



AUTOMATION AND INDUSTRIAL TECHNOLOGY

**WE PREPARE
TECHNICIANS
FOR THE
PROFESSIONAL
WORKPLACE**



Engineering

Technicians

Production

MIDDLE SKILLS

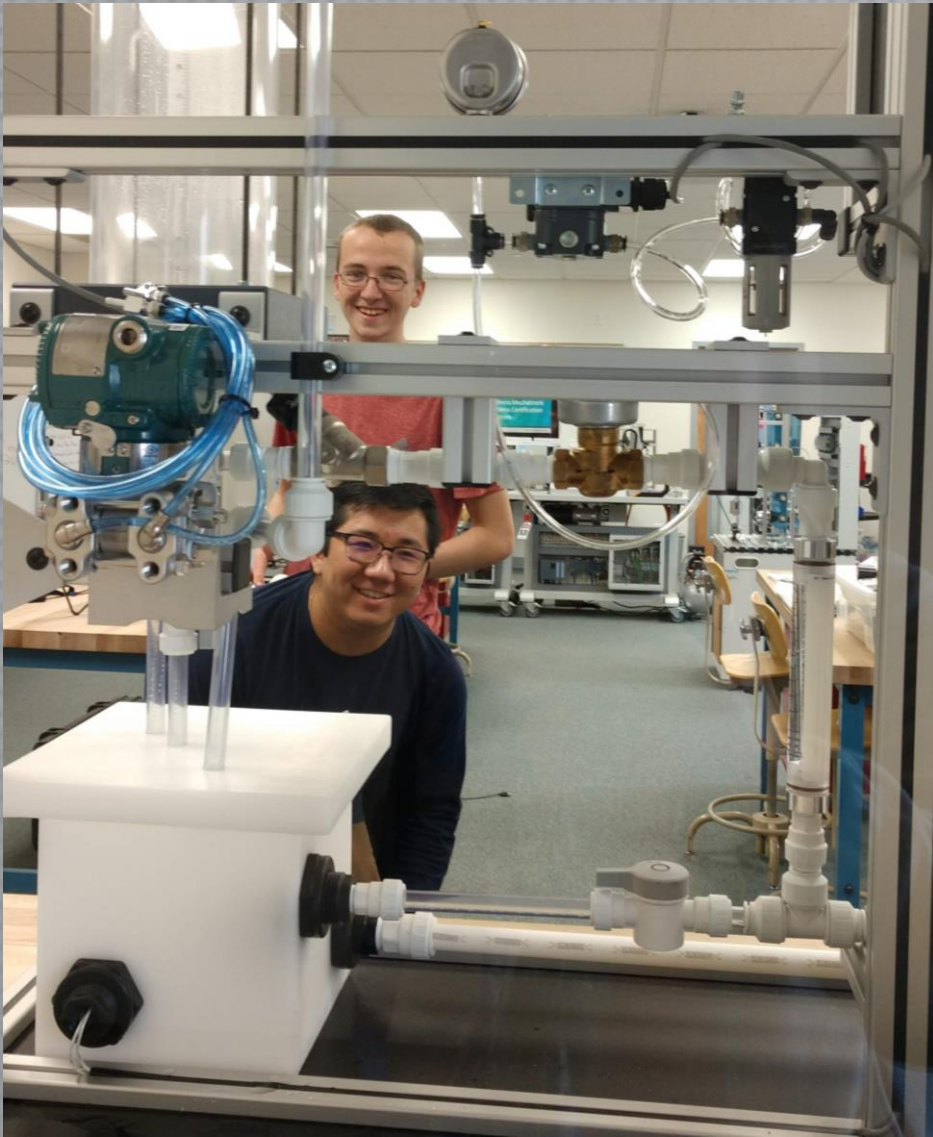
**CORE STRENGTH
OF
MODERN
MANUFACTURING,
LOGISTICS, AND
DISTRIBUTION**



TAILORED TO WORKFORCE NEEDS

**WHAT
DO YOU DO
AND
WHY
DO YOU DO IT?**

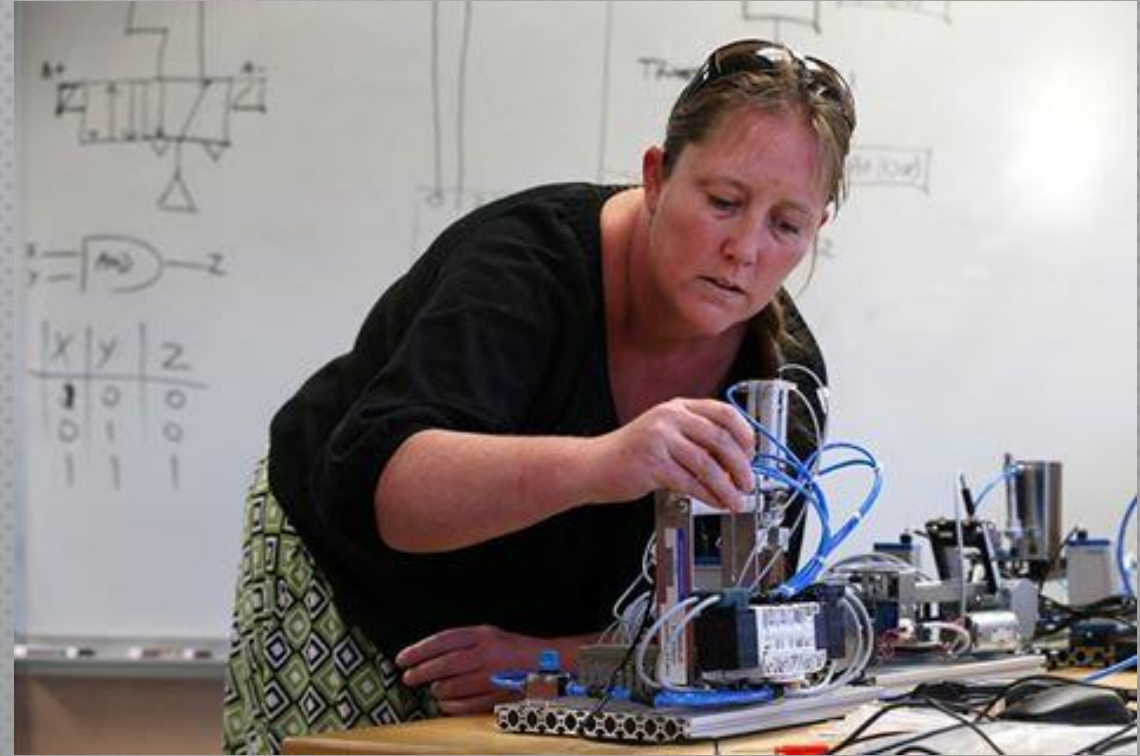




CAREER READINESS EMBEDDED

- TECHNICAL COMMUNICATION
- MATH FOR INDUSTRY
- TIME MANAGEMENT
- DOCUMENTATION

- College Courses
- Accelerated
- Hybrid
- Jump Start College/Fast Track



What We Offer

