Course description
IN-RB06
Arc Welding Process and System

Course goal
The goal of the course is to improve the ability of run the Robot cell, Program Modification and responsible for engineering, commissioning, operation and Maintenance of Robotics for Automation. Able to run the Robot cell, Program Modification, New programming, improvement in Welding Quality, General Troubleshooting

Learning objectives
Upon completion of this course, students will be able to:
- understand the use Arc Welding Process
- Safety and Handling
- Understand the critical elements Programming
- Welding system
- Process Control and setup

Participant profile
Personnel from Plant Engineering
Robot Operator

Prerequisites
Degree or diploma in engineering, basic knowledge of Automation Product, Programming Concept

Topics
- Safety Overview & Introduction
- Overview of RAPID , RAPID Program structure ,Routines, Modules, Program Data
- Program Data ,new Data ,Declaration , Data Arrays
- Introduction of ABB Arc Welding System
- Description of ABB Arc Welding system and its Components
- Robot Work object and Defining the Work object
- Use of Work object
- hand-on exercise
- Arc Welding Instructions
- ArcL, ArcC
- hand-on exercise & Practices

Topics
- Arc Welding Program Data
- Weld Data,
- Seam Data,
- Weave Data.
- Interfacing of Welding equipment
- Hardwiring or Bus communication
- Welding Signals (Input/Output)
- Voltage Controlling, Wire feed controlling
- Error Handling
- Tool Cleaning station & equipment
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- Programing of TCP station
  Overview of Weld Guide & SmarTacInterrupt
- Roboware Arc Explanation Overview of RobowareArc Menu
- ModPos or Teaching of Program
- Welding PROCESS Control
- Question & Answer, Summarizing

Course type and methods

This is an instructor led seminar with practical exercises. The language of the course is English

Course Duration
The duration of the course is Two days.
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Course Outline

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