

## INTRODUCTION

Servo Technology has been conventionally been a part of CNC Machines. But with the development of General Purpose Servos, now this technology is spreading very rapidly and is used widely in various applications of Motion Control across many kinds of Industrial Machinery. Servo is fast replacing conventional motion systems like Oil Hydraulic / VFD controlled Motors / Pneumatic etc. due to its highly intelligent features and total programmability. This Program gives an overview of Servo Motors technology, in the usage of Motion Control in Industrial Machines and Applications. This program will cover major aspects of Servo Technology and general-purpose Servos.

Keeping this in mind, IMTMA is conducting an online program on Servo Technology for Industrial Motion Control.

## FOCUS AREAS

- Requirements of Motion in Automated Motion System
- Overview of some conventional Motion Systems
- Torque Speed Characteristics of Rotary Motions ( Prime Movers / Loads )
- Servo Basics ( Concept of Closed Loop Control )
- Servo Motor Systems Parts
- Servo Modes of Motion Control ( Position / Speed / Torque )
- Special Operational Features of Servo
- Overview of Servo Sizing calculations
- Overview of Intelligent Motion Controllers
- Some intelligent Application Examples
- General Purpose Servo Vs CNC Servo
- Latest Developments / Connected Technologies
- Comparison of Various Technologies for Motion Control

## KEY TAKE AWAYS

- Macro Level Understanding of Servo Technology
- Role of Servo Technology in Today's intelligent and High Speed Motion Controls in Machines
- Know about usage of servo for motion control in Industrial machines
- Know about various application of Servo
- Demonstration on TIA (total integrated automation) portal on programming of servo system, communication with Profinet protocols, parameterization of servo drive, setting of soft limits of the servo drive, configuration of interrupt inputs to a servo drive, commissioning & diagnosis of servo drive, checking the system with physical servo drive

## FEE PER PARTICIPANT (PER LOGIN)

**Rs. 5500/-**  
+18% GST

**IMTMA Members/ Micro Companies/ Individuals/  
Educational Institutions / Students/ IMTMA Non  
Members/ Others**

**USD 220/-**  
**Overseas Participants**

**Group Concession : 20% for 3 to 5 and 30% for 6 and more delegates being nominated from the same company**

## FACULTY

This program is conducted by **Mr. Anil Purohit** and **Mr. C S Chandrashekar**.

**Mr. Anil Purohit** is an Electrical engineer with more than 40 years of Industrial Experience in the field of Machine Control Systems, Automation Products & Solutions, Machines & Test Rigs building, Intelligent and High-Speed Motion Controls with Servo.

Presently he is working as Director at Leonardo Automation India Pvt Ltd and ETA Technology Pvt. Ltd. Bangalore.

**Mr. C S Chandrashekar** is an Electrical Engineering graduate from Bangalore University in 1990.

Mr. Chandrashekar comes with a rich experience of 30+ years from various industry domains in Electrical and Control system design for Special Purpose Machines, Automation system design and execution in the automotive sector, vacuum application sector, defense sector, Aerospace, space sector, and nuclear power sector. He worked as head - Plant Electrical / Machine Maintenance.

### For Registration Contact

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