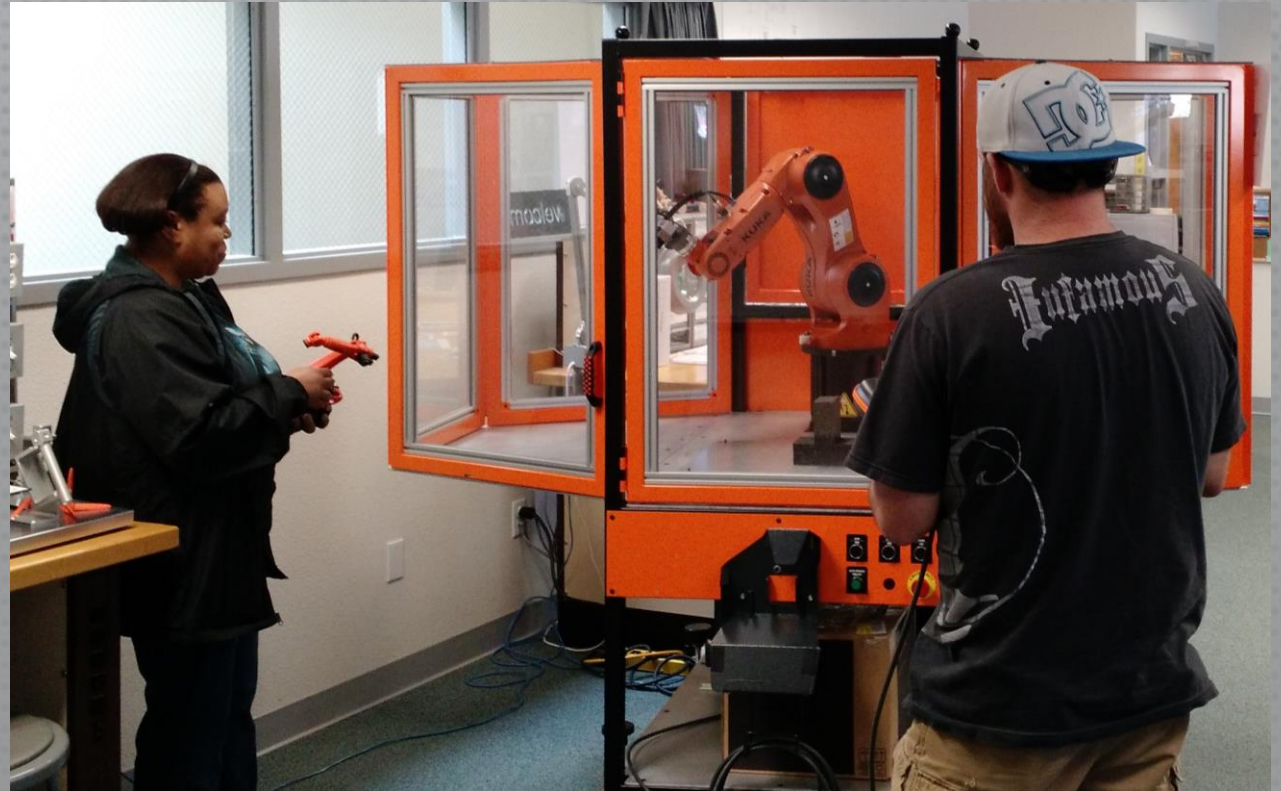
PREPARING FOR TECHNICAL CAREERS





**We prepare
Industrial Technicians
with knowledge and skills in:**

**Electricity/Electronics
Mechanical Systems
Sensors
Controls
Pneumatics
Hydraulics
Robotics**



HOW TO THINK, NOT WHAT TO THINK!



WNC DEGREES AND CERTIFICATES

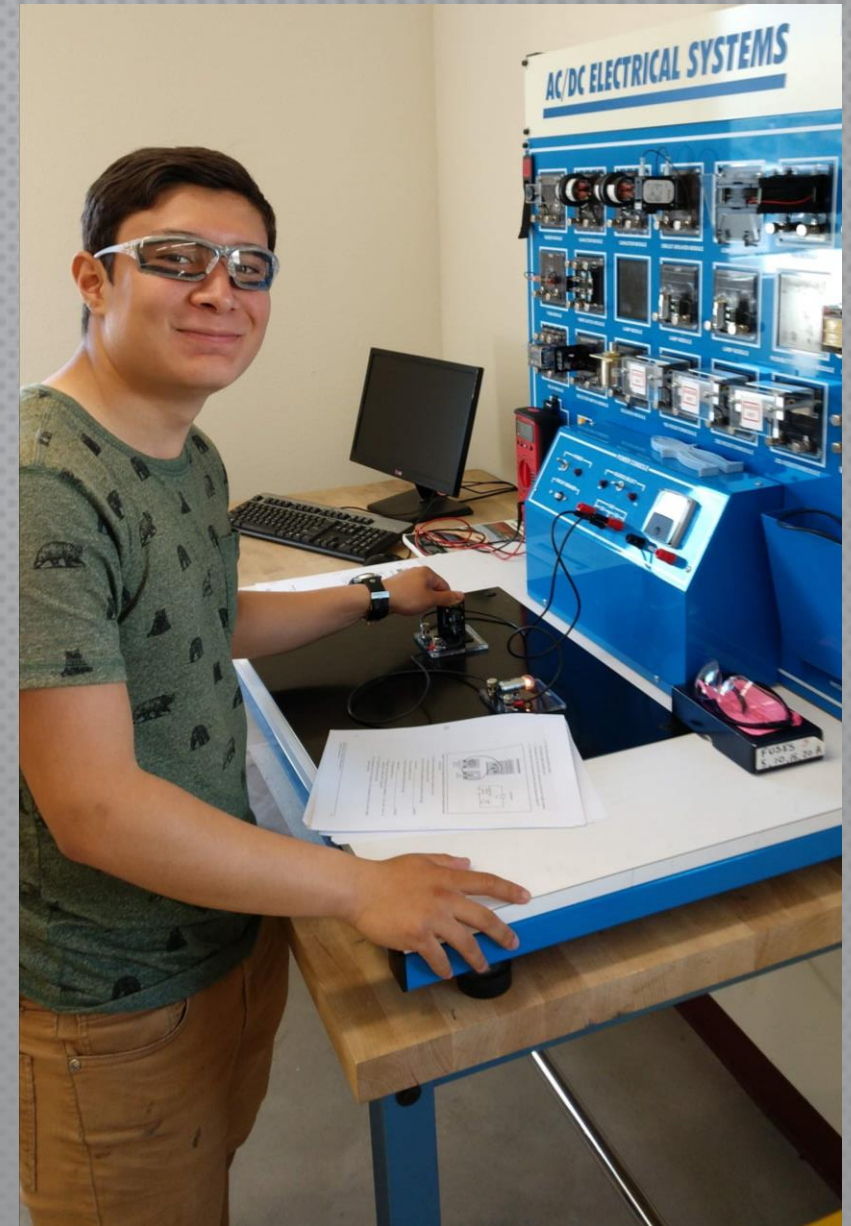
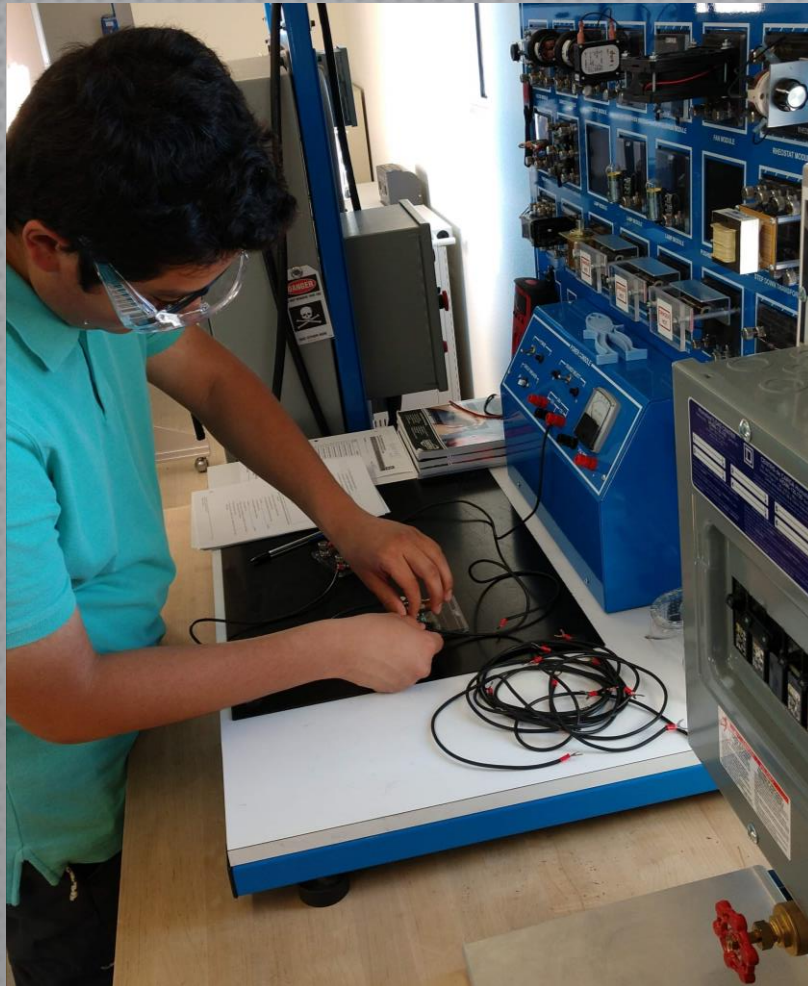
- **AAS: GENERAL INDUSTRIAL TECHNOLOGY**
 - INDUSTRIAL ELECTRONICS
- **AAS: AUTOMATED SYSTEMS**
 - MANUFACTURING TECHNICIAN
- **AAS: MECHATRONICS**
 - MECHATRONICS FOUNDATION
- ***BAS: AUTOMATION AND DIGITALIZATION!**



