2012-13 Job Training

Faculty Name: Steve Henkelman Program: Machine Tool/CNC

Faculty & Staff

Faculty Professional Development Activities- Year End Summary
Attended Gerotech machine tool distributor and worked at an 8 hour training session. This training was on the new interface on the CNC lathe. Worked with the Skills USA team being available for the machine tool activities in March, 2013.

Faculty Development Plans for Upcoming Year
Return to Gerotech to learn a new intuitive programming system (IPS). This would be on the CNC vertical mills and lathes.

Faculty Accomplishments/Awards
We have had good job placement this academic year looks like 2013/2014 will be as good. A few students had 2 offers when they left the class.

Started internship program with X-Rite Corp. in Grand Rapids, MI. Two students were hired. Brought industry speakers from area to talk to students about opportunities at their facilities. They were Enterprise Tool and Die, Flexco, and Louis Padnos. I have visited some manufactures in the last year. That would be X-Rite Corp., Flexco, Pioneer Die Sets, Best Metal Product, and Pridgeon & Clay.

Curriculum

Course Improvement Projects
N/A

Program Improvement Projects
I investigated implementing Tooling University (web-based machine tool learning) as part of the program but we would run into a conflict with lab time. Also cost is expensive and we would have to investigate possibly different types of pricing.

Course Document (CARP) Updates completed this year
Did not update my CARP this past year.
Assessment of Student Learning

Program Learning Outcome(s) assessed this year

The end of the year study:

Each student was given the same project and at the same time in their training. Of the groups the 3rd group struggled with the syntax the worse. With would be more than 2 syntax errors. It was only this group.

Not that I feel I have to explain this groups lower achievement on this project. The data is showing the shift in this teaching technique has shown better starting competencies.

I ended up with 6 groups.

Assessment Project description:

CNC Project on correct syntax

Assessment Methods:

Observation

CNC Project on correct syntax

Data Collection Strategies

Start with group in July

Average each section of observation, next two sessions

Collect Project Score

Next two sessions

Measures of Student Learning
I used to teach the G & M codes to the students for about 3 lecture sessions. Now I would give the students all the syntax for the drawing used for the study. This did help for the students benefit. This I believe the reason it would ease some of the students frustrations at the beginning of the learning.

**Initial Data and Findings**

18 students were studied.
14 students had 2 syntax errors or less
4 had more than 2 syntax errors.

**Curricular or Pedagogical Changes Implemented**

Study will be repeated.

**Data and Findings (post improvement/change)**

The study will take place early in the 13-14 job training school year.

**Updates about Student Organizations and Achievements**

N/A