The goal of the course is to train the student to safely use the FlexPendant to create spot weld routines, set and change weld data and edit existing programs.

Topics include
- Safety precautions while programming and operating the robot system
- Operator controls and indicators on the FlexPendant and operators panel
- Overview of spot cell functionality
- Overview of spot process equipment functionality
- Program Creation Procedures
- Utilization of the spot welding instructions
- Equipment setup
- Correct positioning of the robot using the FlexPendant and various motion types
- FlexPendant menus and displays for entry of welding routines, program commands and spot data

Course objectives
After successfully completing the course, the participant should be able to:
- Practice safety as it pertains to the Robot and the welding system
- Safely start up the controller and move the Robot using the joystick
- Identify and use all the buttons on the FlexPendant
- Interpret and respond to Event Messages
- Load, create, save, delete, check or edit programs using the Robot FlexPendant
- Verify Robot calibration offsets
- Define a TCP, using the 5 point method
- Use movement and spot welding instructions in a basic welding routine
- Set up the spot weld equipment
- Create and execute routines
- Use work objects for Jogging and movement reference

Student profile
Welding cell programmers and engineers

Prerequisites
- Spot welding experience
- Microsoft PC operating training or experience for Windows 3.1, 95, or NT

Duration
Course Duration is 4.5 days.