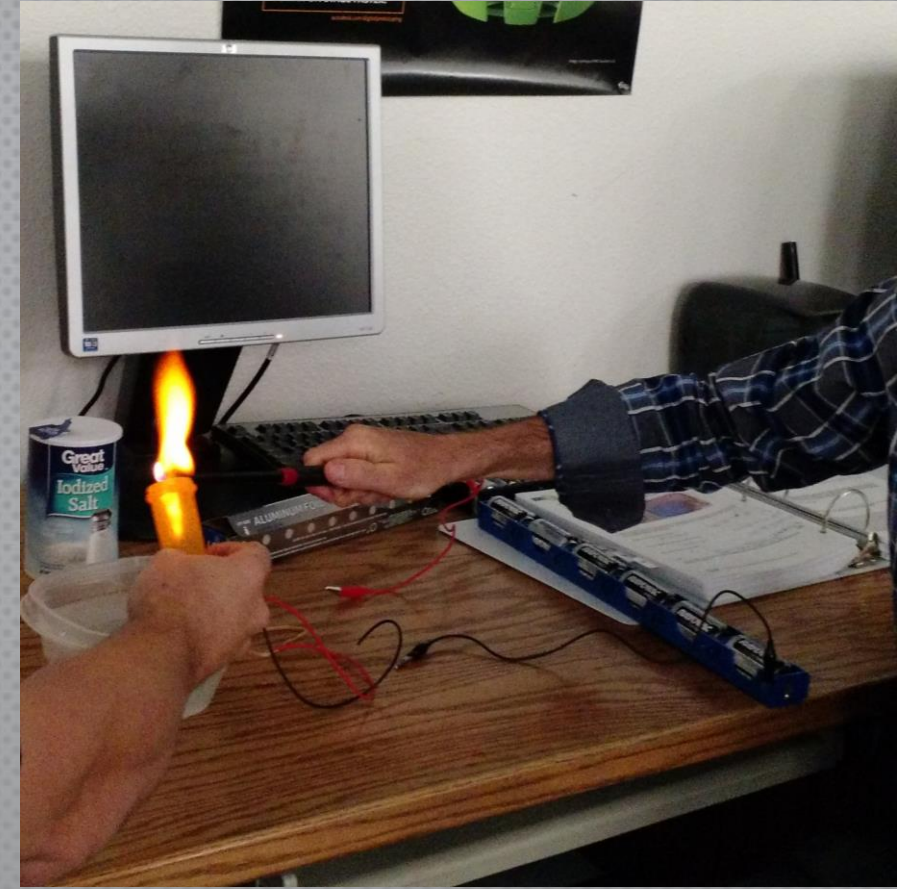


#ITSYOU

HANDS-ON LABS



PROJECTS FOR CERTIFICATION EXAM PREPARATION



ONLINE CLASSWORK

FUNDAMENTALS OF INDUSTRIAL TECHNOLOGY

Skill 5: Use a DMM to Measure Current in Series and Parallel Circuits

File Add Components Options

Step 2 of 26

Connect the series circuit with the DMM connected as shown in graphic 4.

This will allow you to measure the current between the positive terminal of the power supply and R1.

