

OSU-Okmulgee
Academic Programs Form A
ASSESSMENT REPORT FOR

Watchmaking & Microtechnoogy
(Unit)

Watch & Microtechnology
(Program Emphasis or Specialization)

A.A.S. Degree
(Degree: A.S. or A.A.S)

Academic Year 2003-2004 Summer Semester
(Assessment Period Covered)

Spring 2005
(Date Submitted)

Submitted By: Stan McMahan and Mary Millikin-Davies
(Chair or Faculty Assessment Representative)

OSU-Okmulgee
Academic Programs Form B
ASSESSMENT REPORT FOR

Watchmaking & Microtechnoogy
(Unit)

Watch & Microtechnology
(Program Emphasis or Specialization)

Academic Year 2003-2004 Summer Semester
(Assessment Period Covered)

Spring 2005
(Date Submitted)

Expanded Statement of Institutional Purpose Linkage
Reference Institutional Mission Statement below:

OSU-Okmulgee's mission is to serve as the lead institution of higher education in Oklahoma and the region providing comprehensive, high-quality, advancing technology programs and services to prepare and sustain a diverse student body as competitive members of a world-class workforce and contributing member of society.

Indicate Mission/Purpose of the Unit and relate it to the OSU-Okmulgee Mission below:

Unit Mission:

The Watchmaking and Microtechnology Program prepares graduates for a career in watch service and other micro-mechanical related careers.

List Intended Program of Study Objectives to be Assessed This Year:

CORE OBJECTIVES

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

Core Objective 2: Critical Thinking Demonstrate logical, systematic problem solving techniques.

Core Objective 3: Ethics Develop and display a sense of personal, social and professional work ethics.

Core Objective 4: Culture, History and Diversity 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.

Core Objective 5: Technology Access and use technology appropriate to one's industry or field of study.

TECHNICAL PROGRAM OBJECTIVES

Program Technical Objective 1. Meet the educational requirements of the industry through consistent application of the WOSTEP program

Program Technical Objective 2. Use, repair, and maintain tools and equipment common to the watchmaking industry

Program Technical Objective 3. Perform necessary maintenance and repair of the case, bracelet, and mechanism of modern watches

Program Technical Objective 4. Maintain the intrinsic and personal value of a timepiece by performing work in a consistent, craftsmanship-like manner that respects the history, ownership, and quality of the product as designed

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ASSESSMENT REPORT

(Unit)

Watchmaking & Microtechnology
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January – December 2004

(Assessment Period Covered)

Spring 2005

(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.

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

A. Formative Assessment:

1 a. Means of Program Assessment & Criteria for Success: (How is outcome going to be measured and what will be considered acceptable success?)

80% of all students will demonstrate their ability to effectively communicate electronically, verbally and in writing with an accuracy of 74% (or above) by providing the following:

Speech, SPCH 1113, --instructors will use a common grade sheet for the persuasive speech. Students must score at least 74% on that speech to be considered proficient.

Technical Writing I, ENGL 1033, --students will do an in-class essay and a portfolio and must score at least a "C" (74%) or higher on each to be considered proficient. The contents of the portfolio are the same for all students, regardless of instructor.

Type: Formative

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

75% of students taking SPCH 1113 completed the persuasive speech at the 74% level of proficiency or higher.

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

This was a small sample of Watch students. This cohort will be observed over the coming year for communication skill attainment.

B. Summative Assessment:

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

80% of students will make a presentation and/or complete written assignments covering topics that reinforce this objective, with a minimum proficiency level of 4.0 (66.7%). Assignments may include presentations and/or essays on historical elements of the Watchmaking industry, individual high achievers in Watchmaking, and other elements as deemed practical knowledge for the professional watchmaker that will enhance the student's respect for the history, ownership, and quality of the timepiece.

Assessment Type: Summative

1 b. Description of Data Collection & Assessment Results:

Fall 2003 Cohort is not to this point in the program yet.

1 b. Use of Results to Improve Instructional Program:

NA t

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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.

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

A. Formative Assessment:

2 a. Means of Program Assessment & Criteria for Success: (How is outcome going to be measured and what will be considered acceptable success?)

