

# RAMP Meeting Agenda

January 25, 2019 ♦ 8:00-10:00 a.m.

RCC Table Rock Campus - Room 206

❑ **Welcome & Introductions** (5m)

Mike Donnelly

❑ **Action Plan** – Review Assignments, Provide Updates & Coordinate on Next Steps Action

<b>Goal 1 Expand the Talent Pipeline</b>	<b>Goal 2 Workforce Dev. for Emerging Workers</b>
A2 Mechatronics training	D Provide short-term boot camp training
A3 Certified Production Technician	
B Incumbent worker training	

a) **Certified Production Technician & Mechatronics / Plant Systems Technician** (45-60m) 📄

- ▶ **Enrollment #'s for RCC Winter Term** [Jan 7 - Mar 22] Jill teVelde
- ▶ **Identifying & Ironing-Out Wrinkles in Implementation** Jill, Jim Fong & All
  - Review Prior Meeting Notes & Agreements / Assignments
  - Registration & Payments - RWP & RCC post-meeting
- ▶ **Affirming Incumbent Worker Participation #'s for Spring Term** [April 1 - June 14] Jill, Jim & All
- ▶ **Configuration of Spring Term Courses for Different Target Populations** Jill, Jim & All
  - Incumbent Workers
  - Transitioning Workers - from RCC – Adult Basic Skills & WorkSource Rogue Valley
  - Emerging Workers - from High Schools
- ▶ **Industry & RCC Tour + Scheduling Meet & Greet with Trainees** Jill
- ▶ **PMMI Mechatronics Certification Program** 📄 Jim
  - What's the Employer Demand?

**Goal 3 Increase Awareness of Manufacturing Careers**

- B Launch outreach campaign
- C Increase awareness - among students, parents, teachers & administrators about career opportunities in manufacturing

b) **Outreach / Awareness Campaign** (20-30m) 📄

- ▶ **Outreach to Other Manufacturing Industry Leaders** Jill & All
- ▶ **Outreach to Transitioning & Emerging Workers** Jill, Jim & All
  - Getting feedback on Careers Rogue Website: <http://careersrogue.com/>
  - Careers in Gear

c) **Updates from Other Assignments / Other Business** (20-25m) 📄

- ▶ **Co-Bots into High Schools** - any update yet? Mike & Juliet

❑ **Review Agreements, Assignments & Next Steps** (5m)

Mike & All

# RAMP Meeting Summary

November 16, 2018 ♦ RCC Table Rock Campus

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## Welcome & Introductions

### ***Industry Leaders:***

Mike Donnelly – Carestream  
Paula Lawson – Quantum Innovation  
Brian Mattingly, Matthew Hackbarth – Linde  
John Underwood – Timber Products  
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### ***Workforce & Education Partners:***

Rogue Workforce Partnership: Jim Fong, Heather Stafford, Jill teVelde, Tami Allison  
RCC: Ann Trausch, Lynn Black, Juliet Long  
SORED I: Colleen Padilla  
Business Oregon: Marta Tarantsey

Brian Mattingly, Linde Group announced that this will be his last meeting as he is relocating to the east coast to head the operations at a new Linde plant in Pennsylvania. Matthew Hackbarth (also in attendance today) is the new Operations Manager and will be attending these meetings in Brian's place – Welcome Matt!!!!

Additional handouts were provided at the start of the meeting:

- ▶ RAMP Action Plan
- ▶ SORED I Manufacturing Summit Survey Responses: Trends
- ▶ RCC Continuing Education Catalog – Winter 2019

## Check-in

The group did introductions and was asked to share, *“With the recent election and now stepping into the legislative cycle, do you/your company have any legislative or policy priorities that you think a collective and focused RAMP voice (along with other statewide manufacturing partners) can help advocate for in Salem or Washington DC?”*

- ▶ Hired a lobbyist to try to sway President Trump to back-off on trade war with China. Tariffs will be 25% starting January 1, 2019 making it uncompetitive with other companies
- ▶ Large population of this region is for emphasis on responsibility when harvesting the wood we have in the state. Trillions of dollars in standing wood that is left to burn or die. This does not help our state or rural communities
- ▶ SORED I sits on a legislative committee – currently seeing a lot of Enterprise Zone applications. The census are too narrowly focused. Need different incentives that apply across all industries
- ▶ 30-40% of business is export – being taxed significantly
- ▶ Love that the state is investing in CTE and K-12 and the need to connect with community colleges

Jim added it is a function of a workforce board to get the pulse and then aggregate the voices of the community and figuring out how to have the voices heard. Jim's pitch is that we need to get these points written down and in front of our legislators. *“Lift the voice up, aggregate it, and coordinate with legislators.”*

Jim also noted that he has been having conversations with local trucking companies who have reached out indicating that they need help.