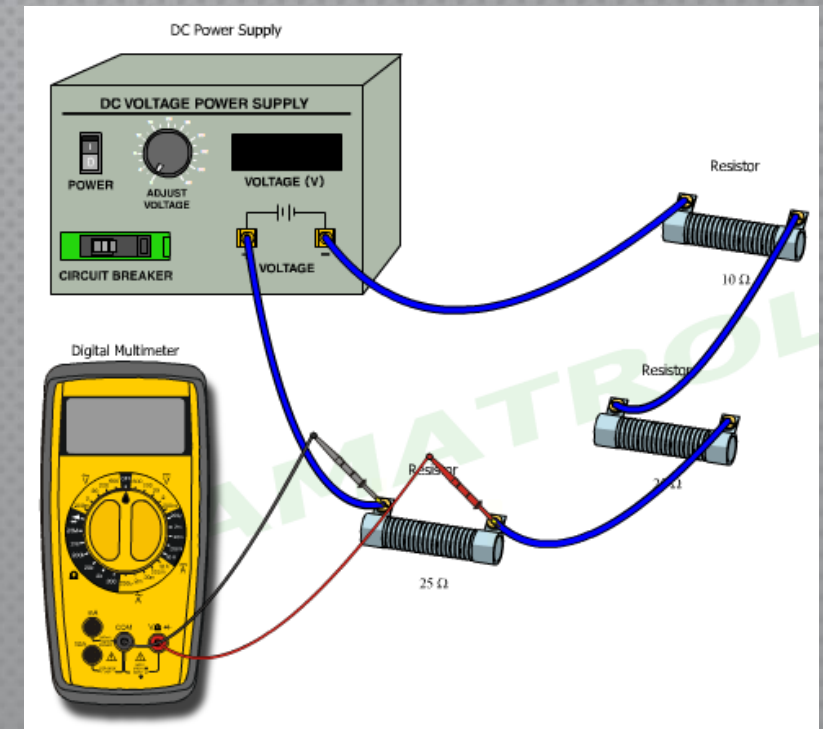
Back Next

Step Graphic

0	1	2
1	3	
2	4	

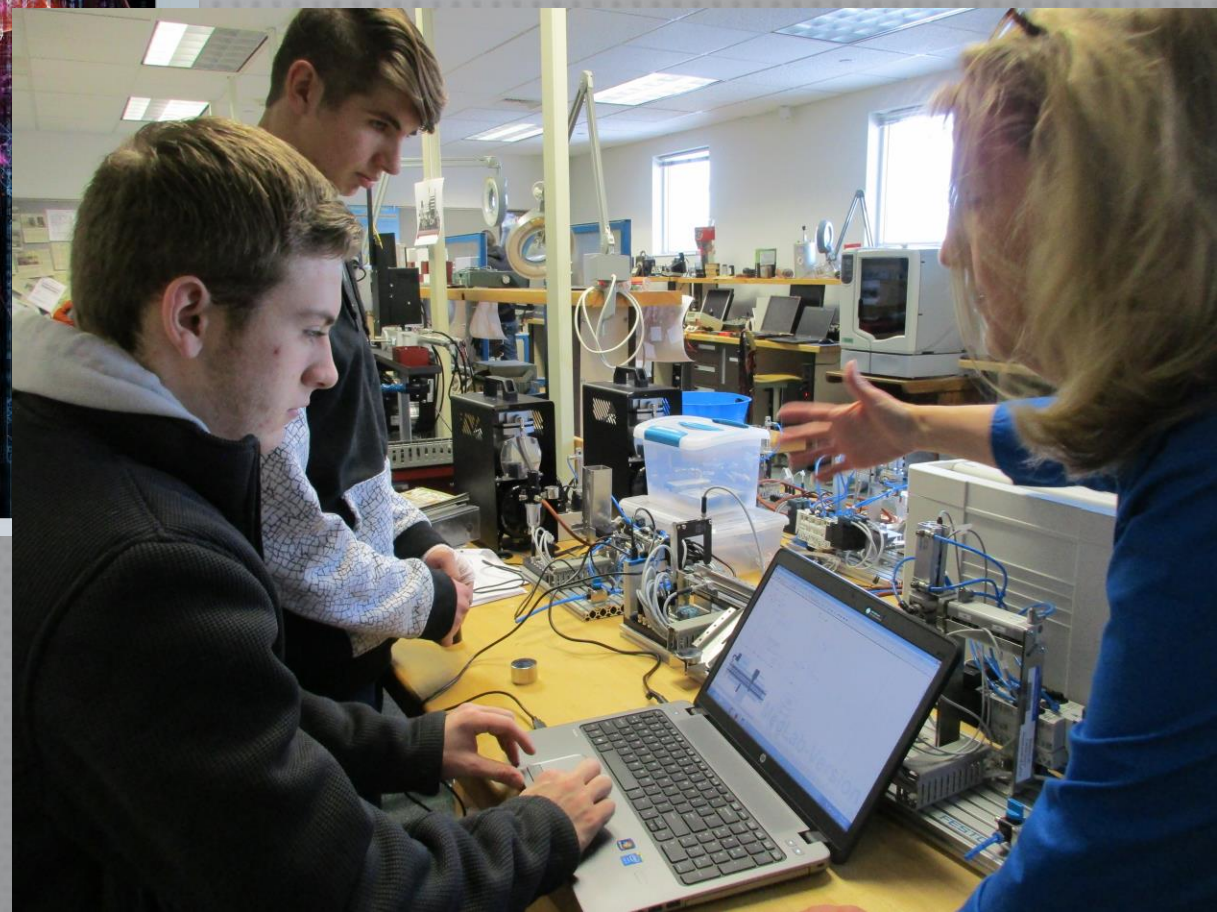
Graphic 4 Enlarge

+ ZOOM - RESET VIEW ADD LEADS REMOVE LEADS REMOVE COMPS Removing Comps...



Make it ... in Nevada

Manufacturing Technician (MT1) Certification



3 EXAMS TO CERTIFY AS AN MT1

- **MATH AND MEASUREMENT**
 - ALGEBRA AND GRAPHS
- **SPATIAL REASONING & MANUFACTURING TECHNOLOGY**
 - ELECTRICITY
 - FLUID POWER
 - CONTROLS
 - MECHANICAL SYSTEMS
- **QUALITY AND BUSINESS ACUMEN**
 - LEAN MANUFACTURING
 - SPC

