



(The contents and other related details in this form is used for publication purpose only. Training module will be given to participants upon registration)

Course Title: INDUSTRIAL AUTOMATION		Course Code : EEA 102
Course Background/Summary : Participants will be exposed to industrial components and controls (Electrical, Motor, Pneumatic & Hydraulic)		
Course Objectives: Trainees will be able to adapt to the systems in Industrial Automation and controlling the automation system covering topics in Electrical, Pneumatic and Hydraulic applications .		
Target Audience: <ul style="list-style-type: none">• Anyone who is interested in gaining solid knowledge of the key elements of industrial automation to improve their work skills and to further their job prospects:• Electrical Engineers and Electricians, Maintenance Engineers and Supervisors, Energy Management Consultants, Automation and Process Engineers, Design Engineers, Project Managers, Instrument Fitters and Instrumentation Engineers, Consulting Engineers, Production Managers, Chemical and Mechanical Engineers, Instrumentation and Process Control Technicians		
Course Duration :	10 days	
Course Contents :		
No	TOPICS	
1.	Electrical Control (Motor Control) : <ul style="list-style-type: none">• Input/output elements, circuit diagrams.• AC & DC Motor:<ul style="list-style-type: none">a. FWD/Rev uses Stop Button,b. FWD/Rev uses Limit Switch Relay,c. FWD/Rev uses the Proximity Sensor,d. Three-phase Motor Connection & Starting Techniques,e. D.O.L. Starting,f. Star-Delta Starting	

UniKL MSI can also customize existing short courses and develop new courses to meet your personal training needs and requirements. The course duration serves as a guideline for your reference.

Please forward enquiries to Centre for Advancement & Continuing Education (ACE), University Kuala Lumpur (Malaysian Spanish Institute), Kulim Hi-Tech Park, 09000 Kulim, Kedah or via fax to:04-4032539 or email to syazrah@unikl.edu.my or call 04-4035199 / 200 (ext:112 / 185)



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2.	Programmable Logic Controller (PLC): <ul style="list-style-type: none">• Introduction to PLC, Sequential Programming,• Timer & Counter Instruction,• Application of PLC in Industrial Automation
3.	Hydraulic System <ul style="list-style-type: none">• Conventional Hydraulic System.• Electro Hydraulic Systems: Power and Control, Single & Continuous Cycle• Electro Hydraulic Systems: Using PLC
4.	Pneumatic System <ul style="list-style-type: none">• Conventional Pneumatic System.• Electro Pneumatic Systems: Power and Control, Single & Continuous Cycle• Electro Pneumatic Systems: Using PLC
COURSE STRUCTURE:	
Practical :	20%
Theory :	80%

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