Robot virtual training
Learn how to utilize your robot’s full potential

ABB Robotics virtual robot programming training is aimed to help you utilize your robot’s full potential, virtually. Our standard training program allows you to prepare and specialize your staff optimally for the use of ABB robots. This allows you to operate your systems efficiently and optimally.

**Course goal**
Alternative to in person training, the virtual training, led by ABB professional trainers, uses the latest technologies, like video and remote meeting, to enhance the student experience.

The goal of this virtual robot training is to teach students how to operate and program the robot to reach the best productivity from customer equipment. We have different standard trainings, like: Basic programming, Advanced programming and RobotStudio.

**ABB virtual training benefits**
ABB training programs ensure your staff is confident working with flexible automation and enable you to get the most out of your automation investment. ABB’s virtual training programs help to:
- Improve quality and performance to maximize the return on your system investment
- Keep the equipment running
- Save operating time, expenses and materials
- Improve employee safety, skills, confidence, and morale

**Course objectives**
Upon completion of this course, the student will:
- Have a basic knowledge about the mechanics of ABB robots
- Be able to jog the robot both linear, reoriented and axis-by axis
- Be able to structure a program using routine, modules and named data
- Understand the difference between Task and Program
- Be able to program basic movements
- Be able to recognize if the revolution counters are ok and to update if needed
- Be able to create and define tool data
- Be able to create and define wobj data
- Be able to save programs and backup the system
- Be able to create a virtual copy of a real controller
- Be able to use RobotStudio for editing the robot-program both online and offline

**Additional benefits of virtual training**
- No travel time and costs needed
- No real robot needed as virtual training can be done at home or in office

**Advanced programming**
After successfully completing the course, the participant should be able to:
- Create and use modules, routine and data
- Create advanced tool center points
- Program search instructions
- Program position displacement instructions
- Program error handling instructions
- Program interrupt instructions and traps
• Use joint configuration instructions
• Use motion control instructions

RobotStudio®
This class will cover everything that the general user would need to know:
• Start and utilize RobotStudio Software
• Create a simulation station
• Create and attach tooling to robot simulation
• Create robot motion
• Create robot programs
• Create basic geometry modeling
• Import external graphic files
• Use the I/O simulator
• Create work objects
• Set local origin
• Set task frames
• Use Auto Path feature
• Use Signal Analyzer
• Record simulations
• Edit RAPID code using RAPID editor
• Watch data values while simulation executes
• Create simulation of real robot

Student profile
Basic Programming is the first step to become a robot programmer and for personnel with a need to modify existing programs. Advanced Programming is intended for students that have attended the Basic Programming course but require greater knowledge of programming features.

RobotStudio prerequisite is Advanced Programming and is intended for:
• Engineering personnel that are interested in computer simulation software.
• Those responsible for simulating robot layout and reach capabilities and robot program simulation.
• Any one responsible for creating new part programs for existing robots with computer experience.

Duration
Basic Programming  5 days
Advanced Programming  5 days
RobotStudio   4 days

To enroll in a course
To make a reservation please contact your local ABB robotics office.

Things to do prior to class time!
• Must be comfortable working in the Windows environment.
• Must have a quiet room, a PC with high speed internet connection and working Headset with microphone and speakers.
• Must Install and License RobotStudio (Licensing instructions are provided with purchase contract)
• Download the virtual meeting software recommended by ABB to get best results. Please check with local IT before class time to determine issues with virtual meetings.
• Strongly recommend two monitors. One for the virtual classroom/student manual and one for RobotStudio.
• A pad of paper for notes.