

Course Title: Motion Control Technology**Course Code: EEA 127****Course Background / Summary:**

Motion control is an important part of robotics and CNC machine tools. Concept Systems is the leader in motion control systems. Whether your application calls for PLC-based motion, CNC, robotics, electric servo control, and/or hydraulic servo control, Concept Systems can provide the know-how to ensure it is integrated properly. Concept Systems has expertise in all the major motion control platforms. More importantly, Concept Systems excels at matching the technology with the application. Concept Systems is dedicated to being on the leading edge of motion control technology and delivering the benefits to you. It provides you with a general understanding of the Motion Control System. Participants will be given chances to work on a modeled motion system during practical sessions.

Course Objectives:

- Differentiate parts included in the electrical part of a motion control system.
- Interpret the electric diagram of a motion control system.
- Write motion programming the controller on a machine.
- Analyse the setting of machine parameters.

Target Audience:

- Industrial workers, Teaching staff/instructors
- Professionals involved in manufacturing, assembly, and maintenance

Course Duration: 3 Days**Course Contents****1.0 Introduction to Motion Control System: Open Loop Motion Control, Closed Loop Motion Control****2.0 Motion Control System Elements: Motor Technology, Drive, Feedback Devices****3.0 Electrical Diagram of a Motion Control System****4.0 Introduction to Motion Programming****5.0 Control Introduction: Control Mode Conception, Machine parameters****6.0 Potential Problems & Troubleshooting**