**LBCC**  
**Instructional Program SLOs: Means of Assessment Template**

**Program Name:** Fire Science  
**Program Mission:** Prepare students for careers in the fire service and enhance skills for those who are currently employed in that area.  
**Contact:** Please type the name of one point of contact for this document.  
**Participants:** Please type the name(s) of all contributors to this document.  
**Date:**

**Instructions:** To begin assessment of student learning outcomes please complete Step 1 below.

**STEP 1**

<table>
<thead>
<tr>
<th>Intended Program Outcome</th>
<th>Means of Assessment</th>
</tr>
</thead>
</table>
| **SLO #1:** American Fire Service: Explore the history, development, structure, and functions of the American fire service. | **Assessment Task**<br>What: 10 multiple choice questions based on fire course lecture/textbook presentations.  
**How:** Locally developed final examination given to 2 fire course sections.  
**Who:** Instructor of record will collect the data and full-time faculty will analyze the results.  
**When:** Fall 2010.  
**Where:** LAC and PCC  
**Expected Achievement:** 70% of students.  
**Success Level:** 70% of students will achieve an average or better score. An average or better score is defined as receiving 70% or higher on 10 multiple choice questions.  
**Students Included:** Students enrolled in 2 sections of the course. |
| **SLO #2:** Theory/Principle Applications: Apply prevention/protection/fire-fighting theories, principles, and concepts to address real-life situations in the field. | **Assessment Task**<br>What: Multiple choice test based on the course’s lecture/textbook presentations.  
**How:** Locally developed final examination given to 1 course section of the course.  
**Who:** Instructor of record will collect the data and full-time faculty will analyze the results.  
**When:** Fall 2010.  
**Where:** LAC and PCC  
**Expected Achievement:** 70% of students.  
**Success Level:** 70% of all students will achieve an average or better score. An average or better score is defined as receiving 70% or higher on 10 multiple choice questions.  
**Students Included:** Students enrolled in 1 section of the course. |

For Outcomes Assessment Plan directions go to [http://outcomes.lbcc.edu/Assessment.cfm](http://outcomes.lbcc.edu/Assessment.cfm)  
ASLO Subcommittee; October 6, 2009; Revised November 6, 2013
**Instructional Program SLOs: Results of Assessment Template**

**Program Name:** Fire Science.

**Program Mission:** Prepare students for careers in the fire service and enhance skills for those who are currently employed in that area.

**Contact:** Please type the name of one point of contact for this document.

**Participants:** Please type the name(s) of all contributors to this document.

**Date:**

**Instructions:** After you have gathered and analyzed assessment results and have taken actions based on what you’ve learned, please complete Step 2 below.

### STEP 2

<table>
<thead>
<tr>
<th>SLO #1: American Fire Service: Explore the history, development, structure, and functions of the American fire service.</th>
<th>Results of Assessment</th>
<th>Actions Taken</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Results:</strong> 71% (50 out of 70 students in 2 classes) obtained a score of 70% or better out of 10 multiple choice questions.</td>
<td></td>
<td>It was decided by all faculty that these questions are measuring this SLO and are not misleading or unclear. However, faculty are going to further emphasize this SLO is their course lectures and activities. Furthermore, the faculty speculate that the sample size may be too small. Therefore, we have decided to include all students in all sections of this course in the future.</td>
</tr>
<tr>
<td><strong>Key Findings:</strong> While the result did meet our minimum success level, it only did so by 2 percentage points.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Conclusions:</strong> While it appeared that students did have adequate exposure to this SLO in both courses, this exposure was not reflected at a high level on the exam. Faculty have chosen to examine each test question to determine which questions the most students missed and why.</td>
<td></td>
<td>Re-evaluation Date: Fall 2011.</td>
</tr>
</tbody>
</table>
| **Result Type:** (click one box below)  
☑ Criteria Met  
☐ Criteria Not Met  
☐ Inconclusive |  |  |

<table>
<thead>
<tr>
<th>SLO #2: Theory/Principle Applications: Apply prevention/protection/fire-fighting theories, principles, and concepts to address real-life situations in the field.</th>
<th>Results of Assessment</th>
<th>Actions Taken</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Results:</strong> 5% of students (2 out of 38 students) obtained a score of 70% or better on the 10 multiple choice questions.</td>
<td></td>
<td>Exam questions were examined and it was determined that the questions did not pertain to the SLO they were purportedly measuring. The exam questions have been rewritten to measure this SLO. Furthermore, course lectures did not appear to focus on this SLO and more relevant information pertaining to the SLO needs to be incorporated/stressed in the classroom. Finally, in the future, all course sections will be assessed. The sample size was determined to be too small and in future evaluations needs to be larger.</td>
</tr>
<tr>
<td><strong>Key Findings:</strong> This result was not consistent with the instructor’s expectations and was dramatically lower than the success level that was set.</td>
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<td></td>
</tr>
<tr>
<td><strong>Conclusions:</strong> The 10 exam questions need to be assessed to determine why students scored so low. Course lectures and activities should be reviewed.</td>
<td></td>
<td>Re-evaluation Date: Fall 2011.</td>
</tr>
</tbody>
</table>
| **Result Type:** (click one box below)  
☐ Criteria Met  
☑ Criteria Not Met  
☐ Inconclusive |  |  |