A few members of the workforce board, along with Jim, go back to DC yearly for the NAWB (National Association of Workforce Boards) conference and is an opportunity to meet with legislators to have the important conversations.

A couple of manufacturing leaders around the table told the group about the huge increase in natural gas prices for businesses due to the repair work happening on the Alaska Pipeline. Business leaders indicated that we need more gas / another pipeline as we cannot attract business when gas can be taken/limited at a moment's notice. Jim suggested getting more details on these types of stories to put before the legislators. Anyone who wishes to send information to RWP can do so. Another local manufacturing company indicated that they will need to shut down part of their business in several facilities because of the natural gas.

### RCC Training Coordination & Logistics

RCC gave an update on what they will be offering in January and February.

Heather reported that a test survey was sent out to gauge the participation for immediate training and on the list of the twelve classes identified as immediately actionable for both Plant Systems tech and Mechatronics, ten of the courses are already scheduled for winter term. It was noted that an algebra class could be added if there is an official commitment as well the possibility of expanded hours if there is a need not being met.

CPT (Certified Production Technician) will be cohort based for incumbent workers with the majority of the training being online with some lab time. The model is 60/60 ( 60 classroom hours, 60 hour on their own – self-paced). Students must have access to a computer and the internet. In February there will be the opportunity to do two CPT cohorts (one for new entry and one for incumbent workers). The goal is to get people registered prior to December 20, 2018. The continuing education registration system is new and online starting November 26, 2018. RCC will work with employers to register their workers. RCC needs to know the people entering the cohort by December 19 so items can be ordered.

The conversation morphed into the process for paying for the incumbent workers to take the training. RCC indicated they need employee names and contact information for those planning on attending.

#### **Next Steps:**

- › **RWP will create an online form so both RCC and RWP can have access to incumbent worker information in order to process payments.**
- › **Lynn Black will provide the registration field information.**

Lynn presented a draft of a CPT brochure developed by RCC. The businesses around the table (Quantum, Timber Products, CareStream, and Linde) approved RCC listing their names on the back of the brochure indicating hiring preference.

Jim feels we need one brochure that represents both credit and non-credit sides of RCC. RCC indicated that even though they are two separate departments, they are working together to move this forward. Jim is looking to have one marketing stream to direct people for CTE to one place. Jim indicated **it would be helpful to sit down and map this out with all the marketing people.**

- › Non-credit courses coming online in January for incumbent workers

- › CTE Academy (for credit) available in March – Juliet will let RWP know when the letter goes out to high schools and how many people sign up. Juliet indicated that high schools will be paying for this training for their students. Jim indicated that we may need to connect with high schools if we have grant funds left to spend to possibly subsidize.
- › Spring term is the target for RCC students as well as ABS students
- › Non-credit can also train emerging workers as well, but do not want to mix them with the incumbent workers.
- › **Work with Lynn for January through June non-credit trainings**
- › Juliet doesn't feel we can combine for the credit side until after June 2019

Emerging Workers (Certified Production Technician) – the model for this cohort of 20-25 students will be a bit different. At the end of 12 weeks, the promise is that they would get an interview. How would this be structured with employers?

- › Brochure will need specific contact for each employer
- › Could we do a mixer/job fair?
- › Carestream added that the interviewee must also apply on the website
- › Graduation ceremony where industry is invited (speed dating)
- › Would be dependent on open positions with employers
  - Even if no open positions, employers would be willing to do a meet and greet for a pool of candidates
- › Change wording from guaranteed interview to guarantee of a meet and greet opportunity with industry partners
- › Suggestions of **adding company logos** (to include Rogue Valley Microdevices) **as well as the connection to the SOREDI Edge Campaign & Quest** to the brochure
- › **Schedule a tour of RCC Tech Center and industry partners for emerging and transitioning workers**
  - What are the logistics?
    - Would like to do the tour in January
  - **Jill will connect with industry leaders** offline to talk more
    - Tours not an issue for RCC as it is out of the credit schedule
    - Linde has age and citizenship requirements
  - An informational tour of RCC High Tech Center could be done in late January

Juliet announced that for emerging and transitioning workers (including ABS students) who are not attending CTE Academy, training could be as far out as March 2019 or later.

