Shoreline Community College Manufacturing Department Advisory Committee Meeting
May 2, 2024, 2:00 – 3:30

Attending:

- Lauren Hadley – Shoreline Community College
- Blake Stone – Royell Mfg.
- Rick Rudnick – Boeing
- Kari Potter – Shoreline School District
- Brian Taylor – Siemens
- Keith Smith – Shoreline Community College

Agenda

- Greetings and Introductions – 5 minutes
- Minutes from 3/4/2024 - 5 minutes
- Manufacturing Area Review – Matthew Mitchell - 40 minutes
- Organizing Our New Space – Keith Smith – 30 minutes

Greetings and Introductions

Minutes from 3/4/2024
Minutes from 3/4/2024 were read and approved.

Manufacturing Area Review – Matthew Mitchell
Matthew discussed the annual review of the company's program, future projections, and the need for updates in learning outcomes and marketing materials. They also analyzed the enrollment trends, employment projections, and the results of a recent student survey, highlighting the need for stronger linkages between students, employers, and the program. Lastly, they discussed the potential of integrating robotics and 3D printing into the curriculum, the importance of engaging high school students, and the potential of work-based learning opportunities for students.

Updating Learning Outcomes and Diversifying Faculty
Matthew discussed the need to update learning outcomes and marketing materials in 2024. He suggested adding another faculty member, particularly a female one, to attract a more diverse student body. He identified a potential mismatch between the current curriculum and employment data, as well as a misalignment between the program's Curriculum Identification Program code and the CNC curriculum component taught, which is a skillset used by students in the workplace. Matthew proposed further examining this issue to ensure correct SIP code classification.

Program Enrollment, Alignment, and Student Success
Matthew presented data on the enrollment and curriculum alignment of a particular program, noting a decrease in both college-wide and program enrollment since the 2017-2018 academic year. K

SIP Code Discrepancies in SCC Programs
Matthew discussed the analysis of two programs offered at Shoreline Community College (SCC): Manufacturing Machinist Technology and Mechatronics. He noted discrepancies in the program's SIP (Standard Industrial Classification) code, particularly in the CNC operator certificate, which is no longer active but still listed on the website. Matthew suggested that the learning outcomes for the Triple A.S.

program, which has the largest credit load, should be revised to match its lower-credit certificate counterpart. He also identified a need to update the SIP codes, as they are not accurately reflecting the current occupations aligned with the programs. Matthew planned to continue investigating these issues, including reaching out to other community colleges for their SIP codes.

Student Survey Results and Program Improvements
Matthew presented the results of a recent student survey for the program. The survey showed that students are primarily coming to the program for skills to gain employment, with a need for stronger linkages between students, employers, and the program. It was noted that there was no indication of difficulties in employment after completing the program.

Curriculum Integration, Enrollment, and Work-Based Learning
Matthew emphasized the importance of integrating robotics and 3D printing into the curriculum and encouraged the program to leverage connections with former students for referrals..

Hands-on Learning Program in Manufacturing
Matthew expressed his enthusiasm for a program that encourages hands-on learning and career opportunities in the manufacturing industry. He emphasized the importance of engaging high school students and involving employers in the process to make the program more realistic and appealing. Keith suggested leveraging local maker spaces to advertise the program and attract potential students. Matthew agreed and suggested targeting adult learners and workers looking for a career change. He committed to creating a report in three weeks to identify the program's initial focus areas.

Organizing Our New Space – Keith Smith
Manufacturing is having a discussion on how to move forward on organizing our shop. There are two parts to this. One is to get your thoughts on how you approach organizing your shops and what are the most important habits to impress our students with. The second point is to take a tour of the shop and complete a survey. I will send out the survey to everyone to get their ideas on these major points.
As you all know, we have moved our shop twice in the last couple of years. This has caused a huge disruption and an opportunity for us to take organization to the next level.
Our old building was built in 1968. As you can imagine, over time, the organization systems became disjointed.

- Changing of staff
- Management systems
- Problem caused by issues being addressed as they came up.

What we are trying to do is to approach shop organization wholistically.

- Use Lean Manufacturing concepts – 5s
    - Sort: Eliminate that which is not needed.
    - Straighten: Organize what remains after sorting.
    - Shine: Clean and inspect the work area.
    - Standardize: Write standards for 5S.
    - Sustain: Consistently apply the 5S standards.

Meeting ended with a tour of the shop by the advisory members and Shoreline staff.

Meeting adjourned at 3:30