UNIT REPORT

Engineering Technology BS -
Assessment Plan Summary

Engineering Technology BS

Develop Knowledge And Safety Skills

Goal Description:

Students will develop knowledge and safety skills relevant to EngineeringTechnology.

RELATED ITEMS/ELEMENTS

RELATED ITEM LEVEL 1

Development Of Students' Knowledge And Skills

Learning Objective Description:

Students will demonstrate competency in key areas of engineering technology by passing the OSHA Safety Course and receiving OSHA Certification. The OSHA Certification serves as a capstone requirement. The test is administered by an external agency.

RELATED ITEM LEVEL 2

ETSM 4382- OSHA Certification

Indicator Description:

All students enrolled in the program must complete ETSM 4382 and receive their OSHA Certification in Safety. The course addresses key concepts and skills relevant to safety in the field of Engineering Technology. Each semester, all students are required to take the OSHA Certification examination as the capstone activity for the course. The certification exam is divided into multiple sections. An overall grade of 70% or higher is passing.

Criterion Description:

There is a consensus that at least 80% of the students taking the OSHA examination will make a 90 or higher on the exam, while, 100% will be certified by making a score of 70 or higher. A score of 90 or higher indicates comprehension of key concepts and elements of safety management and managing risk.

Findings Description:

Of the 25 students enrolled in the course (Spring 2017), 48% of students scored a 90% or greater on the standardized 107.5-OSHA 10hour course, while 96% scored an 80% or greater. Of the remaining 1 students scored just below the 80% level, but passed with a 78%. All of the students passed, yet not at the level expected by the ETEC faculty.

RELATED ITEM LEVEL 3

Development of Students' knowledge and Skills

Action Description:

Of the 25 students enrolled in the course, 48% of students scored a 90% or greater on the standardized 107.5-OSHA 10hour course, while 96% scored an 80% or greater. Of the remaining 1 students scored just below the 80% level, but passed with a 78%. All of the students passed, yet not at the level expected by the ETEC faculty. We will continue our efforts to meet and exceed the criterion description.

Develop Professional Skills

Goal Description:

Students will learn the skills necessary to compete in the professional marketplace.

RELATED ITEMS/ELEMENTS

RELATED ITEM LEVEL 1

Demonstrate Professional Skills

Learning Objective Description:

Students completing the BS in Engineering Technology will gain experiental learning and field experience in the industry through an internship necessary to successfully gain employment.

RELATED ITEM LEVEL 2

ETEC 4391 Internship Evaluation

Indicator Description:

All students enrolled in the program must complete ETEC 4391 in their final year of enrollment. ETEC 4391 addresses key concepts and skills, as well as practical demonstrations of competency relevant to the field of engineering technology. Each semester interns will

be evaluated by their internship supervisor and by their faculty supervisor on a faculty-developed rating scale.

Criterion Description:

There is a general consensus among ETEC Faculty members that at least 85% of the students enrolled in ETEC 4391 demonstrate an above average (4.0 or higher) level of performance on the rating scales.

Findings Description:

There were 5student pursuing the BS in Engineering Technology enrolled in ETEC 4391 in Spring 2017, the semester of assessment. The students completed the assigned weekly reports with a score of 5 on a 5point scale.

RELATED ITEM LEVEL 3

Development of Professional Skill

Action Description:

There were 5 student pursuing the BS in Engineering Technology enrolled in ETEC 4391 during this assessment circle, and earned a score of 5 on a 5 points scale. We will continue monitoring student performance on an annual basis and be diligent in continuous assessment of this learning objective to ensure that our students are prepared to meet the demands of a dynamic marketplace. We consider the current criterion description of 85% of Construction Management students enrolled in the course scoring a 4 or higher appropriate, and will continue the effort to meet and exceed it.

Update to Previous Cycle's Plan for Continuous Improvement

Previous Cycle's Plan For Continuous Improvement (Do Not Modify):

With new ETEC faculty being hired, Survey course was offered in Fall 2016.

Update of Progress to the Previous Cycle's PCI:

The Engineering Technology faculty started the process of curriculum mapping as well as development of flow chart and course offering rotation plan for the SHSU Engineering Technology program. One major topic is to develop a capstone design project course and incorporate it into the existing curriculum. To achieve this goal, name, prerequisites, course description, and content of all the courses in the current curriculum will be visited and adjustment is necessary to accommodate the additional course hours of the capstone design project course. We plan to solicit input from as many source as possible, particularly industry partner and alumni.

We will use the same internship and OSHA-Certification courses to assess the Engineering Technology program in the coming 2017-2018 assessment cycle. Given the fact that the Survey course has been offered, we plan to discuss the feasibility of using it for assessment purpose.

Monitoring market place, skills, and content knowledge

Closing Summary:

We must be diligent in continuous assessment of the learning objective, "Development of Professional Skills", to ensure that our students are well prepared for the dynamic marketplace. We will continue our efforts to meet and exceed the standard description of at least 80% of the students taking the OSHA examination will make a 90 or higher on the exam, while, 100% will be certified by making a score of 70 or higher.

Of the 25 students enrolled in the OSHA Certification course, 48% of students scored a 90% or greater on the standardized 107.5-OSHA 10hour course, while 96% scored an 80% or greater. Of the remaining 1 students scored just below the 80% level, but passed with a 78%. All of the students passed, yet not at the level expected by the ETEC faculty. Of the five students enrolled in the Internship Evaluation course, all earned a score of 5 out of 5 points scale. We will continue our efforts to meet and exceed the criterion description.