### **Integrating Personal Effectiveness & Employability Skills**

Jim reported that he is in conversation with various community partners to offer this training to assist people in developing these skills. Brenda Johnson, Executive Director from LaClinica, purchased the WINGS training a couple of years ago. Their core initial 4-day offering is called Well-Being (aka: Personal Effectiveness Seminar), has been attended by many folks in the region and state, and has an excellent reputation for helping people to develop these kinds of core social/emotional well-being skills.

**Plans are underway to create weekend Wings offering.** This could accommodate those coming through RCC – Adult Basic Skills, WorkSource Rogue Valley and the High Schools, as well as any incumbent workers / businesses interested. The idea would be to offer it as a bonus weekend seminar for folks that go through the CPT training, the new Caregiver School of Learning, as well as other entry-level industry focused skills trainings. **The plan is to have at least one offering between now and June 30<sup>th</sup>.**

Paula Lawson shared she went through the Wings seminar a number of years ago, and strongly recommend that it be offered on a voluntary basis, since the seminars can be deeply transformative and life-changing.

## **Revolving Tuition Fund**

Two categories of support were presented in the draft proposal that was included in today's packet, and the group discussed elements of the proposal.

- **Entry Level Worker – Employer Contribution Program**
  - *Target Populations:*
    - High School students or recent graduates
    - WIOA Title I – Adult or Dislocated Worker; or Youth eligible participants
    - Entry level CPT students transitioning from a workforce program such as Adult Basic Skills at Rogue Community College, or another similar partner
  - Employers will contribute \$2,500 to the Revolving Training Fund upon notification from RWP after 60 days on the job

Concerns and suggestions were expressed as follows:

- If a job is posted and there is not enough flow of candidates, the company would be paying more than to put an incumbent worker through the training to skill up. There has to be a continuous flow of candidates.
- There is; however, a value as someone is not being taken from their work to attend training.
- Carestream would like to have an internal agreement to waive the electrical safety training
- Timber Products has a leadership university and would want to send the people in this category to the CPT training.
- Would like to do a parallel study comparing new people coming in and those hired through Express Pros to see the success rate.

The take away from this conversation is to:

- Start with cost reimbursement
- Show proof of concept for the revolving fund
- Get feedback from first could people completing program
- Capture success stories

- **Incumbent Workers Training Program**
  - We are creating this program to incentivize small to medium companies to skill up their workers and grow their businesses
  - Employers will contribute to the Revolving Training Fund the amount of tuition, fees, and books upon notification from RWP, within a week or so after the course begins
  - Employers are responsible for completing an application with RWP and registering their employees with RCC
  - Subsidy Levels:
    - 75% Subsidy - Small businesses with under 10 employees and/or annual revenue below \$1M
    - 50% Subsidy - Small businesses with under 20 employees and/or annual revenue below \$2M
    - 25% Subsidy - Small businesses with under 50 employees and/or annual revenue below \$5M

- 0% Subsidy - Employers with 50 or more employees and/or annual revenue above \$5M (*large employers who already provide training reimbursement for their employees will contribute to this Fund in order to grow the region's manufacturing economy and fill the manufacturing workforce talent pipeline*)

Concerns and suggestions were expressed as follows:

- › Make good talent accessible despite the company's bottom line revenue
- › Need employers feedback regarding the percentages above
- › Do not ask the questions if company wants to grow – might limit the entry
- › Have a lot of management interested because it's a reimbursement program
- › Don't think companies will target entry workers to go through the training
- › Would like to see a larger subsidy for larger companies
- › A step process was suggested
  - Everyone receive the same subsidy for the first year no matter what the company size
  - Prove the concept
- › Employer concerns about the corporate bureaucracy of getting RCC and/or RWP into the corporate bill pay system.
- › Need to address the conflict of interest policy for all businesses involved

#### Next Steps:

- › **RWP will rework a budget using both 50% and 100% subsidy and bring back to the group.**

### Outreach to Other Manufacturing Industry Leaders

Heather asked the group for ideas on how to get more than the 4-5 employers around this table involved. She stated that there are about 70 manufacturers on our list and over 400 in the valley-

- › Who are they?
- › How do we reach them?
  - Through venues such as SOREDI, RAMP, BEP
  - With a comprehensive brochure hand delivered to executive management
  - Tie information to QUEST
  - Fastest way to get people involved is for them to think they are missing something
  - Word of mouth
- › Where do industry people gather?
  - SHRM
  - Personnel Source
  - Express Pros
  - BBSI

### RAMP Brochure & Outreach Campaign

Heather is working with Laurel Briggs, Creative Marketing & Design to develop a broader campaign geared toward students and people in general that is more industry aligned and less government aligned.

