

**Executive Summary**

(After completing the questions on the next few pages, please replace this area with a written executive summary of the questions that follow, including your data analysis, findings, action plan, and improvements you have already made. This will be the top sheet of your report. This summary should be at least a paragraph, and can definitely be longer if desired.)

**Faculty Included in the Preparation and Sharing of this Report:**

(please replace this area with the names of all faculty that helped to prepare and provide input on this report. This includes faculty who were parts of draft discussions and conversations. Ideally, it is all faculty representing the core disciplines making up the degree or certificate.)

# FIRE SCIENCE

## Program Learning Outcomes Assessment

Fall 2014

Please provide a brief and cogent narrative in response to each of the following questions.

- 1) Provide a quantitative analysis for each PLO your CLOs inform. Provide the total number of students who passed/total number of students assessed in each PLO column *and* the corresponding PLO passing rate as an aggregated percentage.

<b>AWARD (and corresponding PLO)</b>	<b>Students Passed/Assessed</b>	<b>TOTAL RATE</b>
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### Skills Recognition: Fire Academy

- |   |     |     |
|---|-----|-----|
| 1. <i>Demonstrate compliance with state Fire Training Requirements for Firefighter I.</i> | N/A | N/A |
| 2. <i>Demonstrate compliance with National Fire Protection Association Standards.</i>     | N/A | N/A |

### A.S. Degree: Fire Science

- |   |     |     |
|---|-----|-----|
| 1. <i>Demonstrate compliance with all laws, regulations, codes, and standards that influence fire department operation.</i>   | N/A | N/A |
| 2. <i>Demonstrate compliance with California State Fire Training Standards for Firefighter I.</i>   | N/A | N/A |
| 3. <i>Explain the flow requirements for fire apparatus, diagraming a pump and plumbing schematic.</i>   | N/A | N/A |
| 4. <i>Demonstrate the ability to respond safely and effectively to fire situations by explaining the requirements needed to respond to emergencies in private, city, state, and federal locations and describing the rank structure and job requirements for all positions.</i> | N/A | N/A |
| 5. <i>Explain minimum qualifications and entry-level skills for fire fighter hiring, describing the following elements: application process, written exam process, physical agility exam process, interview process and chief's interview process.</i>                          | N/A | N/A |
| 6. <i>Describe common types of building construction as well as conditions associated with structural collapse and firefighter safety.</i>  | N/A | N/A |

### Certificate of Achievement: Fire Science

- |   |     |     |
|---|-----|-----|
| 1. <i>Demonstrate compliance with all laws, regulations, codes, and standards that influence fire department operation.</i>   | N/A | N/A |
| 2. <i>Demonstrate compliance with California State Fire Training Standards for Firefighter I.</i>   | N/A | N/A |
| 3. <i>Explain the flow requirements for fire apparatus, diagraming a pump and plumbing schematic.</i>   | N/A | N/A |
| 4. <i>Demonstrate the ability to respond safely and effectively to fire situations by explaining the requirements needed to respond to emergencies in private, city, state, and federal locations and describing the rank structure and job requirements for all positions.</i> | N/A | N/A |
| 5. <i>Explain minimum qualifications and entry-level skills for fire fighter hiring, describing the following elements: application process, written exam process, physical agility exam process, interview process and chief's interview process.</i>                          | N/A | N/A |
| 6. <i>Describe common types of building construction as well as conditions associated with structural collapse and firefighter safety.</i>  | N/A | N/A |

- 2) Reflect on, consider and analyze the data you have. **What does your CLO data tell you about how your students are achieving PLOs?** *Be detailed, descriptive and analytical* in this qualitative assessment of each PLO in relation to your CLO data. **Are your results satisfactory?**

- 3) Your department and the college should be making improvements based on student learning outcomes assessment, and we need to continue to document and share the improvements and progress you have already made. Did you make any changes in your CLO or PLO statements or analysis during the last cycle or recently? Did you receive funding for resources requests that were aimed to improve assessment results? Did you make any improvements in the areas of teaching and instruction processes, your courses, or your program? *Please explain your accomplishments and provide details about your efforts.*

- 4) **Action Plan.** Based on the assessments and analysis you have provided, please consider what changes or improvements you would like to make, which might include updating your CLO statements, modifying course outlines, rethinking instruction efforts, using different assessment instruments, asking for additional resources to improve assessment results, etc. ***Based on the analysis, provide an action plan for improvement that draws on your assessment results and efforts.***