RobotStudio 5 with ArcWare PowerPac
IRC5 – 4½ days – Course Code: US405

The goal of this course is to teach the students how to use the ABB RobotStudio 5 and ArcWare PowerPac software for use with IRC5 controllers.

Topics include
- Basic controls
- Building a station
- Robot moves
- Robot programs
- Local origin
- Tools
- Task Frames
- Auto Path Feature

Arc Welding PowerPac Off-line Programming with RobotStudio
- Introduction to RobotStudio
- Setup of Customer Part into RobotStudio
- Creation of welding programs using the ArcWare PowerPac
- Download Procedures to Robot Controller

Arc Welding PowerPac Off-line Program Calibration
- Calibration of Off-line program to coincide with part
- Using Robot Studio for Off-line fine tune adjustments
- Using FlexPendant Applications for On-line fine tune adjustments
- Maintaining program quality throughout lifetime of part

Course objectives
After successfully completing the course, the participant should be able to:
- Start and utilize RobotStudio 5 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
- Set-up and use Event Manager
- Create simulation of real robot

Student profile
- Engineers
- Maintenance technicians
- Robot Programmers

Prerequisites
- Programming I for Material Handling (US420) OR Programming I for Arc Welding (US490)
- The attendee must have a good, working knowledge of Windows