#### Next Steps:

- › **Laurel will be asked to develop a marketing strategy to bring back to the group**

## Getting Co-Bots into High Schools

Currently; Carestream, Linde, and Quantum have at least one co-bot in their facility.

Training the workforce at the high school level and trying to find funds to help schools get co-bots would improve the quality of the up and coming workforce.

- Have a co-bot at Careers in Gear
- Have a pilot in one of the high schools using a co-bot
- Demo units are out there that are less expensive
- Have a manufacturer donate a demo unit to a high school
- Check with OMEP to see if they have a grant to purchase a co-bot

Discussion took place about the connection between high school and community college to use Perkins funds to purchase a co-bot.

### **Next Steps:**

- **Julie, Ann, and Mike will do some research for options and bring back to the group at a later date**

## Miscellaneous New Business

- Rather than having separate advisory committees for manufacturing and electronics; Juliet indicated that it would be good to have an advisory committee for mechatronics and it would be the perfect one for the industry leaders to attend.
- Ann talked about the “Wall of Fame” for graduates where they place their business cards. Mike suggested making the wall virtual. Jim would like to partner to think more about a wall for the OneStop
- CTE signing day is February 21, 2019 at RCC’s Table Rock Campus. Suggestion to possibly do an open house prior to the signing event.
- SOREDI Summit Feedback – Marta presented aggregated feedback from the SOREDI Manufacturing Summit.
- **The next meeting will be held on January 18, 2019.** It was noted that the group is still meeting monthly but is skipping the month of December.

# RAMP Meeting Summary

November 28, 2018 ♦ RCC Table Rock Campus

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## A. Welcome & Introductions

### ***Industry Leaders:***

Mike Donnelly, Yolanda Arellano-Haynes – Carestream  
Matthew Hackbarth – Linde  
John Underwood – Timber Products  
Shawn Hogan – Linx Technologies

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### ***Workforce & Education Partners:***

Rogue Workforce Partnership: Jim Fong, Heather Stafford, Jill teVelde, Tami Allison, Sherri Emitte (via phone)  
RCC: Juliet Long

This meeting was convened for Core RAMP Members as well as RCC partners as a follow-up to iron out more implementation details on rolling out the new training capacities being put into place at RCC. We asked the group to come together to discuss:

- Registration
- Prerequisites
- Employer Contribution

Heather reported that she was able to do more work with the credit and non-credit sides at RCC and there are some timely things that were not on the radar screen at the last meeting:

- Winter and Spring 2018-2019 Training Plan
- Summary of conversations with the non-credit side of RCC
  - CPT and non-credit with one organization
  - Mechatronics and for credit with other organizations
- Enrollment process differences for each option

## **Certified Production Technician (CPT)**

Heather reviewed the Training Plan document with the group noting that the deadline to submit student information on an online form for CPT and Mechatronics is December 19. The form needs to be completed for each employee and include the company information as well. RCC indicated that they will do the registrations for CPT which has 22 seats available for winter term. The **google online form will be sent to businesses in an email.**

It was indicated that no pre-requisites are required, no immediate payment by the business is required and RCC and RWP will take care of the payment process behind the scenes to allow for a smooth process for employers. For CPT, RWP will consolidate the students and their companies on an invoice that will be sent to the company for a 50% reimbursement. The 50% reimbursement was decided upon for this first round of trainings and will be looked at, and discussed again in the future.

Jim talked about the eventual portal where a **google form will live on the Rogue Careers Website**, indicating that this is a future bucket of work.

The group discussed and decided that the **initial start-up email to businesses will go to the entire RAMP list giving them the opportunity to sign up their employees.**

Businesses around the table indicated that it is easier for their companies to do a payment for a class rather than a contribution. **Businesses need an invoice for “tuition reimbursement.”** Sherri E. agreed that this will work for RWP.

Juliet announced that Dana Thorp-Patterson is no longer with RCC and that Lynn Black has been appointed as Interim Dean of Continuing Education.

