



2 Day Basic Robot Studio course

1 day

- Introduction
- Robot Studio Overview
- Help screen (F1)
- Terms and Concepts
- Installation & Licence
- RobWare
- Virtual controller
- User interface & Navigation
- RS Workflow
- Create stations
- Create systems
- Coordinate systems
- Placements
- Tools and work objects
- Jogging / Moving robot
- Synchronization between Station & Virtual controller
- Create Targets & Path (on part)
- Check Configuration & Reachability

2 day

- Programming exercises
- Simulation, Sim Monitor
- Loading Saving programs
- Modelling, create basic 3D models
- Importing (converting format) CAD objects
- Pack and Go
- I/O configuration



- I/O simulation



Outcomes

- Describe and explain Robot Studio Virtual controller / Station
- Create new station selecting suitable robot
- Import Library components: Tools, Equipment etc.
- Attach tool to Robot
- Jog Robot using Freehand tool, Linear, Axis by Axis and Reorientate
- Jog Robot using Mechanism jog tool, Linear, Axis by Axis and Reorientate
- Create Tool Using Geometry and "Create tool wizard"
- Create Work Object
- Create Robargets on part
- Teach Robtarget
- Create Path
- Move Robtargets into path
- Move along Path
- View Tool/Robot at Target
- Hide/ Show objects
- Hide/ Show object names
- Examine object
- Describe and explain Synchronise to Station / Virtual controller
- Describe and explain Robot Studio Instruction Template
- Describe and explain Selection options
- Create a 3D solid model
- Describe and setup a Simulation
- Check Cycle time in Simulation mode using stop watch
- Describe and setup a Collision Set
- Describe and use Operator window



- Connect controller to real robot

- Describe and Transfer controller to “Go Offline“
- Describe and Transfer RAPID program between real controller and RS
- Describe and setup monitoring TCP trace and Singularity
- Describe and check reachability of targets
- Describe, Explain and run auto configuration
- Describe and setup RAPID watch on data
- Describe, Explain and create a Pack and Go file
- Create Path on curve (auto Path)