

Program Assessment

Machine Technology AS

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General Information (Program Assessment)

Standing Requirements

❏ Mission Statement

❏ Student Learning Outcomes

Machine Technology AS Outcome Set

Student Learning Outcome

| Student Learning Outcome | Mapping |
|--|------------|
| Technical Literacy Students will communicate effectively in the technical language of the machinist trade, including written, verbal, mathematical, and computer skills. | No Mapping |
| Safety Students will rigorously pursue health and safety standards that impact them on a personal level, a workplace level, and in the larger environment. | No Mapping |
| Machining Skills Students will develop a foundation of skills necessary to operate conventional and CNC machine tools that enables them to manufacture and repair parts to meet required engineering specifications. | No Mapping |
| Planning Students will analyze part specifications, material conditions and tooling to develop a plan to successfully manufacture or repair the required part. | No Mapping |
| Soft Skills Students will demonstrate patience, focus, and concentration to successfully and safely complete job assignments. | No Mapping |
| Personal and Workplace Responsibilities Students will display pride, craftsmanship, and ownership in their execution of personal and workplace responsibilities. | No Mapping |

2008-2011 Assessment Cycle

Curriculum Map

There are no curriculum maps

Assessment Plan

Assessment Findings

Course Syllabi

Action Plan

Status Report

2011-2014 Assessment Cycle

Curriculum Map

There are no curriculum maps

Assessment Plan

Mission Statement

Outcomes and Assessment Measures

Machine Technology AS Outcome Set

Student Learning Outcome

Technical Literacy

Students will communicate effectively in the technical language of the machinist trade, including written, verbal, mathematical, and computer skills.

▼ **Assessment Measure:** Job placement, retention and advancement
Program level; Indirect - Interview

Details/description of the assessment measure/method: We will interview students and their employers in the trade to determine if they were satisfactorily prepared by our program in the area of technical literacy.

Describe the standards for successful performance on this SLO: Successful = success in the hiring process, success in their internships, continued advancement in their level of employment (salary and responsibility advancement).

What percentage of students should successfully meet the standards for this SLO?: 70% of students being hired and successfully advancing in their careers.

When do you plan to assess this outcome? (indicate the semester and year): ongoing, starting in 2009.

▼ **Assessment Measure:** NIMS Accreditation
Program level; Direct - Other

Details/description of the assessment measure/method: National Institute of Metalworking Skills will evaluate the physical shop, safety and safety protocols, curriculum, student learning, success on NIMS examinations, and employment for the purposes of accreditation.

Describe the standards for successful performance on this SLO: Success = the Laney Machine Technology program would become nationally accredited. (Currently, only one other California community college Machine Tech program is NIMS accredited.)

What percentage of students should successfully meet the standards for this SLO?: This outcome evaluates the capacity of the program to prepare students for gainful employment in the trade. It evaluates the overall program, not the students.

When do you plan to assess this outcome? (indicate the semester and year): The program will be evaluated by the end of Spring 2014.

Safety

Students will rigorously pursue health and safety standards that impact

▼ **Assessment Measure:** Job placement, retention and advancement
Program level; Indirect - Interview

them on a personal level, a workplace level, and in the larger environment.

Details/description of the assessment measure/method: We will interview students and their employers in the trade to determine if they were satisfactorily prepared by our program in the area of safety.

Describe the standards for successful performance on this SLO: Successful = success in the hiring process, success in their internships, continued advancement in their level of employment (salary and responsibility advancement).

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Machining Skills

Students will develop a foundation of skills necessary to operate conventional and CNC machine tools that enables them to manufacture and repair parts to meet required engineering specifications.

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Program level; Indirect - Interview

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When do you plan to assess this outcome? (indicate the semester and year): The program will be evaluated by the end of Spring 2014.

Planning

Students will analyze part specifications, material conditions and tooling to develop a plan to successfully manufacture or repair the required part.

▼ **Assessment Measure:** Job placement, retention and advancement
Program level; Indirect - Interview

Details/description of the assessment measure/method: We will interview students and their employers in the trade to determine if they were satisfactorily prepared by our program in the area of planning for the manufacture or repair of parts.

