OSU-Okmulgee

Academic Programs Form C

ASSESSMENT REPORT

For Core (First Six) and Program of Study Objectives (Last 15)

Engineering Technologies	Manufacturing Technology (ETDM)
(Unit)	**(Program Emphasis or Specialization)**
Fall 2003 - Summer 2004	**October 29, 2004**
(Assessment Period Covered)	**(Date Submitted)**

Intended Educational (Student) Objective #1:

NOTE: There should be one form C for each intended outcome listed on form B. Intended outcome should be restated in the box immediately below with intended outcome number entered in the small blank spaces.

Objective 1: Effectively communicate electronically, verbally and in writing.

A. Summative Means of Assessment for Objective Identified Above:

1 a. Means of Program Assessment & Criteria for Success: 80% of the students will complete a technical report and give a presentation for a Capstone project at a 74% level.

1 a. Description of Data Collection & Assessment Results: **(complete this section in spring after assessment results are in)**
Cohort has not reached Capstone

1 a. Use of Results to Improve Instructional Program: **(complete in spring based on findings)**
N/A

B. Formative Means of Assessment for Objective Identified Above:

1 b. Means of Program Assessment & Criteria for Success: 80% of the students will complete a Small Group Communication project at a 74% level.

1 b. Description of Data Collection & Assessment Results:

Data not collected

1 b. Use of Results to Improve Instructional Program:
N/A

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Intended Educational (Student) Objective #2:

NOTE: There should be one form C for each intended outcome listed on form B. Intended outcome should be restated in the box immediately below with intended outcome number entered in the small blank spaces.

Objective 2: Demonstrate logical, systematic problem-solving techniques.

A. Summative Means of Assessment for Objective Identified Above:

2 a. Means of Program Assessment & Criteria for Success: 80% of the students will design and execute a team based applied research project in Capstone at a 74% level.

2 a. Description of Data Collection & Assessment Results: **(complete this section in spring after assessment results are in)**
Cohort has not reached Capstone

2 a. Use of Results to Improve Instructional Program: **(complete in spring based on findings)**
N/A

B. Formative Means of Assessment for Objective Identified Above:

2 b. Means of Program Assessment & Criteria for Success: 80% of the students will complete a Robo Lab competition or equivalent in First Semester at a 74% level.

2 b. Description of Data Collection & Assessment Results:
Data not collected

2 b. Use of Results to Improve Instructional Program:
N/A

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Intended Educational (Student) Objective #3:

NOTE: There should be one form C for each intended outcome listed on form B. Intended outcome should be restated in the box immediately below with intended outcome number entered in the small blank spaces.

Objective 3: Analyze and solve problems using basic mathematical computations.

A. Summative Means of Assessment for Objective Identified Above:

3 a. Means of Program Assessment & Criteria for Success: 80% of the students will design and execute a team based applied research project in Capstone at a 74% level.

3 a. Description of Data Collection & Assessment Results: **(complete this section in spring after assessment results are in)**
Cohort has not reached Capstone

3 a. Use of Results to Improve Instructional Program: **(complete in spring based on findings)**
N/A

B. Formative Means of Assessment for Objective Identified Above:

3 b. Means of Program Assessment & Criteria for Success: 80% of the students will complete a Robo Lab competition or equivalent in First Semester at a 74% level.

3 b. Description of Data Collection & Assessment Results:
Data not collected

3 b. Use of Results to Improve Instructional Program:
N/A

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Intended Educational (Student) Objective #4:

NOTE: There should be one form C for each intended outcome listed on form B. Intended outcome should be restated in the box immediately below with intended outcome number entered in the small blank spaces.

Objective 4: Develop and display a sense of personal, social and professional work ethics.

A. Summative Means of Assessment for Objective Identified Above:

4 a. Means of Program Assessment & Criteria for Success: A @ S feedback is required.

4 a. Description of Data Collection & Assessment Results: **(complete this section in spring after assessment results are in)**

4 a. Use of Results to Improve Instructional Program: **(complete in spring based on findings)**

B. Formative Means of Assessment for Objective Identified Above:

4 b. Means of Program Assessment & Criteria for Success:

4 b. Description of Data Collection & Assessment Results:

4 b. Use of Results to Improve Instructional Program:

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Intended Educational (Student) Objective #5:

NOTE: There should be one form C for each intended outcome listed on form B. Intended outcome should be restated in the box immediately below with intended outcome number entered in the small blank spaces.

Objective 5: Explain the cultural heritage and primary elements of the history and government of the U.S. and its people, especially as it impacts one's industry or field of study.

A. Summative Means of Assessment for Objective Identified Above:

5 a. Means of Program Assessment & Criteria for Success: A @ S feedback is required.

5 a. Description of Data Collection & Assessment Results: **(complete this section in spring after assessment results are in)**

5 a. Use of Results to Improve Instructional Program: **(complete in spring based on findings)**

B. Formative Means of Assessment for Objective Identified Above:

5 b. Means of Program Assessment & Criteria for Success:

5 b. Description of Data Collection & Assessment Results:

5 b. Use of Results to Improve Instructional Program:

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Intended Educational (Student) Objective #6:

NOTE: There should be one form C for each intended outcome listed on form B. Intended outcome should be restated in the box immediately below with intended outcome number entered in the small blank spaces.

