

UNIVERSITI KUALA LUMPUR

MALAYSIAN SPANISH INSTITUTE

Course Title: Electro Hydraulic System

Course Code: EEA 105 (ii)

<u>Course Background / Summary:</u>

This course focuses on designing the fundamental of electric circuit control which will be adapted to the electro-hydraulic controls; whereby the applications on the SMC training kits will expose the participants towards understanding how electro- hydraulic functions. Participants will learn the elements of troubleshooting/fault finding.

Course Objectives:

- Define the fundamentals of electro-hydraulic components in terms of components characteristics.
- Design the electrical control circuit and adapt the control circuit (including hardware and PLC control) to the electro-hydraulic circuit.
- Design and fault finding of an electro-hydraulic circuit.

Target Audience:

- Industrial operators
- Technicians and engineers responsible for the operation, maintenance, troubleshooting, and repair of hydraulic operated machinery
- Teaching staff/instructors

Course Duration: 3 Days

Course Contents

1.0 Introduction and Advantages of Electro Hydraulic System

2.0 Fundamental in Control Circuit (Hardware and PLC Control)

3.0 Electro Hydraulic Circuit: Control System Development: Design & Assembly

- 4.0 Electro Hydraulic Applications
- 5.0 Electro Hydraulic in Simulation

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6.0 Application of Hydraulic Systems