## **Mechatronics**

Mechatronics is a for-credit course with the possibility of non-credit options in 2020. Students must enroll themselves as they are enrolling as an actual RCC student. Students must register themselves and print out the schedule of classes and what they owe to present to the employer. The businesses around the table indicated that typically an employee would pay out of pocket and the company would reimburse at the time of successful completion; however, John indicated that Timber Products would handle as a pre-apprenticeship and pay for it. All the businesses around the table agreed that they would run as a pre-apprenticeship (including pre-requisites) versus a tuition reimbursement. Juliet indicated that payment plans are available that could offset any burden on the student. Lynn indicated previously that she has some ideas on how to handle registration, payment, etc. that can be done internally.

Businesses around the table indicated that they need something very clear and concise that shows what the course is, the classes involved, class description, class time and cost that he can present to his management team. **Heather indicated that she is working on something for the businesses and will create separate documents for CPT and Mechatronics.**

The group reviewed the training plan for the Mechatronics and the Plant Systems Technician and discussed the assessments that are required. Juliet noted that unofficial transcripts can be used to waive classes as appropriate for people who are taking class for personal enrichment and are not seeking a degree at this time. Juliet added that placement tests at any school can also be used.

Businesses offered feedback on the outreach information they received from us, indicating that they would like to have slides to show at their internal management meetings. **Heather said she would do both .pdf as well as a slide deck.**

	Coordination Areas				
	Outreach/Marketing	Identification of Trainees	Pre-Assessment/ Registration / Enrollment	Payment/Finances	Reporting on Results
<b>Certified Production Technician</b>					Total #'s by 6/30/19 • Minimum target = 22 • Aspiration target = 33
<ul style="list-style-type: none"> <li>• Non-Credit for Incumbent Workers</li> </ul>	<ul style="list-style-type: none"> <li>• Short-Team: In-person Business Outreach by RWP staff &amp; RAMP members -----</li> <li>• Long-Term: Coordinated outreach by RAMP, RWP, SOREDI, Business Oregon, WorkSource Rogue Valley</li> </ul>	<ul style="list-style-type: none"> <li>• Need an updated reality check from core 5 employers on their projected # of 22 total trainees – are your #'s still accurate?</li> </ul>	<ul style="list-style-type: none"> <li>• Hiccups that need to be resolved by RCC/RWP                             <ul style="list-style-type: none"> <li>• Streamlining employer's process for filling out google form – remove this step for non-credit.</li> <li>• Unpacking "Harriett's" registration &amp; payment concerns</li> <li>• Any other concerns? Or guidance from employers?</li> </ul> </li> <li>• Any issues to discuss / address on company approval process?</li> </ul>	<ul style="list-style-type: none"> <li>• Hiccups that need to be resolved by RCC/RWP                             <ul style="list-style-type: none"> <li>• Non-Credit Does RCC need a purchase order from RWP?</li> <li>• What objective registration documentation can RWP get from RCC &amp; at what point?</li> <li>• Unpacking "Harriett's" registration &amp; payment concerns</li> <li>• Are there any differences in process between credit &amp; non-credit?</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• 10-12 enrolled for Jan-Mar term</li> </ul>
<ul style="list-style-type: none"> <li>• Credit or Non-Credit for Transitioning Workers</li> </ul>	<ul style="list-style-type: none"> <li>• Outreach to RCC – Adult Basic Skills, WorkSource Rogue Valley &amp; DHS</li> <li>• Industry Tour of Quantum Innovations, Linde &amp; RCC Tech Center</li> <li>• Meet &amp; Greet with Job-Seekers &amp; Companies</li> </ul>				<ul style="list-style-type: none"> <li>• #s projected?</li> </ul>
<ul style="list-style-type: none"> <li>• Career Tech Academy for High School Students</li> </ul>	<ul style="list-style-type: none"> <li>• RCC coordination with school districts</li> <li>• Meet &amp; Greet with Job-Seekers &amp; Companies</li> </ul>			<ul style="list-style-type: none"> <li>• RWP/RCC iron out if WTDB grants can help pay for some of these students</li> </ul>	<ul style="list-style-type: none"> <li>• #s projected?</li> </ul>
<b>Mechatronics &amp; Plant Systems Tech</b>	<ul style="list-style-type: none"> <li>• Short-Team: In-person Business Outreach by RWP staff &amp; RAMP members -----</li> <li>• Long-Term: Coordinated outreach by RAMP, RWP, SOREDI, Business Oregon, WorkSource Rogue Valley</li> </ul>	<ul style="list-style-type: none"> <li>• Need an updated reality check from core 5 employers on their projected # of 31 total trainees – are your #'s still accurate?</li> </ul>	<ul style="list-style-type: none"> <li>• 0 Assessed &amp; Enrolled for Jan-Mar term</li> </ul>		<ul style="list-style-type: none"> <li>• Total #'s by 6/30/19</li> <li>• Minimum target = 15</li> <li>• Aspiration target = 25 -----</li> <li>• 0 Assessed &amp; Enrolled for Jan-Mar term</li> <li>• Now need to enroll 25 for Mar-May term or redeploy funds?</li> </ul>



