

# Level 1 Siemens Certified Mechatronic Systems Assistant

**Aligned Program of Study:** Mechatronics

## Description

The Mechatronic Systems Assistant certification is the first of three certifications in the Siemens Mechatronics Systems Certification Program (SMSCP). Each certification is based upon a specified, industry-driven job profile which helps an employer determine where this person can be best placed within the organization. A Siemens Certified Mechatronic Systems Assistant will function as a well-grounded machine operator in a complex system, with responsibility for efficient operation of the equipment with minimal down-times. Normally a Siemens Certified Mechatronic Systems Assistant would carry out their work at plant assembly sites, workshops or in connections with service operation which utilize complex mechatronic systems.

There are four main focuses to this certification:

- Electrical Components
- Mechanical Components and Electrical Drives
- (Electro) Pneumatic and Hydraulic Control Circuits
- Digital Fundamentals and PLCs

Once a student has been taught all four focus areas, he/she should be well-prepared to sit for the Level 1 certification examination. This will be administered through a neutral testing center. Only by successfully passing the Level 1 Certification Examination will the student be awarded the certification of Siemens Certified Mechatronic Systems Assistant.

## Certification Information

Test Owner

SIEMENS AG, Siemens Technik Akademie Berlin

Nonnendammallee 104, D-13629

Berlin, Germany

Phone: +49 30 386 26042

Email: [info@siemens-certifications.com](mailto:info@siemens-certifications.com)

## Registration Procedures

Only Siemens-certified Partner Schools can offer the SMSCP program and the Siemens-administered certification exams to students. The Certified Partner Schools who meet the SMSCP institutional requirements and have an active agreement on file with Siemens. SMSCP partner schools must have a mechatronic training system on site. This system must meet certain requirements and feature a number of specific components. If you want to get a school certification, contact Siemens at: [info@siemens-certifications.com](mailto:info@siemens-certifications.com). Or information can be found at: [http://www.siemens-certifications.com/content/0/9131/9147/9180/3136\\_SMSCP\\_Schools\\_mit%20mail\\_ohne\\_web.pdf](http://www.siemens-certifications.com/content/0/9131/9147/9180/3136_SMSCP_Schools_mit%20mail_ohne_web.pdf).

Teachers must be certified in order to certify students. Teachers will be trained within the Siemens framework and then implement this newly acquired hands-on knowledge and competencies within one of the three Levels at an SMSCP partner school. Training begins with the compulsory Paradigm Week which is followed by the respective Level Content Weeks. A teaching background in Mechatronics or Electrical or Mechanical Engineering is required.

<https://new.siemens.com/global/en/products/services/industry/sitrain/smscp.html#Informationforinstructorsandtrainingdates> and <https://assets.new.siemens.com/siemens/assets/api/uuid:eb228d9d-e066-4596-82c3-7b5055be4f9b/version:1566568870/smscp-instructor-certifications.pdf>

### Preparing to offer the certification

Materials and Resources

There are a variety of materials and resources found at Siemens website: <http://www.siemens-certifications.com/content/0/9131/9147/>

The program overview is found at [http://www.siemens-certifications.com/content/0/6/7/3391/2876\\_Overview%20Document\\_Level1\\_2.pdf](http://www.siemens-certifications.com/content/0/6/7/3391/2876_Overview%20Document_Level1_2.pdf)

### Vendors with Data Sharing MOU with TDOE

A partner school must be used for this certification.	
Vendor	Contact Information
Motlow State Community College	<a href="http://www.mscc.edu">http://www.mscc.edu</a>

Below is a list of Partner Schools that do not have data sharing MOUs with TDOE - therefore the burden of proof to provide evidence of earning the certification will be on the school system.

Austin Peay State University  
<https://www.apsu.edu>

Nashville State Community College  
<https://www.nsccl.edu>

Cleveland State Community College  
<http://www.clevelandstatecc.edu>

Roane State Community College  
<https://www.roanestate.edu>

Middle Tennessee State University  
<http://www.mtsu.edu>

Volunteer State Community College  
<https://www.volstate.edu>