

ISA's Certified Automation Professional (CAP) Program Makes a Difference



Greg Lehmann, CAP, is a Controls Systems Specialist at Washington Division of URS Corporation. Lehmann states "The CAP program benefits the professional, their employer, and the end-user. The benefits to the professional may be a promotion, a raise, job portability, and an increased feeling of self-worth. The company benefits from the CAP program by being provided a platform by which they are able to validate an employee's qualifications. Hiring companies with CAP-certified employees benefits end-users by improving the quality of service that they are contracting."

"It [CAP] gives you an edge. You know that you are among the best engineers in the world."

-Hamad Balhareth, CAP, Engineer III, Saudi Aramco



"The changing landscape in American corporations and so much work shifting offshore creates a very competitive environment," states **Andy Mobley**, CAP, a Systems Safety Engineer with 3M (Retired) with over thirty years in instrumentation, controls, and automation. Mr. Mobley recommends the CAP as a means for automation professionals to distinguish themselves in the industry.

"If I see a CAP certification on a résumé, that to me is the indication that person is interested in developing themselves and reaching their potential. That's one of the key characteristics I look for when making a hiring decision."

-Nicholas Sands, CAP, Process Control Technology Manager, DuPont



"I think certifications in technical areas are one of the ways that I can keep up with developments in my field," said **Judith Lesslie**, CAP, ISA84 SFS, CFSE, a Process Safety Engineer at BP. "I absolutely recommend that anyone working in a full time role in the automation field should consider this certification [CAP] to gain a competitive edge and to make sure they are current in the field."

Join this group of industry leaders—get certified today!

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International Society of Automation
67 Alexander Drive
P.O. Box 12277
Research Triangle Park, NC 27709



- Sets the standard for the automation professional
- Promotes safety and improves productivity
- Establishes your professional credentials
- Prepares you for additional job responsibilities
- Improves ROI by impacting mission critical decisions
- Proves that you're an automation leader

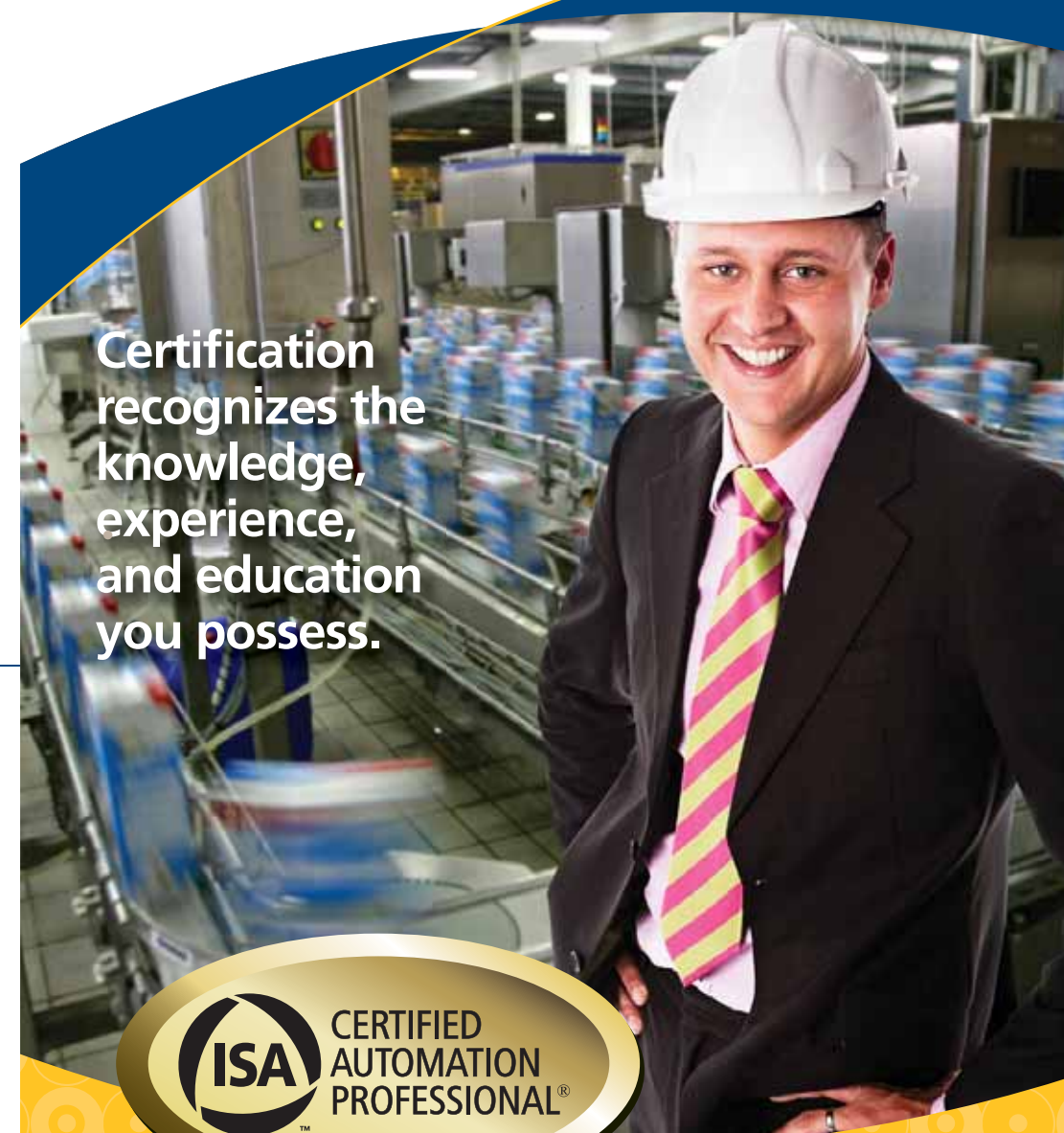
Get started on YOUR path Today!

