

Level 1 SMSCP

Pre-requisite: Knowledge of basic arithmetic is highly recommended.

<p>SMS 203 – Automation Systems</p>	<p>with the corresponding data configuration in STEP 7. PROFIBUS modules are going to be wired with bus cables to a PLC.</p> <p>Additionally, maintenance and troubleshooting of these bus systems are essential components of the course.</p> <p>The Automation Systems course in the Level 2 certification program is divided into two main branches; Manufacturing Technologies, including CNC, CAD and CAM; and Microcontrollers and Programming, which constitute essential tools in modern manufacturing, particularly in mechatronic systems.</p> <p>When breaking down a system into its constituent modules, it is likely to find a microcontroller as the intelligent core of the entire structure. The microcontroller section</p>
---	---

	<p>For the process management component, a factory simulation is conducted. Each participant is assigned a role and the rules of the simulation are discussed. After a series of runs of the simulation, a discussion and presentation is made, where participants not only present their performance and progress data but also track what they learned.</p>
--	---

	<p>For the hands-on design project component, instructors are encouraged and supported in creating a useful design project for students. Students are divided into teams, informed of the rules of the project, given a timeline, budget and a “customer”, as well as other parameters. After completing the project, students present their results and learning outcomes.</p>
--	---