**Fire Fighter I Academy**

 **Certificate of Achievement**

**Item 1. Program Goals and Objectives**

The program is designed to prepare students for entry-level positions in fields such as: Fire fighter, fire prevention officer, Emergency Medical Technician, Chief Officer, and Fire Officer.

Career Subject Area: Firefighting

Career Opportunities: Fire Service

Program learning outcomes

**1.** Describe basic building construction techniques, terms and features": In a short essay describe how fire affects the four basic building materials in use today.

Assessment: Projects, quizzes, tests, critiques

**2.** Objective - "Examine the basics of chemistry and physics of fire": In an essay define and provide an example of "stratification" as it applies to structural firefighting.

Assessment: Projects, quizzes, tests, critiques

**3.** Objective - "Demonstrate advancing fire hose lines, both charged and uncharged": Given an uncharged hose line, and using identified techniques and safety guidelines, the fire crew shall demonstrate the proper procedure to advance an uncharged hose line over a ladder.

Assessment: Projects, quizzes, tests, critiques

4. State the role and responsibilities of the EMT 1.
Assessment: Projects, quizzes, tests, critiques

5. List various methods used to manage wounds and control bleeding and shock..

Assessment: Projects, quizzes, tests, critiques

6. Identify basic knowledge of cardiac and respiratory emergencies and demonstrate ability to provide emergency care.
Assessment: Projects, quizzes, tests, critiques

**Item 2. Catalog Description**

The program is designed to prepare students with the skills and knowledge needed for the entry level fire fighter, career or volunteer, to perform their duties safely, effectively, and competently. The curriculum is based on the 2013 edition of NFPA 1001 Standard for Fire Fighter Professional Qualifications, the 2012 edition of NFPA 1051 Standard for Wildland Fire Fighter Professional Qualifications and the 2008 edition of NFPA 472 Standard for Competence of Responders to Hazardous Materials/Weapons of Mass Destruction Incidents. The curriculum includes: fire department communications, fire ground operations, rescue operations, preparedness and maintenance, wildland suppression activities, and hazardous materials/WMD.

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Upon completion of the following courses with at least a “C” grade in each course, a student will be awarded a Certificate of Achievement in the Firefighter I Academy.

Total Units: 23

**Item 3. Program Requirements**

|  |  |
| --- | --- |
| FIRE B64 Firefighter I Academy or | 15.5 units - required |
|  |  |
| FIRE B72h Emergency Medical Technician | 7.5 units - required |
|  |  |
|  |  |
|  |  |
|  | 23 units total |

The courses can be taken out of order. If students take these courses in the following sequence, they can complete the program in one year (two semesters):

1. Fire B72h is taken in fall of year 1.

 (Fire B72h with a “C” or higher grade.)

2. Fire B64 is taken in spring of year 1.

 (Fire B64 with a “C” or higher grade.)

Total Units: 23

This Career Technical Education certificate was developed with advice and consultation of the Fire Technology Advisory committee.

**Item 4. Master Planning**

There is currently no firefighter I certificate at Bakersfield College. The program is designed to prepare students in a timely manner for entry-level positions in the fire service fields.

There are no similar fire fighter I certificate programs offered in the Bakersfield area.

The certificate ties directly to the Bakersfield College Educational Master Plan 2011-2014:

“Mission - Bakersfield College is committed to providing excellent learning opportunities in basic skills, Career/Technical Education, and transfer courses for our community so that our students can thrive in a rapidly changing world.” (page 8, Bakersfield College Educational Master Plan, 2011-2014)

**Kern County Employment by Fire Fighter**

**The certification they receive will make them marketable for anywhere in the state, not just kern county.**

 Source: Labor Market Information, California and Kern County Projections by Industry 2012-2022. Prepared Oct. 29, 2014; analysis by [file:///C:/Documents%20and%20Settings/tcapehar.BC/Local%20Settings/Temporary%20Internet%20Files/OLK72/Occupation%20Profile%20California%20LaborMarketInfo.htm](file:///C%3A/Documents%20and%20Settings/tcapehar.BC/Local%20Settings/Temporary%20Internet%20Files/OLK72/Occupation%20Profile%20California%20LaborMarketInfo.htm) and Tim Capehart, (page 17, Bakersfield College Educational Master Plan, 2011-2014)

Recipients of this certificate will work in positions needed in California, Kern County and Bakersfield City in the “Fire Service Field” area, as seen in the chart below, but could take the certification state wide.

Fire Fighters
Estimated Employment and Projected Growth

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Geographic Area(Estimated Year-GeographicProjected/Area/ Year** | **EstimatedEmployment** | **ProjectedEmployment** | **NumericChange** | **PercentChange** | **Additional OpeningsDue to NetReplacements** |
| California 2012/2022 | 28,700 | 30,500830 | 1,800 | 6.3 | 7,800 |
| Kern County/Bakersfield City2012/2015 | 830 | 830 | 50 | 0 | (50 total) 30 for county, and 20 for city. For 2015 only.  |
|  |  |  |  |  |  |

**Item 5. Enrollment and Completer Projections**

|  |  |  |  |
| --- | --- | --- | --- |
| **Spring 2018**B64 2 sectionsB72h 2 sectionEnrollment students 90Retention students 80Success students 75 | **Fall 2017**B64 2 sectionsB72h 2 sectionEnrollment students 85Retention students 75Success students 70 | **Spring 2016**B64 2 sectionsB72h 2 sectionEnrollment students 80Retention students 70Success students 65 | **Fall 2015**B64 2 sectionsB72h 2 sectionEnrollment students 75Retention students 65Success students 60 |

|  |  |
| --- | --- |
|  |  |
|   |   | **2013/2014** | **2012/2013** |
| Bakersfield College Fire Technology courses  | FIRE B64FIRE B72h | Annual # Sections  | Annual Enrollment Total  | Annual # Sections  | Annual Enrollment Total  |
|   |   |  4 |  100 |  4 |  99 |

**Labor market information**

*Labor Market Information & Analysis (CTE only) – State of California Employment Development Department*

[file:///C:/Documents%20and%20Settings/tcapehar.BC/Local%20Settings/Temporary%20Internet%20Files/OLK72/Occupation%20Profile%20California%20LaborMarketInfo.htm](file:///C%3A/Documents%20and%20Settings/tcapehar.BC/Local%20Settings/Temporary%20Internet%20Files/OLK72/Occupation%20Profile%20California%20LaborMarketInfo.htm)

Fire Fighters, California/Kern County, 2012 – 2022/2015

Estimated employment: 28,700/830

Projected: 30,500/830

Employment change: #1,800/0

6.3% increase/0

Average annual openings: 7,800/50

**Item 6. Place of Program in Curriculum/Similar Programs**

*Related programs offered by the college*

There are no similar programs in the greater Bakersfield area.

**Item 7. Similar Programs at Other Colleges in Service Area**

There are no similar programs in the greater Bakersfield area.