

Students Learning Outcome and Assessment Plan

Course title: Fire Behavior and Combustion

Department/program: Fire Technology

Date: August 30, 2008

Participating Faculty: CFTDA

Identified Student Learning Outcomes:

Upon successful completion of this course, the student will be able to:

1. Define basic terms and concepts related to fire behavior and chemistry.
2. Identify states of matter and describe chemical processes associated with combustion
3. Analyze physical conditions which determine states of matter and influence fire behavior.
4. Describe fire suppression agents and their properties.
5. Compare and contrast methods and techniques of fire extinguishment.

Types of Assessment to be used:

SLO #1	Assessment Instrument(s)	Assessment Example:	Assessment Criteria
Define basic terms and concepts related to fire behavior and chemistry.	Written quizzes, matching tests, written lists for the purposes of identifying terms and concepts of fire behavior and chemistry.	Select a quiz or exam within the instructional period that focuses on terms and concepts of fire behavior. Measure the results against assessment criteria.	Success is achieved if 90% of students achieve the student learning outcome with a score of 80% or higher during the assigned "assessment" activity. Learning outcome is not achieved if these criteria are not met.

SLO #2	Assessment Instrument(s)	Assessment Example:	Assessment Criteria
<p>Identify states of matter and describe chemical processes associated with combustion</p>	<p>Quizzes, exams and written assignments that demonstrate the students' ability to identify and describe chemical processes and combustion.</p>	<p>Select a quiz or writing assignment to assess if SLO has been met. Compare the results to assessment criteria to determine if the course was successful in meeting the SLO.</p>	<p>Success is achieved if 90% of students achieve the student learning outcome with a score of 80% or higher during the assigned "assessment" activity. Learning outcome is not achieved if these criteria are not met.</p>

SLO #3	Assessment Instrument(s)	Assessment Example:	Assessment Criteria
Analyze physical conditions which determine states of matter and influence fire behavior.	Quizzes, exams and written assignments that demonstrate the students' ability to determine states of matter and the physical influences that change states of matter.	Select a quiz or writing assignment to assess if SLO has been met. Compare the results to assessment criteria to determine if the course was successful in meeting the SLO.	Success is achieved if 90% of students achieve the student learning outcome with a score of 80% or higher during the assigned "assessment" activity. Learning outcome is not achieved if these criteria are not met.
SLO #4	Assessment Instrument(s)	Assessment Example:	Assessment Criteria
Describe fire suppression agents and their properties.	Quizzes, exams and written assignments that demonstrate the students' ability to describe fire suppression agents and their properties.	Select a quiz or writing assignment to assess if SLO has been met. Compare the results to assessment criteria to determine if the course was successful in meeting the SLO.	Success is achieved if 90% of students achieve the student learning outcome with a score of 80% or higher during the assigned "assessment" activity. Learning outcome is not achieved if these criteria are not met.
SLO #5	Assessment Instrument(s)	Assessment Example:	Assessment Criteria
Compare and contrast methods and techniques of fire extinguishment.	Quizzes, exams and written assignments that demonstrate the students' ability to compare and contrast methods and techniques of fire extinguishment.	Select a quiz or writing assignment to assess if SLO has been met. Compare the results to assessment criteria to determine if the course was successful in meeting the SLO.	Success is achieved if 90% of students achieve the student learning outcome with a score of 80% or higher during the assigned "assessment" activity. Learning outcome is not achieved if these criteria are not met.