



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: Programmable Controller		Course Code	:	EEA 129
<u>Course Background/Summary:</u>				
<p>The course focused mainly on the fundamentals and basic concepts of Programmable Logic Controller (PLC). PLC theory operation and commonly used PLC functions are covered in detail. Among of topics discussed, will be focusing on the PLC application process from the configuration and programming (ladder diagram) where all these part are interrelated and as a domain to control actuators and electrical machine.</p>				
<u>Course Objectives:</u>				
<ul style="list-style-type: none">▪ To expose with basic concept of programmable controller hardware including the structure, working operation, advantage and disadvantages of programmable controller compared to Electrical control technique.▪ Explain the structure, concept, working operation, advantage and disadvantages of programmable controller compared to electrical control technique.▪ Demonstrate and perform how to download, do wiring and connection on P programmable controller LC with actuators.				
Target Audience:				
<ul style="list-style-type: none">• Academician, teaching staff, technician				
Course Duration :		3-4 days		
No	CONTENTS/TOPICS			
1.	Introduction to PLC <ul style="list-style-type: none">• Basic Structure & Hardware• Basic architecture• Basic Components : CPU, Power supply, I/O Unit			

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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	PLC wiring <ul style="list-style-type: none">• Input elements.• Output elements
2.	PLC Programming <ul style="list-style-type: none">• Logic functions (AND, OR, NOT)• Hardwired Logic vs Programmed Logic• Basic of PLC Programming• Ladder diagram (LD) ,Sequential• Operations(latching, timer, counter)
COURSE STRUCTURE:	
Practical :	60%
Theory :	40%

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