"This is an elite group that truly gets the full picture. And that's really what CAP is all about."

**-Dean Ford, CAP,
Director of Enterprise Application Integration,
Maverick Technologies**



Standards
Certification
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Certification recognizes the knowledge, experience, and education you possess.



Start down the path to recognition

Setting the Standard for Automation™

Benefits of the ISA Certified Automation Professional® (CAP®) Program

Since its beginning, ISA's Certified Automation Professional (CAP) program has been identified as a way to enhance credibility and self-image and to encourage life-long learning and professional development.

ISA's CAP program benefits employers and automation professionals by promoting career development and recognition for individuals, and by providing measurable hiring qualifications for managers.

The CAP program recognizes and documents an individual's experience, knowledge, and education—and provides an objective, third-party assessment of his or her skills.

Employers value the Certified Automation Professional (CAP) program for its development of a better trained workforce, promotion of safe work practices, use as a qualification tool for hiring and advancement decisions, and enhancement of their company image with internal and external customers. Industry managers and leaders in the field recognize that employing CAPs demonstrates a commitment to a safer and more productive workplace.

For individuals, CAP:

- Enhances professional credibility
- Serves as portable proof of ability
- Enriches self-image
- Improves career opportunities—promotion, pay increases, job portability
- Encourages life-long learning and professional development

For employers, CAP:

- Develops a better trained workforce and promotes safe practices
- Provides documented evidence that employees are qualified to do their jobs
- Encourages employees to remain current
- Serves as a qualification tool for hiring and advancement decision making
- Enhances company image with internal and external customers

“If you pass the CAP exam, you have a good, broad background in the automation industry.”
—Paul Galeski, CAP, President, Maverick Technologies

Certification

ISA certification provides an objective, third-party assessment and confirmation of a person's skills, and gives them the opportunity to stand out from the crowd and be recognized. ISA currently offers two certification programs: Certified Automation Professional® (CAP®) and Certified Control Systems Technician® (CCST®).

ISA Certified Automation Professional (CAP)

CAPs are responsible for the direction, definition, design, development/application, deployment, documentation, and support of systems, software, and equipment used in control systems, manufacturing information systems, systems integration, and operational consulting. CAPs work in process automation and manufacturing automation industries around the globe.

“This is an individual who can talk to a mechanical engineer, an electrical engineer—sometimes a chemical engineer—and a software engineer, and bring all of these things together.”
—Jacob Jackson, CAP, Control Systems Engineer, Waveguide Consulting

Technical Topic Categories

Basic Continuous Control

Process Instrumentation • Analytical Instrumentation • Continuous Control • Control Valves • Analog Communications • Control System Documentation • Control Equipment

Basic Discrete, Sequencing, and Manufacturing Control

Discrete Input & Output Devices and General Manufacturing Measurements • Discrete and Sequencing Control • Motor and Drive Control • Motion Control

Advanced Control Topics

Process Modeling • Advanced Process Control • Control of Batch Processes • Environmental • Environmental Monitoring • Building Automation

Reliability, Safety, and Electrical

Alarm Management • Reliability • Process Safety and Safety Instrumented Systems • Electrical Installations • Safe Use and Application of Electrical Apparatus

Integration and Software

Digital Communications • Industrial Networks • Manufacturing Execution Systems and Business Integration • System and Network Security • Operator Interface • Data Management • Software • Custom Software

Deployment and Maintenance

Operator Training • Checkout, System Testing, and Startup • Troubleshooting • Maintenance • Long-Term Support and System Management

Work Structure

Automation Benefits and Project Justifications • Project Management and Execution • Interpersonal Skills

CAP Eligibility Requirements

To become an ISA CAP you must meet minimum requirements for work experience and education and pass a multiple choice exam. The following are acceptable work experience and education requirements:

If you hold a four-year technical degree:

- **Four-year academic degree** from an accredited educational institution in a technical or technology field including engineering, chemistry, physics, math, etc.
- **Related work experience**, meaning a minimum of five (5) years of work in the automation field. One (1) year of work experience means 1,500 hours of active employment. A cumulative total of 7,500 hours of documented work experience is required during the five-year period prior to your application date. Passing the CAP Associate Recognition Program (www.isa.org/CAP/Associate) exam counts as one (1) year of work experience.

If you hold a two-year degree or do not have a degree:

- **Related work experience**, meaning a minimum of ten (10) years of work in the automation field. One (1) year of work experience means 1,500 hours of active employment. A cumulative total of 15,000 hours of documented work experience is required during the ten-year period prior to your application date. An Associates Degree in automation, or a related technology, from an accredited educational institution will count as two (2) years of work experience.
- **Evidence of responsible charge position** from two (2) work-related references. These should be submitted to demonstrate that the applicant has had at least two (2) years experience in automation in a position of responsible charge. Each reference should be completed and signed by a former supervisor or someone who is in a position to attest to the applicant's responsibilities. At least one of the references must be signed by a current or former supervisor.

Note: Work experience and educational periods may not overlap when compiling the total number of years required for this certification.

How to Apply

1. Visit the CAP website at www.ISA.org/CAP to apply online or download a copy of the CAP application.
2. Review the CAP Handbook and list of available study resources—including the CAP study guide, CAP review course, and CAP Learning System—to prepare for the exam.
3. Submit your completed application to ISA by the next testing window application deadline. For details on testing windows, visit www.isa.org/examschedule.