



 **SACA**
SMART AUTOMATION CERTIFICATION ALLIANCE

SACA Certifications Prepare You For A Career In Industry 4.0

SACA certifications' modular structure enables them to fit a wide range of individual needs, industries, and educational environments.

Certified Industry 4.0 Associate Certifications

- Basic Operations Associate
- Advanced Operations Associate
- Robot Systems Associate
- IIoT, Networking and Data Analytics Associate

Associate Level Objectives:

- Prepare for operations in a Smart Factory/Industry 4.0 environment
- Ideal for operators, IT professionals, maintenance technicians, & engineers



Certified Industry 4.0 Specialist Certifications

- Automation Systems Specialist
- Electrical Systems Specialist
- Mechanical Systems Specialist
- Control Systems Specialist
- Electro-Fluid Power Systems Specialist
- Robotics Systems Specialist
- Network Systems Specialist
- Operations Specialist
- Production Systems Specialist
- IT Systems Specialist

Specialist Level Objectives:

- Prepare for technical skill positions in a Smart Factory/Industry 4.0 environment
- Includes hands-on micro-credentials for skill-building (see outside flap of brochure)

Teacher Training

SACA is highly committed to supporting professional development of teachers to certify them in the process of examining students for a given credential & administering a certification preparation course.

Certified Industry 4.0 Professional Certifications

- Industry 4.0 Professional

Professional Level Objectives:

- Prepare for engineering positions in a Smart Factory/Industry 4.0 environment
- Focuses on design & optimization of Industry 4.0 systems
- Builds on selected micro-credentials from the Specialist Level Certifications



Certification Quality

- Industry-driven, developed by industry for industry
- Based on International Skill Standards
- Pilot-tested & analyzed to ensure quality
- Proctored hands-on evaluation & online testing.
- Annual review of standards & examinations to ensure certifications remain up-to-date

What is SACA?

The Smart Automation Certification Alliance (SACA) is a non-profit foundation whose mission is to develop and deploy modular Industry 4.0 certifications for a wide range of industries.



Our vision is to provide highly affordable, accessible certifications that significantly increase the number of individuals who possess the skills represented by these credentials, thereby ensuring that companies have the highly skilled workers they need, and individuals are prepared to be successful in an Industry 4.0 world.



**VISIT [SACA.ORG](https://saca.org)
FOR INFORMATION ON:**

- Available Certifications
- Membership Opportunities
- Teacher Training Courses

- SACA's Industry Partners
- Pilot School Opportunities



Why Join SACA?

Educational institutions and companies can both become members of SACA. As an educational member, institutions have the opportunity to become authorized certification centers, deliver free certifications to their students, and be informed of latest developments in Industry 4.0 technology. Educational membership is available for an annual fee scaled for high schools and post-secondary institutions.

As an industry member, companies have the opportunity to impact the standards and future direction of the certifications, promote their leadership in Industry 4.0 education, and provide scholarships to sponsor educational institutions and teachers when they start new certification programs in Industry 4.0. Industry membership is available for an annual fee, which they can designate to sponsor schools.



“Technology disruption is widening the gap between student learning and industry relevance of learning. At the same time, it is also shortening the shelf life of degrees and opening up variable pathways of learning. To narrow this gap we are actively participating with the Smart Automation Certification Alliance and other industry stakeholders working alongside education to create relevant standards around Industry 4.0 and more importantly access to relevant stackable learning.”

Michael Cook, Director Global Academic Partnerships, Rockwell Automation

Micro-Credentials

SACA's Specialist Level Certifications are modular, consisting of a series of micro-credentials. These include core credentials that are applicable to all companies and elective micro-credentials for regional or specific company needs.

As an example, the micro-credentials for Certified Industry 4.0 Automation Systems Specialist are:

Core Micro-Credentials

- C-201** Electrical Systems 1
- C-202** Electric Motor Control Systems 1
- C-203** Variable Frequency Drive Systems 1
- C-204** Motor Control Troubleshooting 1
- C-205** Sensor Logic Systems 1
- C-206** Electrical System Installation 1
- C-207** Programmable Controller Systems 1
- C-208** Programmable Controller Troubleshooting 1
- C-209** Pneumatic Systems 1
- C-210** Mechanical Power Systems 1

Certified Industry 4.0 Automation Systems Specialist

Install, Troubleshoot, Program, Maintain Factory Automation 4.0 Systems

- C-211** Industry 4.0 Total Productive Maintenance Management
- C-212** Ethernet Communications 1
- C-213** Smart Sensor & Identification Systems 1
- C-214** Smart Factory Systems 1
- C-215** Robot System Operations 1
- C-216** Robot Systems Integration 1

Elective Micro-Credentials

- C-255** Hydraulic Systems 1
- C-256** Hydraulic Maintenance
- C-257** Process Control Systems 1
- C-258** Process Control Troubleshooting 1
- C-259** Rigging Systems 1
- C-260** Rigging Systems 2