Objective 6: Access and use technology appropriate to one's industry or field of study.

A. Summative Means of Assessment for Objective Identified Above:

6 a. Means of Program Assessment & Criteria for Success:

6 a. Description of Data Collection & Assessment Results: **(complete this section in spring after assessment results are in)**

6 a. Use of Results to Improve Instructional Program: **(complete in spring based on findings)**

B. Formative Means of Assessment for Objective Identified Above:

6 b. Means of Program Assessment & Criteria for Success

6 b. Description of Data Collection & Assessment Results:

6 b. Use of Results to Improve Instructional Program:

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Intended Educational (Student) Objective #7:

NOTE: There should be one form C for each intended outcome listed on form B. Intended outcome should be restated in the box immediately below with intended outcome number entered in the small blank spaces.

Objective 7: Perform precision measurements, interpret mechanical drawings and demonstrate safe operation of conventional and CNC Machines.

A. Summative Means of Assessment for Objective Identified Above:

7 a. Means of Program Assessment & Criteria for Success: 80% of the students will complete a lathe project at a 74% level.

7 a. Description of Data Collection & Assessment Results: **(complete this section in spring after assessment results are in)**
100% of Students completed assessment at a 74% level

7 a. Use of Results to Improve Instructional Program: **(complete in spring based on findings)**
Due to limited data, no program modifications are planned

B. Formative Means of Assessment for Objective Identified Above:

7 b. Means of Program Assessment & Criteria for Success: 80% of the students will complete a fastener identification exam at a 74% level.

7 b. Description of Data Collection & Assessment Results:
100% of Students completed assessment at a 74% level

7 b. Use of Results to Improve Instructional Program:
Due to limited data, no program modifications are planned

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Intended Educational (Student) Objective #8:

NOTE: There should be one form C for each intended outcome listed on form B. Intended outcome should be restated in the box immediately below with intended outcome number entered in the small blank spaces.

Objective 8: Demonstrate safe operation of hand and machine tools, students will perform in process measurement, mechanical drawing interpretation, and basic machining calculations.

A. Summative Means of Assessment for Objective Identified Above:

8 a. Means of Program Assessment & Criteria for Success: 80% of the students will complete a vise project or equivalent at a 74% level.

8 a. Description of Data Collection & Assessment Results: **(complete this section in spring after assessment results are in)**
75% of Students completed assessment at a 74% level

8 a. Use of Results to Improve Instructional Program: **(complete in spring based on findings)**
Due to limited data, no program modifications are planned

B. Formative Means of Assessment for Objective Identified Above:

8 b. Means of Program Assessment & Criteria for Success: 80% of the students will complete a written mill exam at a 74% level.

8 b. Description of Data Collection & Assessment Results:
83% of Students completed assessment at a 74% level

8 b. Use of Results to Improve Instructional Program:
Due to limited data, no program modifications are planned

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Intended Educational (Student) Objective #9:

NOTE: There should be one form C for each intended outcome listed on form B. Intended outcome should be restated in the box immediately below with intended outcome number entered in the small blank spaces.

Objective 9: Demonstrate the appropriate application of tools.

A. First Means of Assessment for Objective Identified Above:

9 a. Means of Program Assessment & Criteria for Success: 80% of the students will complete a vise project or equivalent at a 74% level.

9 a. Description of Data Collection & Assessment Results: **(complete this section in spring after assessment results are in)**
75% of Students completed assessment at a 74% level

9 a. Use of Results to Improve Instructional Program: **(complete in spring based on findings)**
Due to limited data, no program modifications are planned

B. Second Means of Assessment for Objective Identified Above:

9 b. Means of Program Assessment & Criteria for Success: 80% of the students will complete a tooling exam at a 74% level.

9 b. Description of Data Collection & Assessment Results:
100% of Students completed assessment at a 74% level

9 b. Use of Results to Improve Instructional Program:
Due to limited data, no program modifications are planned

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Intended Educational (Student) Objective #10:

NOTE: There should be one form C for each intended outcome listed on form B. Intended outcome should be restated in the box immediately below with intended outcome number entered in the small blank spaces.

Objective 10: Demonstrate safe setup, tool path verification, and operation of CNC machines.

A. First Means of Assessment for Objective Identified Above:

10 a. Means of Program Assessment & Criteria for Success: 80% of the students will complete a CNC machine performance evaluation at a 74% level.

10 a. Description of Data Collection & Assessment Results: **(complete this section in spring after assessment results are in)**
Cohort has not reached this competency

10 a. Use of Results to Improve Instructional Program: **(complete in spring based on findings)**
N/A

B. Second Means of Assessment for Objective Identified Above:

10 b. Means of Program Assessment & Criteria for Success: 80% of the students will complete a CNC machine startup, shutdown procedure at a 74% level.