80% of students will demonstrate their ability to perform logical, systematic problem-solving techniques by scoring 74% or higher on MATH 1513--College Algebra or MATH 1613--Trigonometry Math comprehensive examinations.

Type: Formative

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

Data were not collected during this assessment cycle from math classes for this cohort to assess critical thinking this year. This will be assessed for the next cohort of students.

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

NA

B. Summative Assessment:

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

80% of students will demonstrate their ability to perform logical, systematic problem-solving techniques by scoring 74% or higher on WMT 2526 Chronographs portfolio of final exams and assignments.

Assessment Type: Summative

2 b. Description of Data Collection & Assessment Results:

Fall 2003 Cohort is not to this point in the program yet

2 b. Use of Results to Improve Instructional Program:

NA

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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.

Core Objective 3:

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

A. Formative Assessment:

3 a. Means of Program Assessment & Criteria for Success: (How is outcome going to be measured and what will be considered acceptable success?)

80% of all students will develop and display a sense of personal, social and professional work ethics with an accuracy of 74% (or above) by completing the required Code of Ethics Analysis assignment and reflective essay from PHIL 1213 Ethics.

Type: Formative

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

Formative data were not collected for this objective yet.

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

NA

B. Summative Assessment:

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

80% of students will access and use technology appropriate to one's industry or field of study with an accuracy of 74% or higher on a collection of assignments and paper and pencil exams in WMT 2426 Swiss Lever Escapement.

Assessment Type: Summative

3 b. Description of Data Collection & Assessment Results:

This cohort of students are not to this point in the program yet.

3 b. Use of Results to Improve Instructional Program:

NA

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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.

Core Objective 4:

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. Formative Assessment:

4 a. Means of Program Assessment & Criteria for Success: (How is outcome going to be measured and what will be considered acceptable success?)

80% of all students will demonstrate an ability to explain the cultural heritage and primary elements of the history and government of the U.S. and its people, especially as it impacts the Collision Technology field with an accuracy of 74% (or above) by completing required comprehensive exams from the designated history and government courses taken in HIST 1483-US History to 1865, HIST 1493-US History since 1865, or POLS 1113-US Government.

Type: Formative

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

100% of Watch students who took HIST 1493 attained this objective at the 74% level or higher.

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

Because the benchmark was exceeded, no changes will be made at this time.

B. Summative Assessment:

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

80% of students will make a presentation and/or complete written assignments covering topics that reinforce this objective, with a minimum proficiency level of 4.0 (66.7%). Assignments may include presentations and/or essays on historical elements of the watchmaking industry, individual high achievers in watchmaking, and other elements as deemed practical knowledge for the professional watchmaker that will enhance the student's respect for the history, ownership, and quality of the timepiece.

Assessment Type: Summative

4 b. Description of Data Collection & Assessment Results:

Cohort is not to this point in the program yet.

4 b. Use of Results to Improve Instructional Program:

Not Applicable this year.

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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.

Core Objective 5:

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

A. Formative Assessment:

5 a. Means of Program Assessment & Criteria for Success: (How is outcome going to be measured and what will be considered acceptable success?) 80% of students will access and use technology appropriate to the Watchmaking industry with an accuracy of 74% or higher on a portfolio of assignments in WMR 1126 Microtechnology I.

Type: Formative

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

This assessment was conducted in Fall 2003 while the Construction-Electrical assessment plan was being finalized. Consequently, these data were not collected.

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

NA.

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

80% of students will access and use technology appropriate to the Watchmaking industry with an accuracy of 74% or higher on a portfolio of assignments in WMR 2626 External Parts & Shop Mgmt/Capstone.

Assessment Type: Summative

5 b. Description of Data Collection & Assessment Results:

These data will not be collected until the final semester.

5 b. Use of Results to Improve Instructional Program:

Not Applicable this year.

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Formative Assessment for this Objective:

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.

Technical Objective 1: Meet the educational requirements of the industry through consistent application of the WOSTEP program

A. Formative Assessment:

1 a. Means of Program Assessment & Criteria for Success: 80% of students will complete a composite portfolio of hands-on assignments and written paper and pencil examinations in WMR 1126 Microtechnology I and will do so at the 74% level or higher.

