



# Siemens Mechatronic Systems Certification Program (SMSCP)

---

Simon Fraser University  
School of Mechatronic Systems Engineering

**SFU**  
SIMON FRASER UNIVERSITY  
SURREY

## Introduction

The Siemens Mechatronic Systems Certification Program (SMSCP) is an internationally recognized industry training program. The main goal of the program is to train participants on state-of-the-art industrial equipment and endorse successful candidates with world-renowned certificate from Siemens, the largest industrial manufacturing company in Europe.

SMSCP at SFU Mechatronics consists of two levels, each level consists of multiple courses as shown in the table below. The recommended duration in hours is designed for high school students with no prior technical experience. The time frame for each course can be compressed to a minimum of 40 hours per course (i.e. 4 weeks for Level-1 and 6 weeks for Level-2).

Level	Course	Recommended Duration
Level-1 Siemens Certified Mechatronic Systems Assistant*	1. Electrical	40 hours
	2. Mechanical	40 hours
	3. Pneumatics and Hydraulics	40 hours
	4. Digital Fundamentals and PLCs	40 hours
	<b>Recommended Total</b>	<b>160 hours</b>
Level-2 Siemens Certified Mechatronic Systems Associate*	1. Process Control Technologies	40 hours
	2. Introduction to Totally Integrated Automation	40 hours
	3. Automation Systems	40 hours
	4. Motor Controls	40 hours
	5. Mechanics and Machine Elements	40 hours
	6. Manufacturing Processes	40 hours
	<b>Recommended Total</b>	<b>240 hours</b>

\* For more details information about each course please visit [mse.sfu.ca/siemens](https://mse.sfu.ca/siemens)

After a participant attends all courses for a specific level, he/she undertakes an online examination at SFU Surrey campus designed by Siemens. Upon successfully passing the examination the student receives a certificate from Siemens in addition to certificate of attendance from SFU Mechatronics.

## Local Excursion Examples

### Whistler Blackcomb

The world-famous ski-resort is located 121 km north of Vancouver. The resort offers the Peak 2 Peak gondola holding the world record in the highest suspended cable car in the world.

Please visit

<https://www.whistlerblackcomb.com/>



### Capilano Suspension Bridge

One of the most famous attractions in Vancouver. The bridge crosses 70 m over the Capilano river with a length of 140 m.

Please visit

<https://www.capbridge.com/>



### Butchart Gardens

The stunning garden is located in Victoria, the capital city of British Columbia. The gardens offer a wide variety of plants and flowers from all over the world.

Please visit

<http://www.butchartgardens.com/>

