

## FSC 105 COURSE SYLLABUS

Fall 2022/Spring 2023

VACTE, YC DE

**Dept. and Course Number:** FSC-105  
**Course Title:** Firefighter Certification Academy  
**Credit Hours:** 12 Credit hours (10 lecture, 2 lab)  
**CRN:** 18472

**Co-required Prerequisite(s):** Haz-Mat First-Responder Operations Level (FSC 104)

**Co-requisite:** 1) American Heart Association Health Care Provider CPR

**Course Description:** Firefighter Certification Academy (12 credits). IFSTA Essentials 7<sup>th</sup> edition: including fire department operations, Firefighting equipment, tools, and safety. There is an emphasis on the chemistry of fire, techniques and skills of a firefighter, and utilization of equipment and tools used in the fire service. This is for preparation for Arizona Center for Fire Service Excellence Fire Fighter I & II certification, and all the Job Performance Requirements associated with it. The class will include physically demanding work and various skills courses that will allow you to be able to function on the fire ground.

**Course Purpose:** This college-level course is designed to prepare entry –level firefighters to successfully achieve Arizona Center for Fire Service Excellence Fire Fighter I & II Certification. It will teach them to understand and manage the role and function of a firefighter as outlined in NFPA 1001-Standard for Fire Fighter Professional Qualifications. This course is hazardous by its nature, and includes high-risk functions such as the use of a Self Contained Breathing Apparatus, power tool operations, ladder operations and roof ventilations skills, vehicle extrication, and live fire fighting exercises. Students should be prepared for a mentally and physically challenging experience.

**Instructors:** Steve Darby, Retired Mesa Fire  
Cell Phone: (520) 909-3187  
E-mail: [darby151@msn.com](mailto:darby151@msn.com)

Jarrett Tarver, Sedona Fire Dist.  
Work Phone: (928) 634-7131  
Cell Phone: (928) 607-4804  
E-mail: [jtarverb@yahoo.com](mailto:jtarverb@yahoo.com)

Eric Ostler, Copper Canyon Fire Dist.  
Work Phone: (928) 634-7131  
Cell Phone: (928) 963-0224  
E-mail: [ostlereric@gmail.com](mailto:ostlereric@gmail.com)

**Course Location:** Didactic/Cognitive: Verde Valley Fire Training Center

Practical/Manipulative: Verde Valley Fire Training Center

Locations subject to change.

**Class Times:** Monday thru Thursday, 1:30 - 4:00 (extended hours may occur)

Fridays or Saturdays, 08:00-17:00 (extended hours may occur)

*Dates may be added or subject to change*

**Required Course Materials:** IFSTA Essentials 7<sup>th</sup> edition textbook, and workbook (provided)

YC Firefighter I & II Academy Handbook/Protocol (provided)

VACTE Student handbook (provided)

Structural Firefighting Personnel Protective Equipment (provided)

Self-Contained Breathing Apparatus (provided)

1"-3 ring Binder (optional)

2 Academy shirts, 1 pair PE shorts (provided)

Rope 6' length (provided)

List may be subject to change

**Suggested Materials** Lined Notebook Paper

**Learning Outcomes:**

1. Describe theory of fire behavior, phases of fire, types of fires and methods of fire control. (5,17)
2. Show the proper rope inspection procedure as well as the established standard knots and hitches used by the fire service. (8)
3. Discuss the proper uses for various equipment/tools. (2,3,6,7,8,9,10,11,12,13,14,15,16,18,22)
4. Explain the care and use of fire service ladders and perform basic ladder raises for multi-person ladders. (12)