1 a. Description of Data Collection & Assessment Results: (complete this section in spring after assessment results are in)
Data collection will begin with next cohort.

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

NA

B. Summative Assessment:

1 b. Means of Program Assessment & Criteria for Success:
80% of students will successfully meet or exceed WOSTEP assessment requirements to remain eligible for registration for the WOSTEP final examination. 80% of students eligible for final examination will successfully complete a written and performance examination (final exam) administered by WOSTEP.

1 b. Description of Data Collection & Assessment Results:
This is a summative assessment and will be conducted at the end of the program for the Fall 2003 cohort.

1 b. Use of Results to Improve Instructional Program:

NA

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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.

Technical Objective 2: Use, repair, and maintain tools and equipment common to the watchmaking industry

A. Formative Assessment:

2 a. Means of Program Assessment & Criteria for Success: 80% of students will successfully maintain personal tools and shop equipment with a minimum proficiency level of 4.0 (66.7%). Assessment of tool and equipment suitability to task, state of maintenance, functionality, and professional appearance will be the result of a combination of random and scheduled inspections. Assessment will utilize a pass/fail based scoring system. This will be reported after the third semester.

2 a. Description of Data Collection & Assessment Results: (complete this section in spring after assessment results are in)
Data collection process has begun.

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

B. Summative Assessment:

2 b. Means of Program Assessment & Criteria for Success: 80% of students will successfully maintain personal tools and shop equipment with a minimum proficiency level of 4.0 (66.7%). Assessment of tool and equipment suitability to task, state of maintenance, functionality, and professional appearance will be the result of a combination of random and scheduled inspections. Assessment will utilize a pass/fail based scoring system. This will be reported at graduation.

2 b. Description of Data Collection & Assessment Results:
Summative assessment to be conducted at end of program for this cohort.

2 b. Use of Results to Improve Instructional Program:

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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.

Technical Objective 5: Perform necessary maintenance and repair of the case, bracelet, and mechanism of modern watches

A. Formative Assessment:

3 a. Means of Program Assessment & Criteria for Success: 80% of students will successfully complete the final examination of WMT 2516 Automatic Watches and Complications at the 74% level of proficiency or higher.

3 a. Description of Data Collection & Assessment Results: (complete this section in spring after assessment results are in)
 Fall 2003 cohort has not yet taken this course.

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

B. Summative Assessment:

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

80% of students will successfully complete 60 or more repair points for projects (timepiece service) during the final 20 weeks of the program with a minimum proficiency level of 4.0 (66.7%). Assessment of the completed projects will follow WOSTEP grading criteria for intermediate examinations.

3 b. Description of Data Collection & Assessment Results:
 Cohort is not yet at this point in the program.

3 b. Use of Results to Improve Instructional Program: NA

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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.

Technical Objective 4: Maintain the intrinsic and personal value of a timepiece by performing work in a consistent, craftsmanship-like manner that respects the history, ownership, and quality of the product as designed

A. Formative Assessment:

4 a. Means of Program Assessment & Criteria for Success: 80% of students will perform practical work with no cosmetic and/or functional damage to the case, bracelet, and/or mechanism of the timepiece. Assessment of craftsmanship is performed in all areas of practical work inspection, repair project assessment, intermediate examination assessment, and final examination assessment with a minimum proficiency level of 4.0 (66.7%) at end of third semester.

4 a. Description of Data Collection & Assessment Results: (complete this section in spring after assessment results are in)
Cohort is not yet at this point in the program.

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

B. Summative Assessment:

4 b. Means of Program Assessment & Criteria for Success: 80% of students will make a presentation and/or complete written assignments covering topics that reinforce this objective, with a minimum proficiency level of 4.0 (66.7%). Assignments may include presentations and/or essays on historical elements of the watchmaking industry, individual high achievers in watchmaking, and other elements as deemed practical knowledge for the professional watchmaker that will enhance the student's respect for the history, ownership, and quality of the timepiece.

4 b. Description of Data Collection & Assessment Results:
Cohort is not yet at this point in the program.

4 b. Use of Results to Improve Instructional Program:
NA