

### Flexibility Meets Mastery

Your Skills. Your Schedule. Your Success



ADVANCED MANUFACTURING

Industry Training SACA Certifications

# FREE Training!

The Smart Automation Certification Alliance (SACA) industry-driven credentials combine knowledge with hands-on skill certifications to enhance preparedness is an advanced manufacturing setting.

**Work at your own pace.** Start with a silver certification and build your skills to complete a gold certification.

### **Knowledge and Skill areas:**

- Electrical Systems
- Sensor Logic Systems
- Pneumatic Systems
- Hydraulic Systems
- Hydraulic Maintenance

- Electric Motor Control Systems
- Programmable Controller Systems
- Mechanical Power Systems
- Programmable Controller Troubleshooting

#### **STEP 1:** Silver Certification

Online courses with a written knowledge exam



#### **STEP 2:** Gold Certification

Onsite courses with a hands-on skills assessment



Scan the QR-code for more information and registration.



### To learn more and schedule training, email

CustomizedTraining@NorthwoodTech.edu

NorthwoodTech.edu/advanced-manufacturing







### **Advanced Manufacturing**

**SACA Certifications** 

# FREE Training!

### **NORTHWOOD TECH**

### ADVANCED MANUFACTURING FLEX LAB

Rice Lake Campus

Wednesday & Thursday 1:30 p.m. - 4:30 p.m.

## ST. CROIX MANUFACTURING SKILLS CENTER

Hammond, WI

Monday & Friday 1:00 p.m. - 4:00 p.m.

### **REGISTER:**

Scan the gr-code or visit:

NorthwoodTech.edu/ Advanced-manufacturing



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2025 Spring Classes	Focus	
Electrical Systems 1	Basic electrical circuits Electrical measurements Curcuit analysis	Inductance and capacitance Combination circuits Tranformers
Sensor Logic Systems	Control logic Valves and relays Limit switches, timers	Advanced systems Introduction to electronic sensors Electronic sensor applications
Pneumatic Systems 1	Power systems Basic circuits Principles of pneumatic pressure and flow	Speed control circuits DCV applications Air logic Maintenance
Hydraulic Systems 1	Power systems Basic circuits Principles of hydraulic pressure and flow Speed control Pressure control circuits	DCV applications Cylinder applications Relief valve applications Check valve applications Accumulator applications
Hydraulic Maintenance 1	Filter maintenance Fluid maintenance	Fittings and seals Hose and clamping installation
Electric Motor Control Systems 1	Introduction to electrical motor control  Manual motor control and overload protection  Control transformers	Control ladder logic Control relays and motor starters Reversing motor control Automatic input devices Basic timer control
Programmable Controller Systems 1	Connections Operation Programming Memory organization	Motor control Timers and counters Math and data move
Programmable Controller Troubleshooting 1	Power supply Device testing Processor	Systems Analog input/output
Mechanical Power Systems 1	Motor mounting Key fasteners Torque, power and efficiency	V-belts Chain drives Spur gears Multiple shaft drives

- > Silver Certification must be earned prior to being awarded the Gold Certification.
- **Each Certification is about 24 hours of course time.**



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