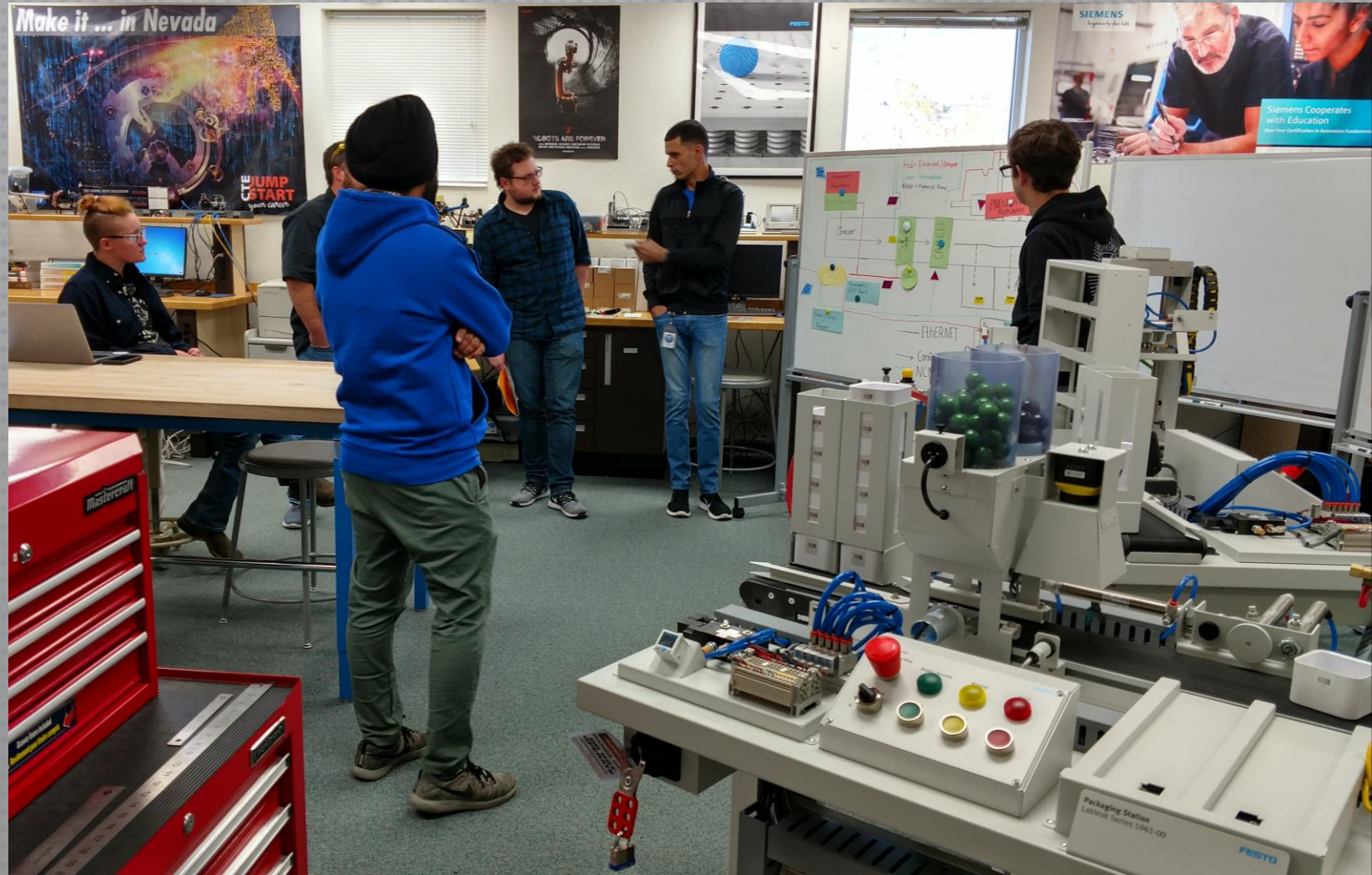
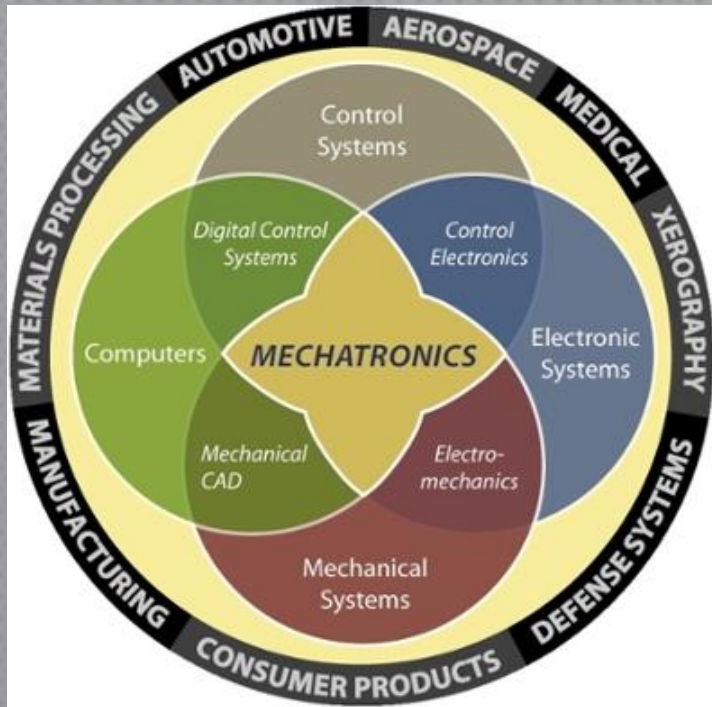
THE MANUFACTURING TECHNICIAN

MT1 CERTIFICATION





SIEMENS MECHATRONIC SYSTEMS CERTIFICATION PROGRAM (SMSCP)