# PMMI Mechatronics Certifications



## About the PMMI Mechatronics Program

The PMMI Mechatronics program helps move manufacturing forward by providing employers, schools and potential workers the tools needed to advance the workforce and close the ever expanding skills gap.

Through a series of tests based on industry-developed skill standards, the PMMI Mechatronics Certification program:

- Helps employers assess workers for core skills
- Guides schools in developing curriculum to prepare students for the manufacturing workforce
- Provides a career pathway for students looking for rewarding careers in advanced manufacturing

Our certification tests are based on industry-developed standards and are recognized by the U.S. Department of Labor and the [Manufacturing Institute's](#) Skills Certification System. We work with a growing number of PMMI Mechatronics [Education](#) and Industry Partners to further advance this program.

## More Information

### What is Mechatronics?

Mechatronics is the synergistic application of mechanical engineering, electrical engineering, controls engineering, and computer science to build and maintain high-tech equipment.

### Why is it important?

Employers today need multi-skilled workers to operate, maintain, and troubleshoot equipment on the plant floor. To achieve this, workers require mechatronics skills. PMMI's online Mechatronics Certification tests benefit both employers and the workforce.

### Who can benefit from having the certification?

- Industrial maintenance technicians
- Maintenance mechanics
- Installation, maintenance, and repair workers
- Production technicians
- Military personnel transitioning into careers in the civilian workforce

### Why is this important for employers?



These certifications help employers identify qualified skilled workers. Employers can use the certification test as a hiring tool or as an evaluation tool to identify and address knowledge gaps in their existing workforce.

[WATCH VIDEO](#)



## Mechatronics Certification Tests

PMMI Mechatronics Certification Tests are based on industry-developed standards and recognized by the U.S. Department of Labor. They are also recognized by the Manufacturing Institute's Skills Certification System, which is endorsed by the National Association of Manufacturing.

**NOTE:** These tests are taken online, and individuals earn a certification for each test they pass.



### Mechatronics Certification Test - Fluid Power 1

This certificate covers the function, operation, and application of common components used in fluid power circuits and systems. It also assesses the understanding of how fluid power components and accessories are placed together to create circuits and systems for powering industrial machines. The major emphasis is on pneumatics with a lesser emphasis on hydra...

Price: \$125.00

[ACCESS TEST CENTER](#)

[DETAILS](#)



### Mechatronics Certification Test - Industrial Electricity 1

This certificate covers basic safety practices for voltages up to 600 volts and knowledge of voltage, current and power in AC and DC circuits, circuit analysis of series and parallel loads, and basic understanding of resistors, capacitors, and inductors. It applies these fundamentals to simple applications that would be 3

Price: \$125.00

[ACCESS TEST CENTER](#)

[DETAILS](#)



### Mechatronics Certification Test - Industrial Electricity 2

The Industrial Electricity 2 certificate builds upon the Industrial Electricity 1 certificate. Candidates should understand more complex motor starting circuits such as jogging, hand-off-automatic, reversing, and reduced voltage starting. They should be familiar with time-based, count-based and sequential control of multiple output loads utilizing control relay log...

Price: \$125.00

[ACCESS TEST CENTER](#)

[DETAILS](#)



### Mechatronics Certification Test - Mechanical Components 1

This certificate covers the principles and applications of the most commonly found mechanical drive components as used in packaging machinery and systems. Topics include simple mechanical power transmission devices such as shafts, belts, chains, cams and gears with an emphasis on application and troubleshooting. An understanding of simple mecha...

