



UNIVERSITI KUALA LUMPUR
MALAYSIAN SPANISH INSTITUTE

(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: ADVANCED HYDRAULIC SYSTEMS		Course Code : EEA 105 (L3)
Course Background/Summary : This advance hydraulic control course is based on practical applications and experience in hydraulic controls such as conventional-hydraulic, electro-hydraulic and programmable logic controllers in the workplace. Participants in this course will be able to understand and perform the hydraulic and electro-hydraulic system. They will be exposed to the automation system by using PLC as a controller for hydraulic system.		
Course Objectives: <ul style="list-style-type: none">• Familiarize with hydraulic technology and control• Execute the hydraulic and electrical control circuit and advance hydraulic control such as PLC.• Fulfil the basic knowledge of PLC hardware & software and understand the functionality of the PLC application.• Apply the knowledge gained to design and program simple projects based on hydraulic technology		
Target Audience: <ul style="list-style-type: none">• Industrial operators• Technicians and engineers responsible for the operation, maintenance, troubleshooting and repair of hydraulic operated machinery• Teaching staffs/instructors		
Course Duration :	Min:3 days, Max:5 days	
Course Contents :		
No.	TOPICS	
1	<u>Conventional Hydraulic System</u> <ul style="list-style-type: none">• Theory of Hydraulic System• Basic Component• Hydraulic Control System• Circuit design by using Fluid Sim Hydraulic• Practical Application of Hydraulic System	

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	<u>Electro-hydraulic System</u> <ul style="list-style-type: none">• Theory of Electro Hydraulic System• Basic Component• Electro Hydraulic Control System• Design Circuit by using FluidSim Hydraulic• Practical Application of Electro-hydraulic System.
3	<u>Introduction to PLC</u> <ul style="list-style-type: none">• Features• I/O assignment, input/output connection• Basic work cycle
4	<u>Basic instructions</u> <ul style="list-style-type: none">▪ Instruction series / parallel▪ Instruction SET/ RESET• Timer, Counter• Sequential function Chart (SFC)
COURSE STRUCTURE:	
Practical :	70%
Theory / Lab Works :	30%

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