



## Program Assessment Plan

<http://www.caspercollege.edu/assessment/index.html>

**Instructions:** To submit an assessment plan for a specified program, please respond to each of the questions below. *Use as much space as you need to describe the program assessment plan.* Once this form is completed, please email it as an attachment to [kthatcher@caspercollege.edu](mailto:kthatcher@caspercollege.edu). For guidelines and/or assistance in developing a plan for assessing student learning, please contact Kathleen Thatcher or consult resources on the Assessment website at <http://www.caspercollege.edu/assessment/index.html>.

### CC MISSION:

With a mission of student success, Casper College provides educational opportunities to improve quality of life and sustainable community building and citizenship.

The college is a premier public comprehensive two-year institution that provides academic transfer, vocational, continuing education and basic skills education for the citizens of Casper, Natrona County, the State of Wyoming and the World.

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| <b>1. Program:</b>                                   | <b>Manufacturing Technology</b> |
| <b>2. Department:</b>                                | <b>Manufacturing Technology</b> |
| <b>3. School:</b>                                    | <b>Business and Industry</b>    |
| <b>4. Person(s) Responsible for Developing Plan:</b> | <b>David Arndt</b>              |
| <b>5. Email:</b>                                     | <b>darndt@caspercollege.edu</b> |
| <b>6. Phone:</b>                                     | <b>(307) 268-2521</b>           |
| <b>6. Date Submitted:</b>                            | <b>February 16, 2011</b>        |

1. Does this program offer distance learning ?  Yes  No

(\*Note: Please complete a separate Assessment Plan form for each program.)

### A. Conceptual Assessment Plan Components

Assessment enables an understanding of what students are learning as a result of the program. Assessment findings can be used for a variety of purposes including making decisions regarding curriculum and instruction as well as providing feedback to students.

1. *State the department or program mission in terms of educational purpose or goals*

#### Mission Statement

The Casper College Manufacturing Department will provide the necessary training for its graduates to compete in the rapidly changing manufacturing industry. This will be accomplished by providing the technical training in these manufacturing areas: 1) Manufacturing design and blueprint reading, 2) Automated manufacturing and machine tool equipment, and 3) Welding applications.

#### Departmental Goals

1. Provide comprehensive training in the area of manufacturing design and blueprint reading.

2. Provide comprehensive training in the areas of machine tool and automated manufacturing.
  3. Provide comprehensive training in specific areas of welding technology.
2. *List the student learning outcomes for the program addressed by this plan. (Note: Please complete a separate Assessment Plan form for each program.)*
    - A. Demonstrate the knowledge and skills that are required in the use of drafting design.
    - B. Demonstrate the knowledge and skills that are required in designing, programming, and manufacturing a project.
    - C. Demonstrate the knowledge and skills that are required to read a blueprint for machine tool applications.
    - D. Demonstrate the knowledge and skills that are required to run a CNC system.
    - E. Demonstrate the knowledge and skills that are required to weld different types of metal.
  3. *Explain the student learning outcomes relation to the unit mission and goals (i.e. Do the student learning outcomes reflect the unit goals and objectives, further the mission, are rooted in the academic discipline, etc.?)*

The student learning outcomes are a direct reflection of the skills that the graduates from the Manufacturing program will need to become successfully employed in the manufacturing industry or to continue onto a four-year degree at another institution. The student outcomes reflect the skills that are required to achieve the goals for the Manufacturing program and the mission of the Manufacturing program.

4. *Describe how and by whom assessment findings will be used.*

Data for the assessment plan will be collected and analyzed on a yearly basis by the Manufacturing program's Department Chair. This data will be used to modify and improve the courses and curriculum for the Manufacturing program.

**Note:** For the 2010-2011 academic year, there were no students in the Manufacturing program. The result is that there is no data to collect for this assessment.

**Note:** During the fall 2010 semester, the Manufacturing Technology Advisory Board held a meeting and adopted a new curriculum for this program. The new curriculum for the Manufacturing program will be in effect for the 2011-2012 academic year.

## **B. Implementation Assessment Plan Components**

It is important to create a detailed implementation plan that aligns each student learning outcome with each of the following items:

- (A) how/where program outcomes are learned,
- (B) what evidence/indicator(s) will be collected, including both direct and indirect evidence,
- (C) how the evidence/indicator(s) will be collected and by whom,

(D) how the evidence/indicator(s) will be analyzed and by whom, and  
 (E) how assessment findings will be communicated back to the academic unit's faculty and students and used to improve the program.

Please note, it is important that the implementation plan collects useful information and that the collection and analysis methods are manageable given the resources available in your academic unit.

1. *Instructions:* For each program-level outcome (not course objectives), please provide information for each category listed below. Both direct and indirect evidence/indicators should be utilized in your assessment plan. You are encouraged to utilize existing evidence/indicators when feasible to keep the process manageable. You should also collect evidence/indicators throughout the program and not just at the end.

	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>
Program Learning Outcome	How/Where is outcome learned?	Evidence/ Indicator(s) of Learning	Collection method(s) for each source of evidence	Analysis method(s) for each source of evidence	Feedback Procedures (Faculty, staff & students)
A	ENTK 2510	Final Grade	Instructor	Comparison of grades	Analysis of data is made available to faculty and students
B	ENTK 1650	Final Grade	Instructor	Comparison of grades	Analysis of data is made available to faculty and students
C	MCHT 1640	Final Grade	Instructor	Comparison of grades	Analysis of data is made available to faculty and students
D	MCHT 2790	Final Grade	Instructor	Comparison of grades	Analysis of data is made available to faculty and students
E	WELD 1820	Final Grade	Instructor	Comparison of grades	Analysis of data is made available to faculty and students

2. Describe the responsibilities, timeline, and the process for implementing this assessment plan.

The department chair for the Manufacturing program will collect the data for the Manufacturing Matrix from the indicated course instructors during the fall semester each year. This data will be analyzed by the department chair and a report will be submitted at the required time.

### **C. Global Design & Use**

It is critical that program assessment plans be developed and approved by all faculty in the department. In addition, *include student input and external sources* (e.g., national standards, advisory boards, employers, alumni, etc.) in the development of the assessment plan(s).

1. *Describe the process through which your academic unit created this assessment plan.*

*Include:*

- a. *Timeline regarding when or how often this plan will be reviewed and revised. (This could be aligned with your unit's departmental review schedule.)*

This program will be review on an annual basis, to correspond with the departmental review schedule.

- b. *How students were included in the process and/or how student input was gathered and incorporated into the assessment plan.*

Student final grades are the basis for the assessment plan. The final grades for each course provide evidence of learning or student development.

- c. *What external sources were consulted in the development of this assessment plan?*

The Manufacturing Advisory Board and employers for the manufacturing graduates will be consulted and surveyed on the quality of manufacturing graduates and the course content in the manufacturing program.

Graduates of the manufacturing program will be surveyed and consulted about their employment and continuing education.

- d. *Assessment of the manageability of the plan in relation to departmental resources and personnel.*

The Manufacturing programs assessment is manageable, but the Manufacturing program has no budget. A budget is required for the Manufacturing program for the purchase for supplies for both the welding and machine tool courses, for the Advisory Board lunch and meeting, and for recruiting.