



Manufacturing/Machinist Technology Advisory Committee

May 7, 2015, 2:00-3:30pm
Room 2501, 2500 Building

Minutes

Present: Tom Stephenson- Royell Manufacturing
Thomas Van Acker- Electroimpact
Peter Eells- Esterline
Dan Huckins- Esterline
Sean Blechschmidt- Proto-Design Inc.
Chris Lindberg – Shoreline Community College
Brian Keever - Shoreline Community College
Jeff Purdy- Shoreline Community College
Keith Smith- Shoreline Community College
Michelene Felker- Shoreline Community College
Sherry Byers- Shoreline Community College
Susan Hoyne- Shoreline Community College
Dan Fey- Shoreline Community College
Jenifer Shahan- Shoreline Community College
Lauren Hadley - Shoreline Community College
Lora Brewsaugh - Shoreline Community College

1. Greetings and Introductions (5 minutes)- Tom Stephenson, Chairperson

2. Minutes from December 8, 2014

Minutes from the Advisory Committee meeting held on December 8, 2014 were read and approved.

3. WISE Grant Presentation – Lauren Hadley

The Manufacturing Department has been awarded an additional grant to complement the C2C Round 2 TAACCT grant. It is a nearly \$10 million project, funded by the US Department of Labor's TAACCT Round 4 grant. It brings together clean energy, advanced manufacturing and construction sectors to prepare participants for employment in entry level, pre-apprenticeship and apprenticeship occupations.

The grant will allow for hybridization and modularization of specific courses, namely MFGT 155/156 QA, MFGT 244, 246 and 247 Machine Maintenance, and new classes in Metrology, 3D printing and Solid Works.

In regards to the modularization of MFGT 105 & 106 the committed would like to see the following short courses for incumbent workers:

- Introduction to Manufacturing Technologies (Tom S. – PC Skills, rare but useful)
 - Personal Computers
 - Microsoft Office

- CAD/CAM/CNC
- Automated and Conventional Equipment
- Tool selection and troubleshooting (Blechsmidt)
- Statistical Process Control (Blechsmidt)
- Engineering Drawings (Pete E.)

Also

- Applied Metrology
- GD&T
- QA Methodology (MFGT 155) (Blechsmidt – calipers are not hammers, parts are not nails) (Pete E.)
- Metrology, shop floor Inspection (Tom S)
- Machine Maintenance Preventative (Tom S.)
- Programming Refresher (Pete E.)

Manufacturing Program Update – Jeff Purdy

- A. The South Seattle Georgetown campus is expanding and adding more machines. It will offer MFGT 105, 106, 120 going forward. We're looking to obtain another \$150,000 grant for Georgetown campus machines.
- B. The combination of the current C2C grant Round 2 TAAACCT grant, the WISE Round 4 grant, and the 1000 FTEs grant are allowing us to grow and offer more courses; we will offer a Control Maintenance course for Fall 2015 and WISE is driving the initiative of course hybridization.
- C. We've been awarded a NIST Grant, the first non-four-year institution to do so, to focus on the development of measurement science fundamentals.
- D. The department is going through the NIMS reaccreditation process.
- E. We have developed a database to help manage and track Manufacturing student data.
- F. The machine shop has added a new 5 axis HAAS machine, a digital visioning system, and has 3D printers headed our way soon.

Industry partners made some key points on where we should continue to expand and/or focus classes:

- Keep a serious connection with Boeing and focus on interior parts and bracketry
- Reach out to outside partners for suggestion on rapid prototyping for guidance on additive classes, like Fluke, the SME Chapter, Precor
- Consider an articulation with Edmonds Community College on Composites

4. NIMS Reaccreditation – Keith Smith

We are making good progress on the NIMS Reaccreditation process. We will soon be joined by Bates Community College. We need Met committee members to review the conditions of students' parts.

Each part needs to be checked by two companies. Tom Stephenson thinks it would be a good training tool for his employees. The reaccreditation process includes:

- Safety
- Adequate curriculum
- Employer survey on the Shoreline's Manufacturing department performance
- Data on the numbers of students obtaining NIMS credentials

5. Employer Survey – Michelene Felker

In the interest of gathering more detailed data on student employment and performance after CNC Machining program completion, we're interested in setting up an emailed employer survey.

Our industry partners recommended in-person visits and phone calls to get the most complete and honest feedback on our student's performances as they transition to employment. Also, it was suggested that we send out a quarterly program news update, with good news, hires, data on our e-footprint, etc. Also, industry suggest we follow up with students directly, ask exiting students for permission to do follow up employment surveys, and focus on soft skill development; Michelene uses LinkedIn to best keep tabs on student employment.

6. 10th Annual Open House – Keith Smith

We will celebrate our 10th annual open house on June 4, 2015 from 2-5pm with food, live manufacturing demos, and a presentation from Tom Stephenson of Royell Manufacturing. We requested more industry presentations at the open house. David from Royell may do a 5 axis demo and Keith will follow up with Tom on that.

7. STEM Fest – Susan Hoyne

Shoreline Community College hosts STEM Fest this Saturday, May 9, if anyone is interested in coming.