10 b. Description of Data Collection & Assessment Results:
Cohort has not reached this competency

10 b. Use of Results to Improve Instructional Program:
N/A

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Intended Educational (Student) Objective #11:

NOTE: There should be one form C for each intended outcome listed on form B. Intended outcome should be restated in the box immediately below with intended outcome number entered in the small blank spaces.

Objective 11: Prepare part programs for CNC machines.

A. First Means of Assessment for Objective Identified Above:

11 a. Means of Program Assessment & Criteria for Success: 80% of the students will prepare mill program #4 at a 74% level.

11 a. Description of Data Collection & Assessment Results: **(complete this section in spring after assessment results are in)**
Cohort has not reached this competency

11 a. Use of Results to Improve Instructional Program: **(complete in spring based on findings)**
N/A

B. Second Means of Assessment for Objective Identified Above:

11 b. Means of Program Assessment & Criteria for Success: 80% of the students complete a G&M code exam at a 74% level.

11 b. Description of Data Collection & Assessment Results:
Cohort has not reached this competency

11 b. Use of Results to Improve Instructional Program:
N/A

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Intended Educational (Student) Objective #12:

NOTE: There should be one form C for each intended outcome listed on form B. Intended outcome should be restated in the box immediately below with intended outcome number entered in the small blank spaces.

Objective 12: Demonstrate appropriate tooling application, ANSI standards for tooling, and feeds & speeds.

A. First Means of Assessment for Objective Identified Above:

12 a. Means of Program Assessment & Criteria for Success: 80% of the students will complete mill program #4 at a 74% level.

12 a. Description of Data Collection & Assessment Results: **(complete this section in spring after assessment results are in)**
Cohort has not reached this competency

12 a. Use of Results to Improve Instructional Program: **(complete in spring based on findings)**
N/A

B. Second Means of Assessment for Objective Identified Above:

12 b. Means of Program Assessment & Criteria for Success: 80% of the students will complete a speed and feed exam at a 74% level.

12 b. Description of Data Collection & Assessment Results:
Cohort has not reached this competency

12 b. Use of Results to Improve Instructional Program:
N/A

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Intended Educational (Student) Objective #13:

NOTE: There should be one form C for each intended outcome listed on form B. Intended outcome should be restated in the box immediately below with intended outcome number entered in the small blank spaces.

Objective 13: Demonstrate manufacturing production systems processes, associated cost, and identify manufacturing materials and their application.

A. First Means of Assessment for Objective Identified Above:

13 a. Means of Program Assessment & Criteria for Success: 80% of the students will complete a MFG processes, cost, and material term paper at a 74% level.

13 a. Description of Data Collection & Assessment Results: **(complete this section in spring after assessment results are in)**
Cohort has not reached this competency

13 a. Use of Results to Improve Instructional Program: **(complete in spring based on findings)**
N/A

B. Second Means of Assessment for Objective Identified Above:

13 b. Means of Program Assessment & Criteria for Success: 80% of the students will complete (air motor) processes/cost exercise at a 74% level.

13 b. Description of Data Collection & Assessment Results:
Cohort has not reached this competency

13 b. Use of Results to Improve Instructional Program:
N/A

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Intended Educational (Student) Objective #14:

NOTE: There should be one form C for each intended outcome listed on form B. Intended outcome should be restated in the box immediately below with intended outcome number entered in the small blank spaces.

Objective 14: Perform various metrological methods, and identify the theory of quality systems .

A. First Means of Assessment for Objective Identified Above:

14 a. Means of Program Assessment & Criteria for Success: 80% of the students will complete an inspection log sheet at a 74% level.

14 a. Description of Data Collection & Assessment Results: **(complete this section in spring after assessment results are in)**
Cohort has not reached this competency

14 a. Use of Results to Improve Instructional Program: **(complete in spring based on findings)**
N/A

B. Second Means of Assessment for Objective Identified Above:

14 b. Means of Program Assessment & Criteria for Success: 80% of the students will complete a inspection log sheet exercise at a 74% level.

14 b. Description of Data Collection & Assessment Results:
Cohort has not reached this competency

14 b. Use of Results to Improve Instructional Program:
N/A

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Intended Educational (Student) Objective #15:

NOTE: There should be one form C for each intended outcome listed on form B. Intended outcome should be restated in the box immediately below with intended outcome number entered in the small blank spaces.

Objective 15: Create and verify part programs utilizing (CAM) software.

A. First Means of Assessment for Objective Identified Above:

15 a. Means of Program Assessment & Criteria for Success: 80% of the students will complete mill program #10 at a 74% level.

15 a. Description of Data Collection & Assessment Results: **(complete this section in spring after assessment results are in)**
Cohort has not reached this competency

15 a. Use of Results to Improve Instructional Program: **(complete in spring based on findings)**
N/A

B. Second Means of Assessment for Objective Identified Above:

15 b. Means of Program Assessment & Criteria for Success: 80% of the students will complete lathe program #7 at a 74% level.

15 b. Description of Data Collection & Assessment Results:
Cohort has not reached this competency

15 b. Use of Results to Improve Instructional Program:
N/A