Price: \$125.00

[ACCESS TEST CENTER](#)

[DETAILS](#)



## Mechatronics Certification Test - Mechanical Components 2

This certification exam builds upon the topics covered on the Mechanical Components 1 test by evaluating the candidate's mastery of the principles and application of more complex mechanical components such as clutches, brakes, gear boxes, transmissions, ball screws, and linear components. It also explores sealing, lubricants and automated lubrication, precision ali...

Price: \$125.00

[ACCESS TEST CENTER](#)

[DETAILS](#)



## Mechatronics Certification Test - Motor and Motor Controls

This certificate exam evaluates the candidate's mastery of the principles, application, troubleshooting and maintenance of rotating electrical motors and electronic motor drives as used in packaging, processing and other manufacturing environments. Topics include motor and drive safety practices; characteristics of 3-phase power systems; speed, torque a...

Price: \$125.00

[ACCESS TEST CENTER](#)

[DETAILS](#)



## Mechatronics Certification Test - Programmable Logic Controllers (PLCs) 1

This certificate covers the principles and applications of different types of logic and programming used to control packaging machinery and systems. Topics include hardware and software composition of control systems, input/output interfacing, basic logic commands and common programming instructions. There is additional emphasis on common program tasks, and trouble...

Price: \$125.00

[ACCESS TEST CENTER](#)

[DETAILS](#)



## Mechatronics Certification Test - Programmable Logic Controllers (PLCs) 2

This test covers advanced principles and applications of programmable logic controllers (PLCs). Among the advanced topics are PLC real time considerations, various levels of PLC networking, alternate programming languages for PLCs, international standards applied to PLCs, integration of logic and motion control in PLCs, integration of process control in...

Price: \$125.00

[ACCESS TEST CENTER](#)

[DETAILS](#)

# ACTION PLAN

⋯ Pending    ◯ In-Progress    ✓ Complete

## GOAL 1

Expand the talent pipeline through increased skill-building opportunities, education & workforce readiness for current workers

- A  **Endorse industry essential skills expectations** through providing interviews to individuals who earn a regionally recognized soft-skills report card.
  - A1  **Programmable Logic Controller Training: February 12-15, 2018**
  - A2  **Develop Mechatronics training** for incumbent workers to increase their skill level and productivity on the job.
  - A3  **Integrate the Certified Production Technician (CPT) program and certification** into short-term training to ensure workers have the foundational safety and quality skills for entry-level jobs.
- B  **Increase business competitiveness** by offering just-in-time incumbent worker trainings.

## GOAL 2

Workforce Development for emerging workers who are still completing their education

- A  **Provide information to develop school and college curriculum and programming** to align knowledge and skills taught with employer needs
  - A1  **Career Highlights at Timber Products and CareStream Health May 2, 2018**
  - A2  **Teachers Externships at Croman Corporation, Timber Products, Amy's Kitchen 7/31-8/3/17**
  - A3  **Increase work-based learning opportunities** like career highlight events, job shadows, internships, summer job opportunities and pre-apprenticeships.
  - A4  **Support project based learning in the Rogue Valley** by expanding teacher externship opportunities at manufacturing companies.
- B  **Advocate to expand manufacturing offerings** and to help build strong CTE programs regionally.
- C  **Incorporate plant tours** into the short-term training so students better understand the working environment.
- D  **Provide short-term, non-traditional (e.g., boot camp) training options** for returning veterans, women, unemployed, under-employed and out-of-school youth populations to increase the number of work-ready applicants for high-demand jobs.
- E  **Development of an employability skills rubric** to identify expectations and competencies needed to perform effectively on the job.



## GOAL 3

Increase awareness of manufacturing careers in the Rogue Valley

- A  **Endorse industry employability skills rubric** by providing support and feedback to students and teachers during any and all RAMP/school experiences.
- B  **Launch an outreach campaign** that targets all available pools of workers to inform them of short-term training and immediate job opportunities in manufacturing
- C  **Increase awareness among students, parents, teachers and administrators about career opportunities in manufacturing.**
  - C1  **Manufacturing Careers in the Rogue Valley video completed June 2016**
  - C2  **Knowledge & Skills Transfer Program video completed March 2018**
  - C3  **Careers in Gear February 2018**

## RAMP Leadership Companies

Diode Laser Concepts  
Rogue Valley Microdevices  
Carestream Health, Inc.

Medford Fabrication  
Linde Group  
Linx Technology

Timber Products Company  
Quantum Innovations