Describe the standards for successful performance on this SLO: Successful = success in the hiring process, success in their internships, continued advancement in their level of employment (salary and responsibility advancement).

What percentage of students should successfully meet the standards for this SLO?: 70% of students being hired and successfully advancing in their careers.

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Soft Skills

Students will demonstrate patience, focus, and concentration to successfully and safely complete job assignments.

▼ **Assessment Measure:** Job placement, retention and advancement
Program level; Indirect - Interview

Details/description of the assessment measure/method: We will interview students and their employers in the trade to determine if they were satisfactorily prepared by our program in the area of soft skills: communication, patience, focus, and concentration.

Describe the standards for successful performance on this SLO: Successful = success in the hiring process, success in their internships, continued advancement in their level of employment (salary and responsibility advancement).

What percentage of students should successfully meet the standards for this SLO?: 70% of students being hired and successfully advancing in their careers.

When do you plan to assess this outcome? (indicate the semester and year): ongoing, starting in 2009.

Personal and Workplace Responsibilities

Students will display pride, craftsmanship, and ownership in their execution of personal and workplace responsibilities.

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Program level; Indirect - Interview

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When do you plan to assess this outcome? (indicate the semester and year): ongoing,

starting in 2009.

Assessment Findings

Assessment Measure Result per Assessment Measure

Machine Technology AS Outcome Set

Student Learning Outcome

Technical Literacy

Students will communicate effectively in the technical language of the machinist trade, including written, verbal, mathematical, and computer skills.

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Details/description of the assessment measure/method: We will interview students and their employers in the trade to determine if they were satisfactorily prepared by our program in the area of technical literacy.

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What percentage of students should successfully meet the standards for this SLO?: 70% of students being hired and successfully advancing in their careers.

When do you plan to assess this outcome? (indicate the semester and year): ongoing, starting in 2009.

Assessment Measure Results for Job placement, retention and advancement

Summary of Assessment Measure Results: Job placement data reflects student hires, pay, and company they are working for. Job placement data is attached.

Numerous students appear several times because of job upgrades and promotions.

This validates the Machine Technology program by outside industry through the continued hiring and promotion of our students.

This outcome is a critical component of workplace success. If the students are not successful in technical literacy, they would not be employed or advanced. (But employers do not break down or separate performance on the different outcomes such as technical literacy, safety, etc.)

Results: Target Performance: Exceeded

What percentage of students successfully met the standards for this SLO?: 90% of our students who desire employment and upgrades successfully achieve their goals.

Was the assessment information sampled in any way? If so, please describe.: Not sampled.

▼ Assessment Measure: NIMS Accreditation Program level; Direct - Other

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What percentage of students should successfully meet the standards for this SLO?: This

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When do you plan to assess this outcome? (indicate the semester and year): The program will be evaluated by the end of Spring 2014.

Assessment Measure Results for NIMS Accreditation

No Assessment Measure Results Added

Safety

Students will rigorously pursue health and safety standards that impact them on a personal level, a workplace level, and in the larger environment.

▼ Assessment Measure: Job placement, retention and advancement Program level; Indirect - Interview

Details/description of the assessment measure/method: We will interview students and their employers in the trade to determine if they were satisfactorily prepared by our program in the area of safety.

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This outcome is a critical component of workplace success. If the students are not successful in safety, they would not be employed or advanced. (But employers do not break down or separate performance on the different outcomes such as technical literacy, safety, etc.)

Results: Target Performance: Exceeded

What percentage of students successfully met the standards for this SLO?: Over 90%

Was the assessment information sampled in any way? If so, please describe.: Not sampled.

▼ Assessment Measure: NIMS Accreditation Program level; Direct - Other

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Assessment Measure Results for NIMS Accreditation

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Program level; Indirect - Interview

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Results: Target Performance: Exceeded

What percentage of students successfully met the standards for this SLO?: over 90%

Was the assessment information sampled in any way? If so, please describe.: not sampled.

Overall Recommendations

No text specified

Overall Reflection

No text specified

 **Course Syllabi**

 **Action Plan**

 **Status Report**

2014-2017 Assessment Cycle

Curriculum Map

There are no curriculum maps

Assessment Plan

Assessment Findings

Course Syllabi

Action Plan

Status Report