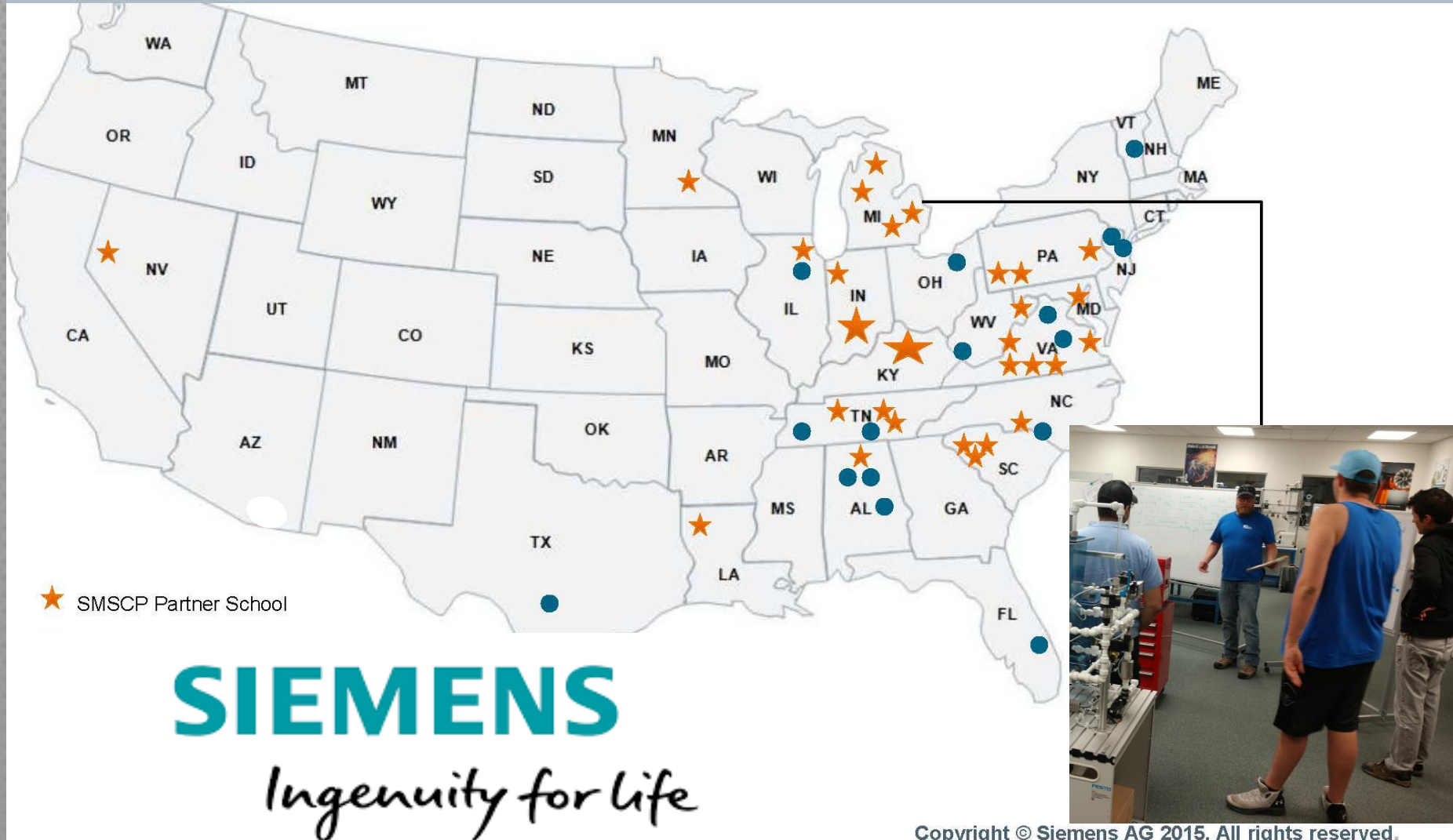


CERTIFICATION BUILT ON JOB PROFILES

- **LEVEL 1: SIEMENS CERTIFIED MECHATRONIC SYSTEMS ASSISTANT.** EMPHASIS IS PLACED ON EFFICIENTLY OPERATING COMPLEX MECHATRONIC SYSTEMS, TROUBLESHOOTING MINDSET, AND COMMUNICATION.
- **LEVEL 2: SIEMENS CERTIFIED MECHATRONIC SYSTEMS ASSOCIATE.** THE FOCUS IN LEVEL 2 IS ON SYSTEMS MANAGEMENT, TROUBLESHOOTING, INVESTIGATION, AND REPAIR.
- **WHAT'S NEXT?!**

SMSCP is implemented at 30* Educational Institutions in the US

SIEMENS



Copyright © Siemens AG 2015. All rights reserved.
Siemens Professional Education Berlin