5. Describe the standard hose rolls and carries used by the fire service. (15)
6. Explain the need for proper ventilation. (13)
7. Show proper salvage cover placement and proper salvage and overhaul techniques. (18)
8. Describe basic building construction and building features as they apply to firefighting. (4)
9. Explain the reasons for and show ability to don the self-contained breathing apparatus and complete the crawl-through course. (6,9)
10. Perform basic forcible entry through various barriers using the proper tools and procedures. (11)
11. Successfully ventilate a structure utilizing both horizontal and vertical techniques with the proper equipment. (13)
12. Explain the method and theory of fire cause determination as it applies to the firefighter to include securing the scene and legal considerations. (19)
13. Explain the components of automatic sprinkler systems and the value of the systems. (18)
14. Design an inspection program for their community. (18)
15. Perform various drags, lifts, carries, wall breaching, narrow-space manipulation and hoisting techniques directly related to firefighter safety and self-survival. (6,8,9,10). Explain the organizational model of the fire service. (1)
2. Practice the use of personnel accountability systems and of the NIMS incident command system. (2,9)

**Assessment Methods:**

In-Class Presentations

Online Quizzes

Online Tests

Workbook

Pre-Incident Inspection report

Historic Incident Essay/Presentation

Final Exam

Practical Evolution tests (State JPR's)

Live Fire Evolutions

**Grading Criteria:**

<b>Grading:</b>	<b>Workbooks</b>	<b>1813</b>
	<b>CPR Certification</b>	<b>50</b>

<b>3 CFI Online Certs.</b>	<b>150 (50 each)</b>
<b>FEMA ICS Certs</b>	<b>80 (40 each)</b>
<b>Video Notes</b>	<b>20</b>
<b>Chapter Quizzes</b>	<b>215</b>
<b>Syllabus Quiz</b>	<b>20</b>
<b>Chapter Tests</b>	<b>715</b>
<b>Final Exam</b>	<b>120</b>
<b>Fire Hx. Essay</b>	<b>100</b>
<b><u>Live Burns</u></b>	<b><u>250</u></b>
<b>TOTAL POINTS</b>	<b>3,533</b>

**Grades:**

<b>90-100%</b>	<b>=</b>	<b>A. 3179-3533 pts.</b>
<b>80-99%</b>	<b>=</b>	<b>B. 2826-3179 pts.</b>
<b>70-79%</b>	<b>=</b>	<b>C. 2473-2825 pts.</b>
<b>60-69%</b>	<b>=</b>	<b>D*. Less than 2472 pts. = No College credit</b>
<b>&lt;60%</b>	<b>=</b>	<b>F*</b>

**\*A final grade of 70% or better is required to be permitted / endorsed to take the State Firefighter I & II Certification Test.**

Your Grade will be composed of the various assessment methods as described.

**State Testing/Certification:** There will be a written exam as well as practical scenario's, in accordance with the requirements of the AZCFSE. There will be a testing fee that must be paid to the AZCFSE by Cashier's check or Money order. Final details on this will be discussed in class.

All Candidates need to go to [azfiretraining.org](http://azfiretraining.org) from the home page select "State Fire Training" and then "Forms: Program and Student" scroll down to "**Preparing for Certification Testing**" read this PDF to better inform and prepare you for the AZCFSE certification testing process and requirements.

## Chapter Quizzes:

Chapter Quizzes will be taken on YC Canvas and will include 10 multiple choice. Questions on any given chapter test may include *any* material previously covered in class, in the book, or on the schedule. You will have unlimited attempts to take quizzes with the highest score being recorded. Only attempts taken before the module deadline will be counted.

## Chapter Tests:

Chapter tests will be taken on YC Canvas and will typically include 30 multiple choice, 2 points per question. Questions on any given chapter test may include *any* material previously covered in class, in the book, or on the schedule. You will have 1 attempt to take this test. Only attempts taken before the module deadline will be counted.

## Workbook:

Your workbook chapters should be completed prior to, or during the week that chapter is first assigned in class, the class schedule located on the YC Canvas website includes all due dates. Workbook assignments turned in after the module deadline will not be counted.

- **All assignments must be turned in or taken by due date or a zero will be entered. Workbooks will be accepted 1 day late for 50% off, this is the student's responsibility to notify the Instructor and to grade their own workbook.**

## Final Exam:

Final exam is designed to prepare you for the subject matter and test formats that may be encountered in the State Firefighter I and II exam and test your knowledge.

