LICENSE NUMBER	
COMPLETE MAILING ADDRESS & PHONE NUMBER		FIRE DEPARTMENT OR AGENCY	
UNIT I - CLASS ATTENDANCE		UNIT II - CLASS ATTENDANCE	
NIMS/ICS I 100-200-700*	DATE	FIRE STREAMS/ATTACK&FOAM* EF117, EF206	DATE
COMMUNICATIONS* EF119	DATE	PUBLIC EDUCATION* EF209, EF210	DATE
SAFETY * EF101, EF102	DATE	RESCUE & EXTRICATION* EF202, VX001, VX002, VX003, VX010	DATE
FIRE BEHAVIOR * EF103	DATE	SALVAGE & OVERHAUL or LOSS CONTROL* EF121, EF122	DATE
EXTINGUISHERS* EF107	DATE	FIRE CAUSE* EF208	DATE
PERSONAL PROTECTIVE EQUIPMENT* EF106	DATE	HAZMAT OPERATIONS(optional) HR007, CO003	DATE
S.C.B.A. * EF104, EF105	DATE	CPR* ER011	DATE
ROPES & KNOTS* EF108	DATE	BUILDING CONSTRUCTION EF201	DATE
FIRE CONTROL/FIRE SUPPRESSION & GROUND FIRES* EF109, EF205	DATE	INFECTION CONTROL ID001, ID002 BLEEDING CONTROL & ER003, ER008 SHOCK MANAGEMENT * ER009	DATE
FORCIBLE ENTRY* EF118	DATE	<b>(FOR FIRE MARSHAL USE ONLY)</b> UNIT I WRITTEN TEST RESULTS  TEST DATE _____ PASS / FAIL  RE-TEST DATE _____ PASS / FAIL  UNIT II WRITTEN TEST RESULTS  TEST DATE _____ PASS / FAIL  RE-TEST DATE _____ PASS / FAIL  PRACTICAL SKILLS EXAM DATE _____  FULL CERTIFICATION (YES or NO)  FIRE GROUND SUPPORT (YES or NO)  STAFF SIGNATURE:  _____ date _____	
GROUND LADDERS* EF110, EF111	DATE		
VENTILATION* EF112, EF113, EF203	DATE		
WATER SUPPLY* EF204	DATE		
FIRE DETECTION & SPRINKLER SYSTEMS* EF123	DATE		
HOSE&APPLIANCE* EF114, EF115, EF116, EF207	DATE		
HAZARDOUS MATERIAL AWARENESS* HA001, HA002	DATE		