

US331-S4 Arc Welding Programming II

IRB 1400, 2400



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