



## Siemens Mechatronic Systems Certification Program

# Want to join the next generation of high-tech manufacturing leaders?

### Receive state-of-the-art training

The School of Mechatronic Systems Engineering at Simon Fraser University is launching the **Siemens Mechatronic Systems Certification Program (SMSCP)** – a comprehensive industry skills certification program offered in collaboration with Siemens, one of the world's largest high-tech manufacturers.

Designed for today's industrial workforce, the program focuses on the **System Approach**, a holistic teaching method that adopts a learn-by-doing technique. Participants are introduced to a complete mechatronic system from day one, then proceed to examine the various components keeping the "big picture" in mind.

### Become industry-certified by Siemens

Graduates receive an internationally recognized industrial certificate from Siemens that will provide them with a clear advantage in pursuing a career in automation and manufacturing.

### Build a highly-demanded industrial skill set

Through hands-on training, the SMSCP creates highly talented professionals who can easily meet the challenges of high-tech automation industries. In addition to expanding technical knowledge and troubleshooting skills, participants will receive extensive training on state-of-the-art industrial equipment to develop technical expertise with various components of complex mechatronic systems including: electrical and mechanical components; sensors and actuators; hydraulics and pneumatics; and programmable logic controllers (PLCs).

### Train with certified professional engineers

The courses are taught by professional instructors who:

- Have 30 years of combined experience;
- Are certified professional engineers by the Association of Professional Engineers of British Columbia (APEGBC); and
- Are certified instructors by Siemens in Germany.

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## Program at a glance

The SMSCP focuses on hands-on professional training to help participants understand the underlying principles of complex mechatronic systems.

We are now offering two SMSCP qualification levels:

### LEVEL 1

## Siemens Certified Mechatronic Systems Assistant

Emphasis is placed on efficiently operating complex mechatronic systems, troubleshooting and foreseeing problems. Participants will also be able to interpret complex technical design schematics for such systems.

- COURSE 1** Electrical Components
- COURSE 2** Mechanical Components and Electrical Drives
- COURSE 3** (Electro) Pneumatic and Hydraulic Control Circuits
- COURSE 4** Digital Fundamentals and PLCs

### LEVEL 2

## Siemens Certified Mechatronic Systems Associate

The focus in Level 2 is on systems management, investigation, repair and troubleshooting.

- COURSE 1** Process control technologies
- COURSE 2** Introduction to Totally Integrated Automation
- COURSE 3** Automation systems
- COURSE 4** Motor control
- COURSE 5** Mechanics and machine elements
- COURSE 6** Manufacturing processes

# Find out more and apply

Visit [mse.sfu.ca/siemens](https://mse.sfu.ca/siemens) for full program details and application deadlines.



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