The goal of the course is to train the student to safely, effectively, and efficiently program the welding cell devices using advanced S4 commands.

Course Duration: 4.5 days

Topics Include:

- Review of safety precautions while programming and operating the robot cell
- Review of operator controls and displays on the teach pendant and operators panel
- Review of basic S4 ArcWare program commands and functions
- Positioner set-up commands
- Setting positioner and special work objects for use in coordinated welding
- Coordinated welding techniques
- Setting up and using the ABB “SmarTac” system for multiple purposes
- Installation, programming and use of error handlers
- Program displacement functions
- Use of rapid converters when changing software versions

Course Objectives

After completing this course the student should be able to:

- Safely program and operate the robot welding cell using advanced functions
- Use the SmarTac functions for “go-no-go” decisions, part identification and program selection
- Displace part programs based on a search of the actual part
- Set up and program positioner for coordinated welding functions and reference point program control
- Install the program and use error handler functions
- Use the Rapid converter function to make existing programs compatible with new versions of software

Student Profile

- Welding cell programmers
- Engineers

Prerequisites

- GMAW training or similar welding experience
- S4 Weld Programming Course US330