



Office of Career Education &
Career Services
2019-2020

CTE Program Advisory Committee Meeting Manufacturing

Tuesday, November 19, 2019
Technology, Room 107
Meeting Convened at: 12:00 a.m.
Meeting Adjourned at: 2:00 p.m.
Facilitator: Al Cervantes, Faculty

<u>COMMITTEE MEMBERS</u>	<u>EX-OFFICIO</u>
Jon Boomgarden, Edwards Life Sciences Scott Brown, Plant Manager, RBC Bearings Industrial Tectonics Div. Israel Castaneda, R&D Manager, Bal Seal Engineering, Inc. James Ecklund, Manager, Maintenance & Facilities Engineering, TABC Toyota Matt Ibrahim, Alumni/Owner, Garagistic Roy Jones, Owner, Senga Engineering Arjen Sakes, Vice President, HFO – Anaheim Travis Vu, Lathe Dept. Manager, Senga Engineering	Al Cervantes, Faculty, OCC Karl Henderson, Faculty, OCC Lisa Knuppel, Dean – Career Education, OCC Daniel Kreun, Instructional Associate, OCC Daniel Shrader, Dean – Technology Division, OCC

ADVISORY COMMITTEE MEETING SUMMARY

I. Welcome & Introductions

- Sign-in and confirmation of title/role and email/contact information Members
- Members introduced themselves stating their name and company Affiliation.

II. Review of Last Advisory Committee Recommendations

- Last Meeting Date: March 12, 2019
 - New Curriculum/Classes
 - Skills Lab this summer, A199
 - Business/Entrepreneurial skills, such as how to bid a job and cost analysis
 - New Equipment/Technology
 - Program Marketing/Recruitment Recommendations
 - Keep reaching out to the high schools through Career Fairs/Career Nights
 - Other recommendations for program improvement
 - Keep pushing the professionalism in the workplace

III. Review and Ratification of Program Level Outcomes (PLOs)

Reviewed and Ratified

Certificate Programs: CNC Operator, CNC Programmer, CNC Machine Operator, Machinist, CNC Machine Programmer

- Machine precision manufactured parts using conventional lathes and milling machines and perform necessary measurements.
- Set-up and operate CNC Lathes and Milling Machines.
- Write part machine programs for controlling CNC lathes and milling machines.
- Manufacture precision tooling for Dies, Molds, and Prototype tooling.

IV. Current Program Status and Updates

- Enrollment Trends
 - Doing very well

- High enrollment, mostly due to word of mouth
- Establishing a Facebook page
- Facilities/Equipment
 - Received new Wire EDM
 - Received 2 New CMM
- Curriculum
 - Offering a Mach 199 intro to 5axis course
 - Working on curriculum for a skills lab course
 - Retiring Mach 150 from tooling certificate as recommended by advisory committee members.
- Student Outcomes
 - There are certifications available in the industry, such as NIMS, but not really recognized in CA
 - Students are prepared to take exam if desired, but industry doesn't regularly require having it for employment

V. Review of Perkins Program Core Indicators

- Federal grant money provided to CTE programs to improve success rates of underserved populations listed on the College Core Indicator page
- Advisory committee meeting is necessary in order to be eligible for funds
- Numbers listed for categories are mainly based on self-reporting
- Negative numbers appearing on backside under Nontraditional Participation and Completions means programs lack female students as manufacturing is traditionally a male-based industry
- Hold advisory meetings in order to be eligible for funds to assist in improving negative numbers, i.e., focused recruitment of females

VI. Work-Based Learning Opportunities

- Overview of existing work-based learning elements of program.
- Internships are available with local companies

VII. Industry Update & Employment Trends

- Emerging technologies and industry practices
 - Swiss machines – cannot find workers to use machines
 - Fixturing – more training
 - Robots are being used on the floor
- Staffing/Hiring practices
 - Not enough workers to fill needs
 - RBC Bearings will hire students right out of program full-time

VIII. New Committee Recommendations

- New Curriculum/Classes
 - Curriculum for Skills Lab course is in process
 - Business/Entrepreneurial skills, such as how to bid a job and cost analysis
- New Equipment/Technology
 - Add new CNC mills and lathes
 - Add 5 axis simulation software
- Program Marketing/Recruitment Recommendations
 - Keep reaching out to the high schools through Career Fairs/Career Nights
- Other recommendations for program improvement
 - Keep pushing the professionalism in the workplace
 - Add 5 axis course

Closing Remarks

Al and Karl thanked everyone for their time, input, feedback and ongoing support of the program.