

Manufacturing Technology Advisory

Minutes

Date: Friday, March 15, 2024
 Time: 9:00AM-10:30AM
 Room: CACT – 2
 Facilitator(s): Stephanie Karnes, CTE Projects Specialist Norco College

Norco Faculty in Attendance: Paul Van Hulle

Industry Partners in Attendance:

Tovi	Spero	Association of Woodworking and Furnishings Suppliers	tovi@awfs.org
Michael	Trejo	Society of Wood Manufacturing	mike@InlandWorkers.org
Sharell	Malveaux	County of Riverside	smalveaux@rivco.org
Tovi	Spero	AWFS	tovi@awfs.org
Sarah	Kania	LAUNCH Apprenticeship Network	sarah@launchapprenticeship.org
Claudia	Silva	Launch Apprenticeship	claudia@launchapprenticeship.org
Patrick	McSwain	Quality Inspection	Patrick@qualityinspection.com
Sandra	Sisco	MCIE	ssisco@mfgcouncilie.com
Claude	Kessiah	Norco College	Claude.kessiah@norcocollege.edu
Juan	Gonzalez	Norco College	Juan.gonzalez@norcocollege.edu

1. Instruction and Curriculum Overview and Changes:

- Recap-Professor Van Hulle
 - o Need to increase enrollment.
 - o Machine Shop up and running and expanding.
 - o Degree Pathways in CNC, Machine Operator, MAN Tech Apprenticeships
 - o Expanding program offerings
 - o Half on-line, half in the classroom. Lab helping students with projects.
 - ENE-51 Blue print reading need as a skill before running the machine before
- CNC Writing-Haas training our Professors, Paul Van Hulle and Jesus Vela
- Suggestion by Tovi Spero, AWFS, get more people involved with CNC Programming.

- Safety classes to be not just front loaded on their schedule and safety procedures integrated into the beginning of courses.
- SACA-Paul Van Hulle- Professor Silver Certified and has certified students in the Automation Area and now pursuing advanced Gold certification.
- Introducing New Curriculum
 - Certified Industry 4.0 Robotics Specialist program-Priority*
 - New Curriculum on: Rccd.Curriqunet.com/report/course/getreport
 - <https://rccd.curriqunet.com/Account/Logon?ReturnUrl=%2f>
 - Certified Industry 4.0 Electro-Fluid Power Systems Specialist
 - Certified Industry 4.0 Control Systems Specialist-Priority*
 - Equipment Needs:CMM Machine
 - Skills: Material handling-Tovi mentioned is a valuable skill set
 - Robotic Welding-a big need Patrick McSwain
 - Trouble shooting, Fluid power and hydraulics and pneumatics-Paul asked if those skill sets are important
 - Pneumatics important to focus on
 - Repair of Fork lifts, Mills that are hydraulically controlled but cervo motor, steppers are new and used more
 - Electrical Systems Course-sub categorized by MAN-26, MAN-33, MAN-28, Claude mentioned our Inland Empire is warehouses galore and we have courses that meet the needs of Employers for workers in the companies : Home Depot, Wal-Mart, Sketchers, Target.
 - New * Programs Mechanical Systems Specialist
 - Feedback for skill sets Shaft alignment, mechanical power systems
 - Mike Trejo, SWM,-said they need machinery repairmen for specific equipment, machinery repair career fields

2. Workplace Trends:

- Woodworking Machinery entry level positions are increasing as shared from Tovi Spero and Mike Trejo. Mike and Tovi are Association of Woodworking and furnishing suppliers.
 - Patrick McSwain- Comments, Software PC Dimas, Prone hexagon matralogy.
 - Patrick McSwain-Motorcycle training program for creating the parts, CMSP, California Motorcycle Safety Program.
 - Labor market data to support Woodworking, machine setters, operators, and tenders
 - Woodworkers that are in Corona-Norco industry, Corona High School Woodworking program

3. Current skill expectations

- a. CNC Programming...Paul Van Hulle asked: Are skills transferrable?
- b. Patrick McSwain said yes as well as Tovi Spero and Mike Trejo. Tovi recommended more people get involved with CNC Programming.
- c. Tovi and Mike Trejo said yes skills in CNC are transferrable for wood working.
 - Skills are transferrable but need to expand for the specific positions.
 - Woodworking and CNC skills set are compatible

- Coding for WSI machines
 - Fender uses CNC and expects students to know CNC programming.
4. New policies or initiatives
- Title V grants available for funds for Wood Working
 - 501c that brings together students, Association Woodworking and furnishing Supplies, millwork, interior. Sponsors a trade show every other year, AWFS bear
5. Action Items
- Vote for Robotics Specialist
 - Results: Unanimous across the board support and recommendations from advisory to proceed with curriculum development and program implementation.
 - Controls Systems Specialist
 - Recommendation unanimous from advisory committee to document to pass.
 - Mechanical Systems Specialist
 - Recommendation unanimous from advisory committee to document to pass.
6. Equipment Needs:
- CMM machine (Paul), proposal of buying \$30k and can we teach a CMM course on only one machine?
 - CNC Woodworking-Gantry machine, tool heights as a skill set students are learning now and can expand with expanded Gantry machine needs.
 - Hexagon tried it \$4500 for accelerated shortened class, can you teach a CMM course on one machine?
 - Tovi suggested a host company to expand our lab equipment and space by taking some lab courses at a host company.
 - Tovi said, we don't need to massively expand equipment, but automation and woodworking, don't need table saw but existing CNC is great with the machines we have.
 - Patrick McSwain-needs hands on learning.
 - McSwain said there are 3 arm machines that are not as accurate in the real world. Video machines with Robots is important.
 - Tovi Spero- CMS machine up to 6 in.
 - Equipment recommendations-\$32k of CMM.
 - Patrick McSwain said for that cost you can get a manual machine but not programmable machine with semi-modern software.
 - Mike-TLC Auctions get liquidated school equipment so we might be able to get some equipment from them. Need updated software, they have woodworking tools, ban saws, table saws.
 - Software for CAM/CAD for different software
7. Engagement
- Internships-Mike Trejo said there is need for internships with companies within their Association of Woodworking and Furnishings Suppliers
 - Mike Trejo- company SWM-Securing funding for wood working programs, mill work need schools to do these wood working programs as there are several gaps in employment for these types of jobs. Industrial –Cerritos and Palomar only has a wood manufacturing program. Jordan Clarke-head of Palomar wood working. Ruebon Phoat-Cerritos college.
8. Concluding Remarks
- Tovi Spero-connections with Hexagon software to follow up, CEO is on his board. CMS

- Mike Trejo- Suggestion of Follow ups: Zoom sessions at night for more discussions.
- Mike, Tovi, and Patrick McSwain- Full class on Hydraulics and Pneumatics or just Pneumatics
- Recommendation- Center of Excellence-labor market data use to support programs.