The goal of the course is to train the student to properly setup, commission, and tune servo controlled spot welding guns.

Topics include:
- Safety precautions while working with Spot Welding guns
- Why Servo tuning is required
- Proper tool center point definition
- Servo Gun Commissioning
- Servo Gun Calibration
- Setup Servo Gun Deflection
- What is Tune Master
- Servo Gun Tuning
- Servo Gun Verification
- Motor Commutation
- Motor Wiring
- Resolver Wiring
- Complete configuration of unknown gun and motor
- Configuring Kv

Course objectives:
After successfully completing the course, the participant should be able to:
- Practice safety as it pertains to the Robot and the spot welding system.
- Setup a Tool Center Point including Arm Load and Tool Load
- Reference Tool Center Point in program for procedures
- Commission a Servo Gun using a starter file.
- Calibrate a Servo Gun
- Install and use Tune Master to tune a Servo Gun
- Describe the 7 critical steps of complete tuning
- Identify and fix commutation problems
- Identify and fix motor wiring problems
- Setup an unknown gun and motor for the first time
- Setup KV for an unknown motor

Student profile:
- Welding cell programmers and engineers
- Technicians
- Engineers

Prerequisites:
- US 491
- Spot welding experience
- Microsoft PC operating experience for Windows

Duration: 4½ days

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