

Siemens Mechatronic Systems Certification Program
(SMSCP)

Job Profile Level 2

[siemens.com/sitrain-smscp](https://www.siemens.com/sitrain-smscp)

Siemens Certified Mechatronic Systems Associate

A Siemens Certified Mechatronic Systems Associate will function as a highly skilled technician who can work with modules and components in complex mechatronic systems as well as be able to assess and analyze the system as a whole. A certified Associate can manage, investigate, repair and troubleshoot mechatronic systems, with the aim of operational efficiency and cost and process control. They would usually carry out their work at production facilities, workshops, or in service sites that use complex mechatronic systems.

Job skills and activities include:

- Understanding and analyzing the technical specification of mechatronic systems, subsystems, modules and components;
- Deriving and determining parameters for mechatronic systems and system elements;
- Measuring, interpreting and analyzing electrical, PLC/microcontroller and mechanical values;
- Assembling and installing tools and hardware systems;
- Performing scheduled and preventive maintenance;
- Installing, implementing and modifying software tools used in mechatronic systems;
- Using troubleshooting skills to identify, foresee and prevent possible problems, conflicts and failures, and to systematically and intelligently make repairs;
- Programming mechatronic modules and systems, especially PLCs;
- Implementing PLC networks, including configuration and data transfer using bus systems;
- Analyzing system logs;
- Incorporating relevant technical literature into understanding of system operation and using this information to propose procedural and operational changes;
- Observing and incorporating safety standards;
- Applying knowledge of process control technology, including all regulator types;
- Observe, follow, and influence cost control and process efficiency procedures;
- Executing all of the above as an effective member of a team.

Siemens Certified Mechatronic Systems Associates can see the system as a whole, but can also dive in and work with particular system components. More importantly, they understand how the components work together. Compared to those certified at Level 1, they will be both a high- and low-level mechatronic systems expert.

Do you have any questions?

We will be happy to advise you personally!

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