



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: CNC INSTALLATION & MAINTENANCE OF MACHINE TOOLS		Course Code : EEA 106
Course Background/Summary : This course exhibits the concepts of CNC maintenance technology in a simple- to- understand style. This course has been developed with reference to a Fagor 8050 CNC system. It is intended for individuals interested or involved in maintenance of CNC machines. The focus of the course is on the CNC control system rather than the mechanical aspects of a machine.		
Course Objectives: <ul style="list-style-type: none">• Differentiate parts included in the electrical part of a CNC machine.• Draw up the electric diagram of a machine with CNC.• Correctly program the programmable logic controller on a machine.• Perform settings for machine parameters.		
Target Audience: <ul style="list-style-type: none">• Industrial workers• Teaching staffs/instructors• Professionals involved in manufacturing, assembly and maintenance		
Course Duration	:	Min:3 days, Max:5 days
Course Contents	:	
No	TOPICS	
1	<ul style="list-style-type: none">• Electrical components• Motors, drives.• Position capturing devices (linear and rotary encoder)• CNC and PLC	
2	Electrical diagram of a typical machine	

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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3	Programming of a PLC <ul style="list-style-type: none"> • Combinatorial instructions (AND, OR, SET, RESET) • Marks, time switches, counters • Comparative load-transfer and arithmetic operations • CNC-PLC communication
4	Machine parameters <ul style="list-style-type: none"> • General parameters • Axis parameters • Spindle parameters • PLC parameters
5	Introduction to fault finding techniques
COURSE STRUCTURE:	
Practical :	60%
Theory / Lab Works :	40%

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