



## Mitsubishi Electric: Inverter and Pulse Type Servo Systems

### Course Overview

Servo Amplifier & Inverter Drive Control Systems. Master servo motor control, servo amplifiers, and VFD/inverter programming for industrial applications. Industries rely on these technologies for precise motion control, productivity, and energy efficiency. Learn to design and optimize motion control systems, optimize motor performance, reduce energy consumption, and troubleshoot system issues.

### Prerequisites

A basic understanding of electrical principles, motors, drives, and PLC programming is recommended for this course.

### Objective

This comprehensive course focuses on Mitsubishi servo amplifiers, including the RD77MS4 controller, and the 800 Series Inverter Drive. Participants will learn servo motor control, servo amplifier parameter setting, MR Configurator 2 programming, homing operations, positioning techniques using RD77MS4, and inverter programming. Gain practical knowledge and skills for industrial applications.

### Target Group

- Engineering students specializing in automation and control systems.
- Professionals working in roles such as trainers, planners, implementers, programmers, and operators
- Individuals involved in service, commissioning, engineering, and maintenance roles.



### Content

- Introduction to Electrical drives. Concept of servo control systems as
- Introduction to MR-J4-10B & its connections
- Communication between the drive & PLC.
- Programming of servo drive using MR Configurator 2
- Parameterization of the servo amplifier
- Testing, parameterization & backup using software
- Introduction to the positioning of the axis using RD77MS4
- Concept of both incremental and absolute positioning
- Introduction to point table operation & buffer memory
- Concept of current value change & teaching function for axis



### Duration

- 15 Hours