**Attendance Policy:** Students are expected to attend and participate in all class meetings, practical's and field trips. A student who anticipates an absence due to another school-sponsored activity or compelling personal reason must make prior arrangements with the instructor if possible.

In accordance with VACTE student handbook policy, the following attendance requirements must be met or the student will be dismissed from the course:

1. Excused absences may be granted by the instructor, additional make-up assignments may be assigned, more than 7 total days of absence per semester for any reason, will result in being dropped from the class.
2. 6 absences or more will result in being placed on probation with VACTE.

3. Classes will start on time unless an unforeseen situation occurs (extreme weather conditions or major emergency incident). A tardy may be excused at Instructors discretion based on contact prior to the start of class.
4. The entire Engine company will be required to perform 5 pushups or situps for each minute a company member is late to class unexcused.

**Uniform requirements:** You will be required to wear your Academy uniform (shirt or sweatshirt and navy blue pants, sweats, or shorts), to all classroom meetings, practical assignments, off site activities, academy assigned public or school appearances. Lack of uniform will result in a minimum of 25 push-ups or sit-ups per article to be completed that day by the offenders Engine Company.

**Classroom requirements:** In addition to wearing your Academy uniform to class, you will be required to bring your textbook, workbook and rope each day. Failure to comply will result in a minimum of 25 push-ups or sit-ups each item, to be completed that day by the Engine company

### **Instructor and Institution Policies**

**Course Withdrawal:** To officially withdraw from a course, the student must complete a Yavapai College “Change of Class Enrollment Form” and submit it to the registration office. Withdrawing from a course after the published deadline for withdraw requires instructor approval and signature. When a student withdraws from a course, a “W” will appear on the student’s college record. If a student does not follow official procedures for withdrawing from a course, a failing grade may be posted on the student’s college record.

**Assignments:** Students will be responsible for all materials, regardless of attendance. All homework assignments should be completed prior to the next class in order to facilitate group discussions. If students miss class due to an *excused* absence, the student should contact the instructor to find out what materials were covered in class and to make up any assignments. All assignments and make-up work will be due by the next class meeting; unless a specific due date is assigned by the instructor.

**Academic Integrity:** Honesty in academic work is a central element in the learning environment. The presentation of another individual’s work as one’s own or the act of seeking unfair academic advantage through cheating, plagiarism or other dishonest means are violations of the College’s “Student Code of Conduct”. The definitions of plagiarism, cheating, violation of copyright and associated penalties for violations are available in the Yavapai College General Catalog.

**Student Code of Conduct:** Respect for the rights of others and for the College and its property are fundamental expectations for every student. The “Student Code of Conduct” outlines behavioral expectations, and explains the process for responding to allegations of student misconduct.

**Additional Policies:** Cell phones will be turned off or left in your vehicle. Any student seen using a phone during class will be asked to leave on the first occurrence. Second occurrence will result in being dropped from the class. If you need to have your phone on, speak with an instructor for approval.

## **Student Support Services and Resources**

**Disability Support Services:** Yavapai College is committed to providing educational support services to students with documented disabilities. Academic support services or accommodations for mobility-impaired students must be arranged through Student Support Services (Prescott Campus: 776-2369, Verde Campus: 634-6563).

**Library:** Library services are available at the Prescott and Verde campus libraries. Both libraries are members of a countywide library network, which provides access to a wide range of information and resources at libraries throughout Yavapai County. Possession of a College library card entitles students to access materials housed at member libraries. Instructors may place required course materials on reserve in the library or make assignments that require the use of library resources.

**Learning Resource Centers:** Learning Resource Centers are located at the Prescott and Verde campuses. These centers provide a variety of learning support for students including tutoring, adaptive computer and equipment for students with disabilities, computer-assisted instruction, adult basic education, and English as a Second Language classes.

**“All students need to be aware of and comply with the safety and operational protocols for COVID-19 while on Yavapai College’s campuses or centers. Safety protocols can be found at this link:**

**<https://www.yc.edu/v6/college-police/covid-19/reentry/>.**