



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:		Course Code :	EEA 117 (L1)
MECHATRONICS (LEVEL 1)			
Course Background/Summary :			
This is an introduction course to various control media that is used in automation systems and explains the operation of some of the components used to allow the delegates to compare control methods. This course covers topics on the control of pneumatic actuators using pneumatic and electrical signaling devices together with the use of PLC. The construction and operation of valves and sensors is examined and used in the construction of control circuits.			
Course Objectives:			
<ul style="list-style-type: none"> • Read and understand pneumatic circuit diagrams to recognized international standards • Read and understand simple PLC programs • Recognize pneumatic and electrical components and understand their functions • Recognize the component parts of simple PLC systems and understand their functions • Construct simple pneumatic, electro pneumatic and PLC control circuits • Determine how pneumatic, electro-pneumatic and PLC systems interface to each other • Compare pneumatic, electro-pneumatic and PLC systems as solutions to simple applications 			
Target Audience:			
<ul style="list-style-type: none"> • All personnel involved in the design, installation or maintenance of systems that contain pneumatic, electro-pneumatic and PLC equipment 			
Course Duration :		Min:3 days, Max:5 days	
Course Contents :			
No	TOPICS		
1	Introduction to Mechatronics		
2	Pneumatic & Electro-pneumatics		
3	Electrical Control and PLC		
COURSE STRUCTURE:			
Practical :		60%	
Theory / Lab Works :		40%	

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)