Shoreline Community College
16101 Greenwood Avenue North
Shoreline, WA 98133

Manufacturing/Machinist Advisory Committee
Meeting Minutes

February 14, 2017
16101 Greenwood Ave N, Shoreline, WA 98133, Building 2500, Room 2501A
11:30 a.m. – 1 p.m.

Advisors Present:	Tom Diehl, Klein Educational Systems Sandy Gibb, PROVAIL Joe Hauth, Aerospace Joint Apprenticeship Committee Rick Rudnick, Boeing Commercial Airplanes Paul Veltkamp, Aerospace Machinists Industrial District Lodge 751
Staff Present:	Guy Hamilton, Dean Lauren Hadley, Acting Director Manufacturing Grant Programs Brain Keever, Part-Time Instructor Chris Lindberg, Part-Time Instructor Jeff Purdy, Part-Time Instructor Keith Smith, Faculty Wanda Waldrop, Career Navigator
Guest:	Tia Rivera, Boeing

Welcome, Introductions and Minutes Approval: In Tom Stephenson's absence Lauren Hadley called the meeting to order at 11:35 and invited attendees to introduce themselves. The agenda was modified, and began with updates from Shoreline.

Updates from Shoreline:

- Report back on job readiness skill implemented in classes – Keith reported back on how instructors are implementing advisory committee feedback on preparing students for work in industry. At the previous advisory committee meeting, industry representative raised the idea that time management and cost efficiency become a part of the training at Shoreline. The instructors in Manufacturing have been devising ways to implement that into our curriculum. Here are just a few examples of what we are doing.
    - Taking in special projects from around the campus and treating them as jobs that we are doing for customers. These jobs have deadlines with quality expectations.
    - Making sure that our class projects have due dates that are challenging.
    - Stressing the reasons industry needs their workers to complete jobs on time with little or no scrap.

- Keith Smith shared information on the Gene Haas Scholarship. The college received $15,000 to support student scholarships, and $7,500 in awards were granted for winter quarter to support student tuition and tools. As we move forward to award scholarships for spring quarter, we invite advisory committee members to join the review committee. Applications will require a resume attached this time.

Mechatronics overview and internship discussion: Tia Rivera was introduced and provided an overview of the AMTEC curriculum implementation in Washington. Boeing identified a need in their workforce to have employees trained in machine maintenance, electronics, and robotics. After reviewing several curriculum models, they selected the Automotive Manufacturing Technical Education Collaborative (AMTEC) curriculum taught out of The Kentucky Community and Technical College System and funded by the National Science Foundation because it covers all of the knowledge, skills and abilities they are looking for in entry level mechatronics employees.

To meet the needs of industry, several colleges are implementing the curriculum in phases. First to begin are Everett Community College, Clover Park Technical College, and Centralia College. Shoreline Community College and North Seattle College are partnering to offer a two-year degree and are part of Phase II that will be fully implemented by fall 2017. Five schools were funded by the TechHire Department of Labor Grant to implement the AMTEC curriculum, this consortium is called MechaWA.

Industry partners are key to the success of this program. Tia distributed a handout that highlighted partner benefits and she shared that Boeing hopes to implement the Toyota model where students attend class for two days per week and are at an industry site three days per week. When she visited the Toyota plant in San Antonio she was impressed at the pride students had to be a part of Toyota as interns.

Tia invited advisory committee members to consider joining AMTEC as an industry partner. The benefit is partners can view the curriculum, there is no cost, and involvement supports the school. Partners are asked to serve as classroom speakers, discuss job readiness skills, build internships for students and support the MechaWA consortium.

Guy asked if there is a recommended pay scale for interns. Tia replied that there is no standard, but under the MechaWA consortium, the Center of Excellence for Aerospace and Advanced Manufacturing has funding to support companies who want to bring in interns.

Report back on Shoreline's Advanced Manufacturing Program – SWOT – Lauren shared with the committee the summary of the Strengths, Weaknesses, Opportunities, and Threats discussion that was done fall quarter by both the manufacturing staff and the manufacturing advisory committee. The committee discussed the results and provided feedback.

- Sandy G. – Practical core curriculum is not emphasized enough, meaning job readiness. They have technical skills, but we need good employees with soft skills. At PROVAIL we use an orientation and have begun a new performance evaluation that puts people on a

grid of performance versus attitude. This helps us identify training needs between attitude and behavior and performance.

- Guy posed the question that in automotive they are seeing communication and math skills are low, is this what you see as well?
- Sandy G. – Ability to carry out math, not so much, but the ability to problem solve, yes.
- Tia R. – Troubleshooting and critical thinking are what we see at Boeing. Create ways for them to see the pathway and do the critical thinking. We are trying to address this in the Core Plus curriculum at the high school level. Also, 1/3 of Boeing employees are terminated because of attendance.
- Joe H. – Students/employees should know how to reference a handbook or ask a question. They also need to understand the production environment.
- Sandy G. – They need to park their ego at the door.
- Tia R. – Yes, it is important for employers. Students need to understand how to communicate. They could implement a system to communicate between classes or on a work order.
- Tom D. – Project based experiences are great and show successes and failures.
- Rick R. – In robotics trainings you can induce errors into the system. (Tom D. seconded this comment)
- Tia R. – AMTEC and Clark College are doing this through a capstone project.

Final announcements

- Joe H. announced that the Washington Apprenticeship and Training Council approved AJAC's Production Technician (Youth) Apprenticeship. This apprenticeship is a 2,000 hour program designed for high school juniors and seniors to develop career-ready skills in the aerospace and advanced manufacturing industries. This apprenticeship program combines paid on-the-job training at an AJAC employer and college-level classroom instruction which can lead to a high school diploma, journey-level card and short-term college certificate.

Upcoming Meeting – May 9, 2017

The meeting adjourned at 12:30 p.m.