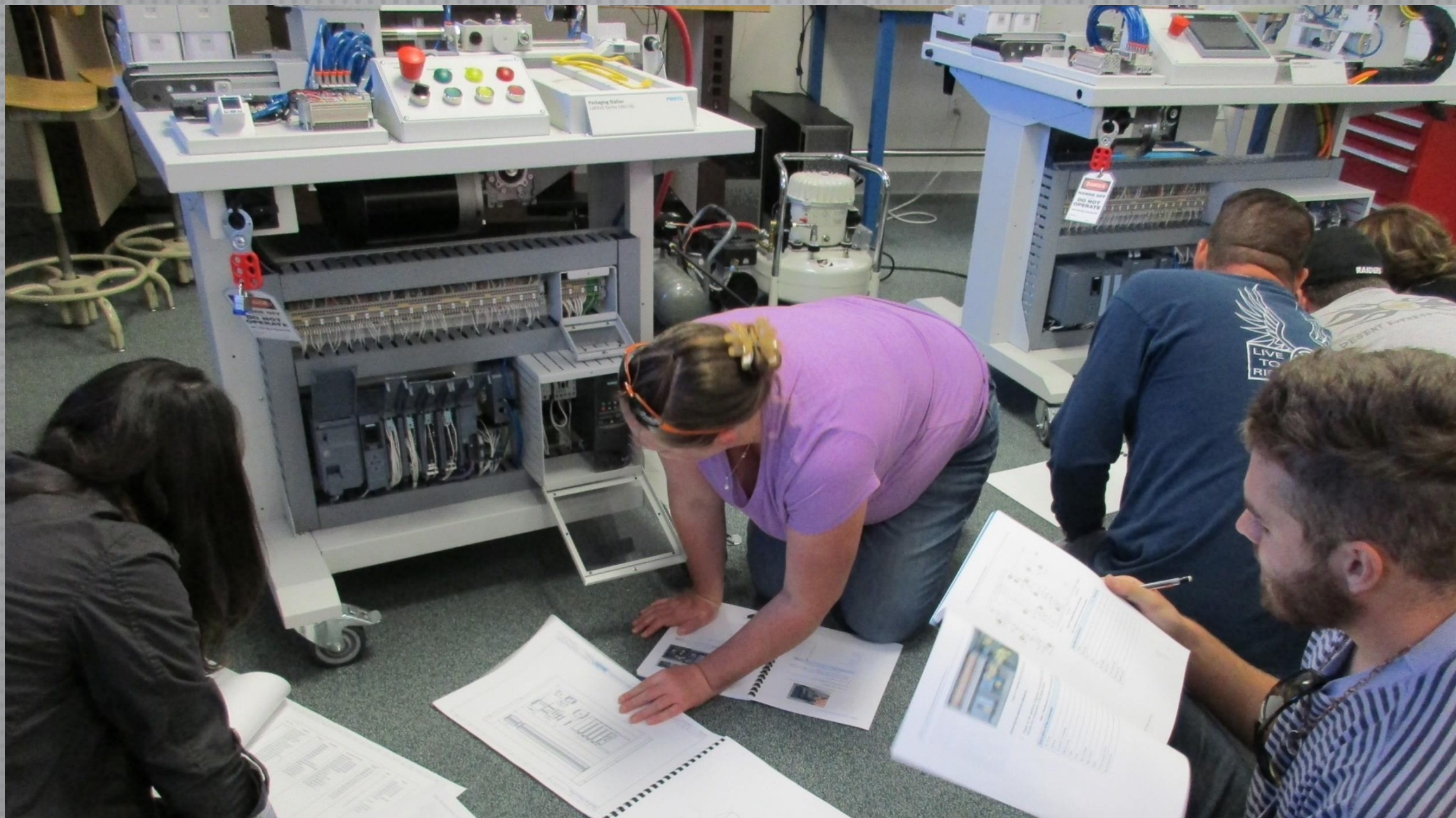
SIEMENS MECHATRONIC SYSTEMS

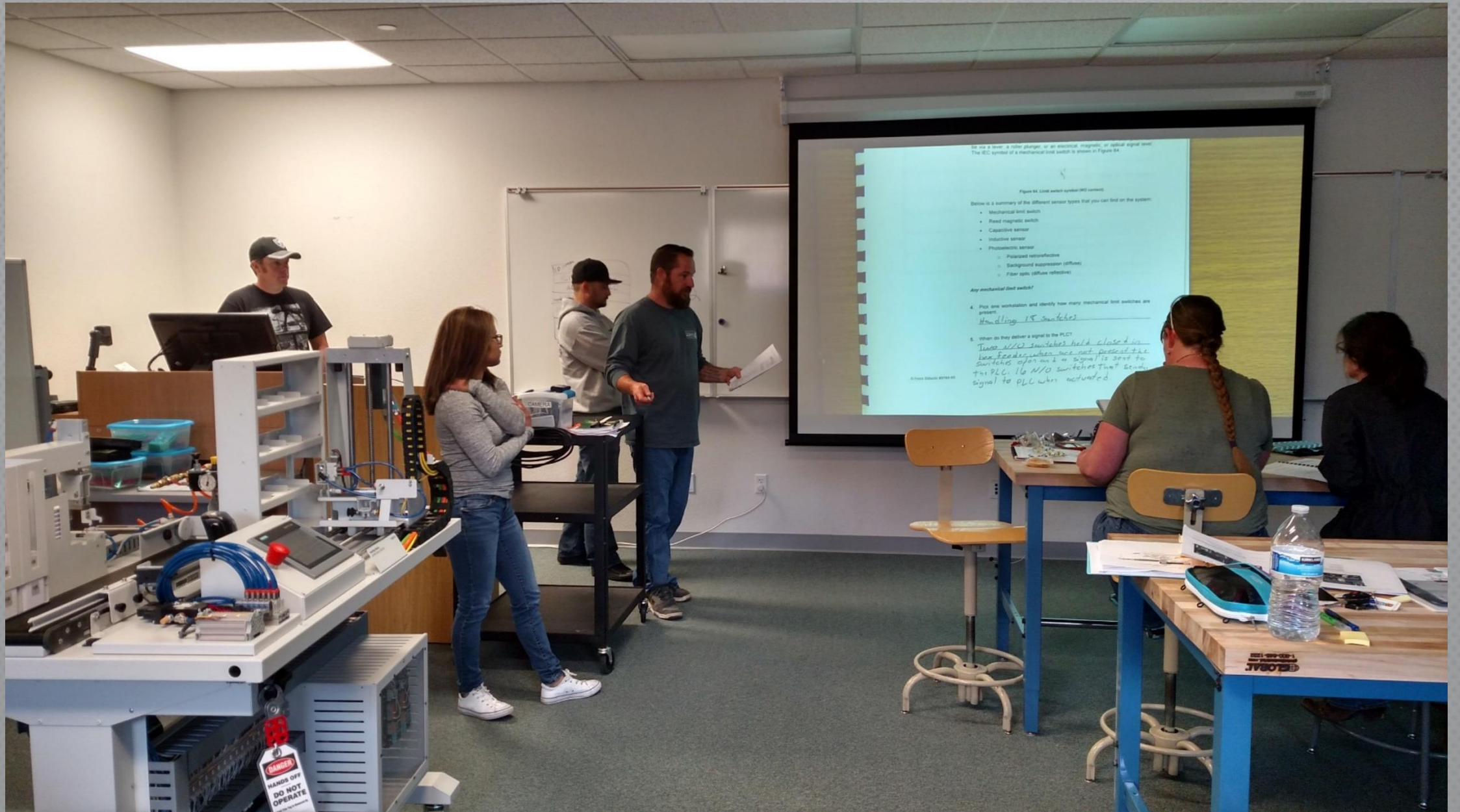
RIGOROUS

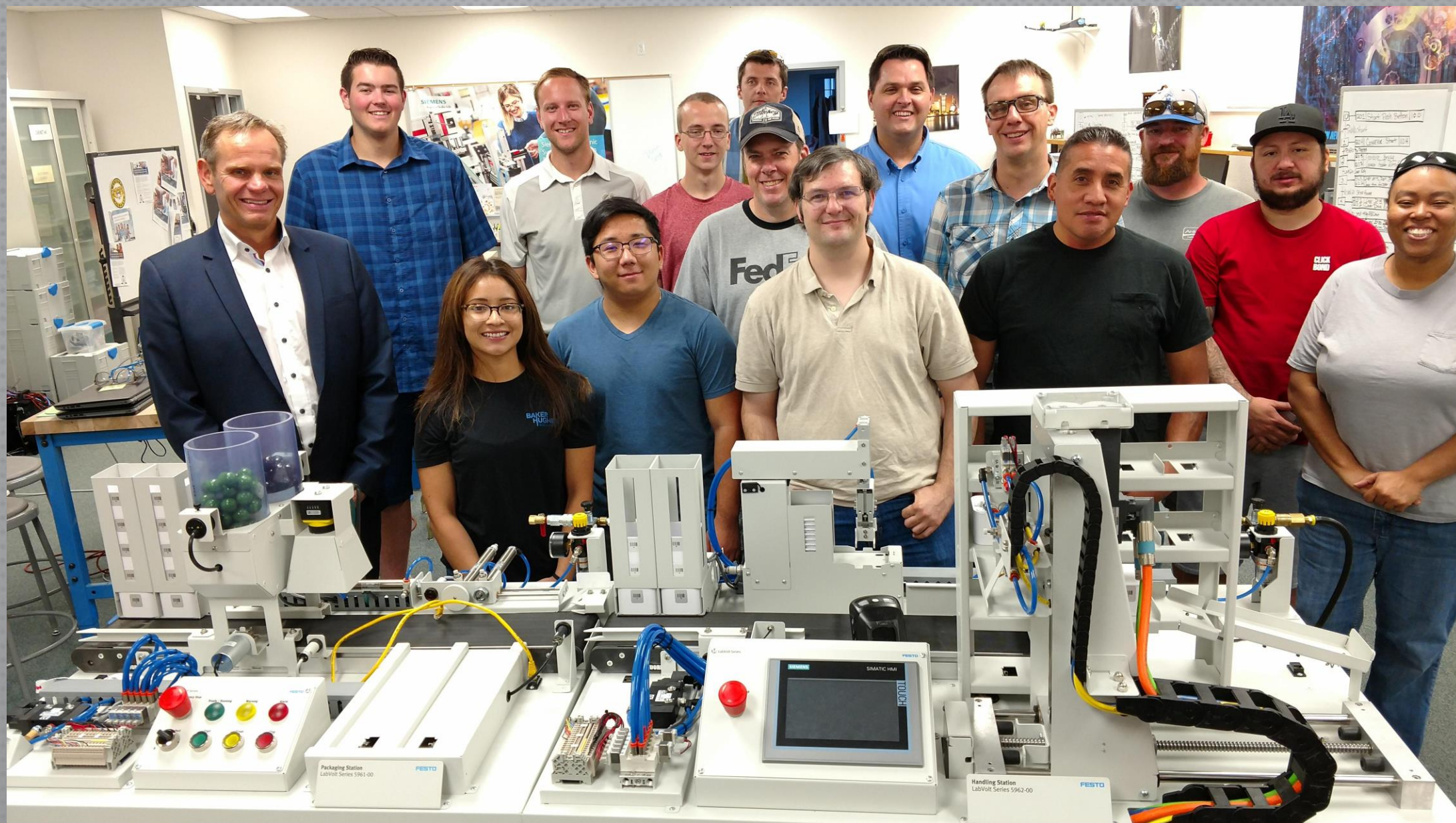
ACTIVE

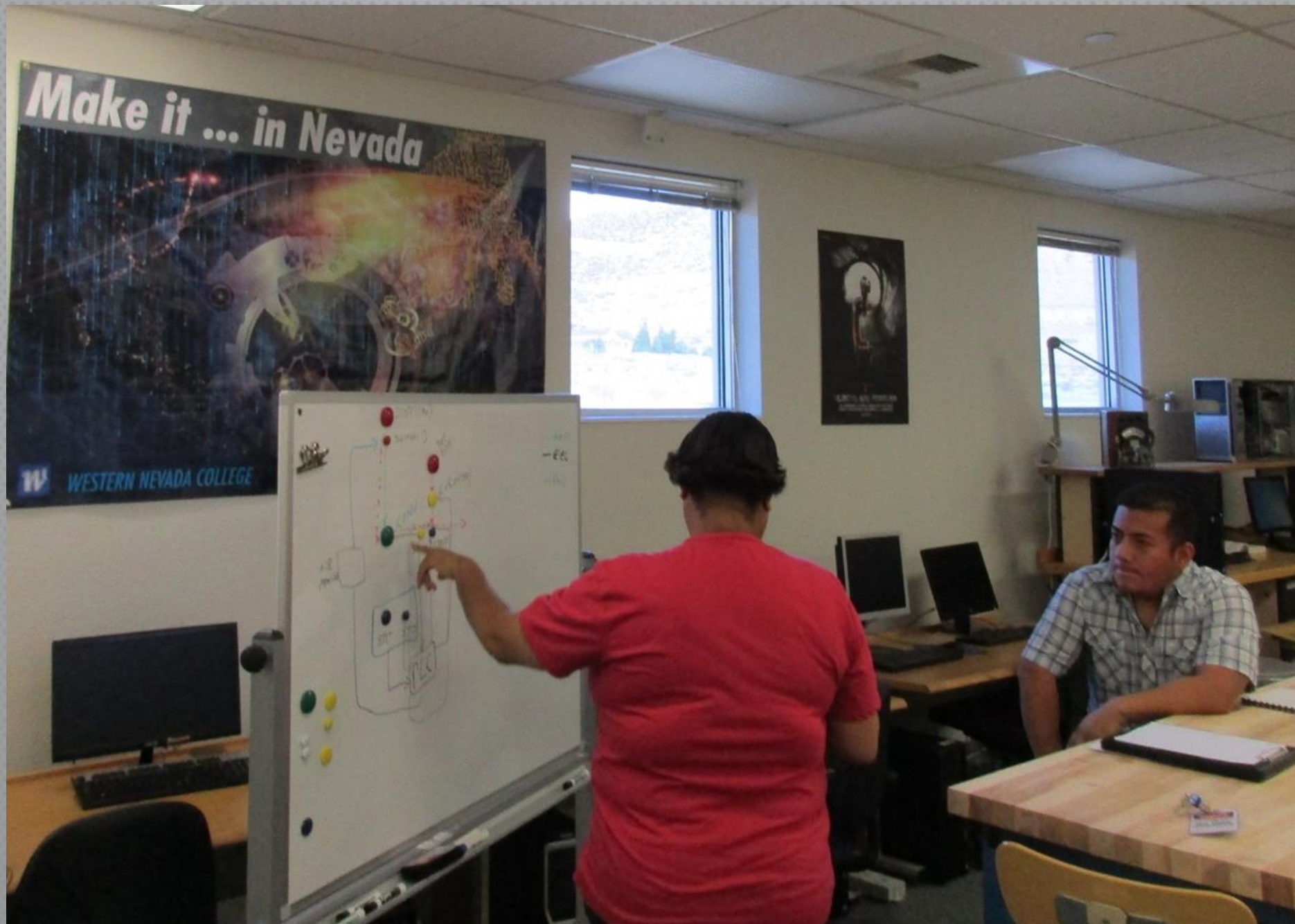
INTERACTIVE



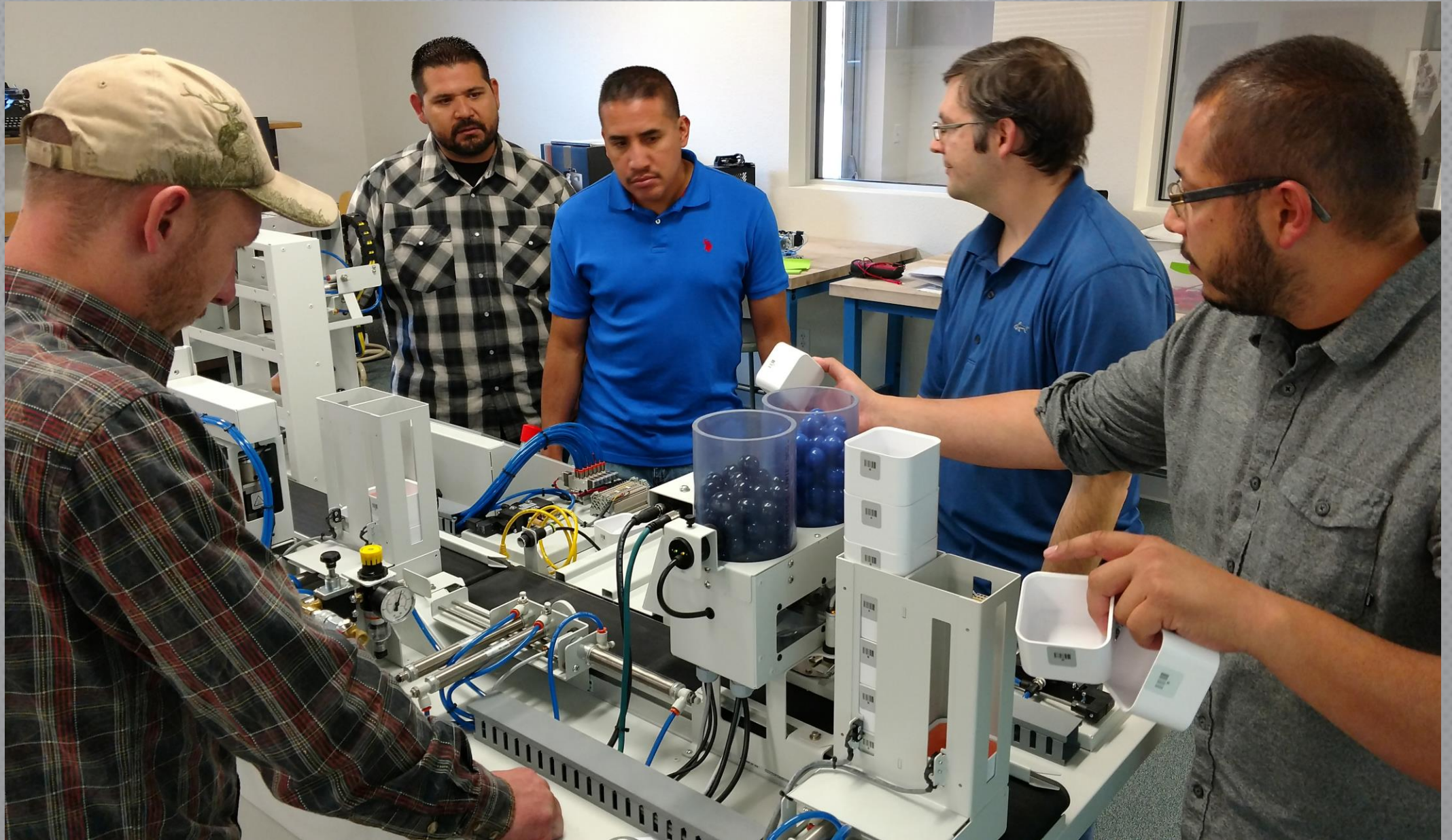




















WHAT'S NEXT?

- CONTINUED FOCUS ON RELIABILITY
- FOLLOW TRENDS IN AUTOMATION
- PREPARE THE TECHNICAL WORKFORCE FOR DIGITALIZATION



- **EMILY HOWARTH**
- **PROFESSOR, ELECTRONICS AND INDUSTRIAL TECHNOLOGY**
- ***EMILY.HOWARTH@WNC.EDU***

@WNCCTE

#MAKEITINNEVADA

