



**School/College: College of Engineering, Architecture and Technology**  
**Program: Engineering and Technology Management**  
**Degree Level: GRADUATE CERTIFICATE**  
*Program Assessment Plan*

**Date Plan was Approved by Department: 3/8/2018**

Please note: Assessment plans must be reviewed/updated and reapproved every five (5) years.

**Name of Person Submitting Plan: Tim Hardin**

**A. Program Information:**

**Assessment Coordinator's Name: Tim Hardin**

**Assessment Coordinator's Email Address: tim.hardin@okstate.edu**

**B. Program Mission Statement**

**In the box below, provide the mission statement for the program.**

*The mission statement, educational objectives, and goals for program should guide the assessment process. The mission statement should align with department, college, and institutional mission statements.*

The OSU Engineering and Technology Management program exists to provide accessible, career-enhancing educational opportunities to practicing engineers, scientists and technical managers.

**C. University Assessment Funds**

**Were university assessment funds used by the department/program for assessment activities?** Yes No

*If university assessment funds were used by the department or program, describe how university assessment funds were used and the contribution the funds had on the assessment process. Funding requests for the next academic year have a separate process and should not be included here*

**D. Student Learning Outcomes**

On the pages that follow, list the Student Learning Outcomes associated with the program identified in this assessment form.

One of the hallmarks of the CETM program is its flexibility. Therefore, students don't all take the same coursework. Opportunities for students to learn each of the outcomes are spread throughout the CETM curriculum, however, all students take one required course: ETM 5111 (Introduction), Emphasis is placed on all 3 learning outcomes in ETM 5111.

Upon graduation, each student should be able to:

1. Demonstrate the ability to view the organization systemically
2. Critically analyze a management problem
3. Identify strategic issues



**D1) Student Learning Outcome #1:** Each student shall be able to demonstrate the ability to view the organization systemically.

**Identify opportunities for students to learn this outcome during the academic program:**

*For example, include a curriculum map that lists the courses or other learning experiences in which the student learning outcome is taught. Another example is a written narrative that describes how the learning outcome is integrated into the program.*

This concept is widely discussed and reinforced throughout the curriculum in ETM 5111, and elective courses including, , ETM 5143, ETM 5153, ETM 5283 and others. However, since our students have wide flexibility in their course paths, the single point in the curriculum where all students have exposure to this concept is in ETM 5111.

**How will students be selected to participate in the assessment of this outcome?**

**All students completing ETM 5111**

**Assessment Methods**

*Identify the method(s) used to assess this learning outcome. Check all that apply.*

- |  |   |   |
|--|---|---|
| <input type="checkbox"/> Survey  | <input type="checkbox"/> Satisfaction Survey  | <input type="checkbox"/> Internship                               |
| <input type="checkbox"/> Rating of skills (e.g., rubrics)                      | <input type="checkbox"/> Benchmarking   | <input type="checkbox"/> Interviews                               |
| <input checked="" type="checkbox"/> Analysis of written artifacts              | <input type="checkbox"/> Measuring effectiveness relative to professional standards | <input type="checkbox"/> Performance or jury                      |
| <input type="checkbox"/> Comprehensive, certification, or professional exam(s) | <input type="checkbox"/> Review of thesis/dissertation/ creative component          | <input type="checkbox"/> Visual collection (photos, videos, etc.) |
| <input type="checkbox"/> Oral presentation                                     | <input type="checkbox"/> Capstone project   | <input type="checkbox"/> Review of student research               |
| <input type="checkbox"/> Course project  |   | <input type="checkbox"/> Other (please specify):                  |
|  |   | <a href="#">Click here to specify.</a>                            |

**Describe the how the assessment method will be implemented, administered, and/or conducted.**

A written assignment in which each student is to identify the core competencies of his/her employer and relate those competencies to the overall mission of the organization.

**Does your department/program faculty have a goal set for this learning outcome?**  Yes  No

*For example, "80% of students included in the assessment will receive a 4 on the rubric" or "80% of students included in the assessment will achieve a passing score on the certification exam." If yes, please describe the goal below.*

**80% of students will score 80 or higher on this assignment.**

**Timeline for Planned Assessment**

*Indicate the timeline for the assessment of this learning outcome. While outcomes assessment must be conducted every year, not all student learning outcomes for a given program must be assessed every year. If the assessment of a particular learning outcome occurs on cycle or rotation, please describe and provide the rationale for the cycle/rotation below.*

- Each Semester  Yearly  Every other year
- Other (please specify): If the assessment of Learning Outcome 1 occurs on a cycle or rotation, click here to describe and provide the rationale.

**D2) Student Learning Outcome #2:** Each student will be able to critically analyze a management problem.

**Identify opportunities for students to learn this outcome during the academic program:**

*For example, include a curriculum map that lists the courses or other learning experiences in which the student learning outcome is taught. Another example is a written narrative that describes how the learning outcome is integrated into the program.*

Like student learning outcome #1, this concept is present and/or reinforced in many courses, including ETM 5111, ETM 5143, ETM 5153, ETM 5283 and other electives. For the purposes of assessment, all students take ETM 5111, which shall be selected for assessing this learning outcome.

**How will students be selected to participate in the assessment of this outcome?**

**All students completing ETM 5111**

**Assessment Methods**

*Identify the method(s) used to assess this learning outcome. Check all that apply.*

- |  |   |   |
|--|---|---|
| <input type="checkbox"/> Survey  | <input type="checkbox"/> Satisfaction Survey  | <input type="checkbox"/> Internship                               |
| <input type="checkbox"/> Rating of skills (e.g., rubrics)                      | <input type="checkbox"/> Benchmarking   | <input type="checkbox"/> Interviews                               |
| <input checked="" type="checkbox"/> Analysis of written artifacts              | <input type="checkbox"/> Measuring effectiveness relative to professional standards | <input type="checkbox"/> Performance or jury                      |
| <input type="checkbox"/> Comprehensive, certification, or professional exam(s) | <input type="checkbox"/> Review of thesis/dissertation/ creative component          | <input type="checkbox"/> Visual collection (photos, videos, etc.) |
| <input type="checkbox"/> Oral presentation                                     | <input type="checkbox"/> Capstone project   | <input type="checkbox"/> Review of student research               |
| <input type="checkbox"/> Course project  |   | <input type="checkbox"/> Other (please specify):                  |
- [Click here to specify.](#)

**Describe the how the assessment method will be implemented, administered, and/or conducted.**

A written assignment which presents the background on a case study and requires students to prepare and executive summary of the case.

**Does your department/program faculty have a goal set for this learning outcome?**  Yes  No

*For example, "80% of students included in the assessment will receive a 4 on the rubric" or "80% of students included in the assessment will achieve a passing score on the certification exam." If yes, please describe the goal below.*

**80% of all students will score 80 or higher on this assignment.**

**Timeline for Planned Assessment**

*Indicate the timeline for the assessment of this learning outcome. While outcomes assessment must be conducted every year, not all student learning outcomes for a given program must be assessed every year. If the assessment of a particular learning outcome occurs on cycle or rotation, please describe and provide the rationale for the cycle/rotation below.*

- Each Semester  Yearly  Every other year
- Other (please specify): If the assessment of Learning Outcome 2 occurs on a cycle or rotation, click here to describe and provide the rationale.