



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: MOTION CONTROL TECHNOLOGY		Course Code :	EEA 127
<u>Course Background/Summary:</u>			
<p>Motion control is a sub-field of automation, in which the position and/or velocity of machines are controlled using some type of device such as a hydraulic pump, linear actuator, or an electric motor, generally a servo. Motion control is an important part of robotics and CNC machine tools. Concept Systems is the leader in motion control systems. Whether your application calls for PLC-based motion, CNC, robotics, electric servo control, and/or hydraulic servo control, Concept Systems can provide the know-how to ensure it is integrated properly. Concept Systems has expertise in all the major motion control platforms. More importantly, Concept Systems excels at matching the technology with the application. Concept Systems is dedicated to being on the leading edge of motion control technology and delivering the benefits to you. It provides you a general understanding of Motion Control System. Participants also have chances to work on a modeled motion system example, during the practical session.</p>			
<u>Course Objectives:</u>			
<ul style="list-style-type: none"> • Differentiate parts included in the electrical part of a motion control system. • Interpret the electric diagram of a motion control system. • Write motion programming the controller on a machine. • Analyse the setting of machine parameters. 			
<u>Target Audience:</u>			
<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	Introduction to Motion Control System : Open Loop Motion Control, Closed Loop Motion Control		

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	Motion Control System Elements: Motor Technology , Drive , Feedback Devices	
3	Electrical diagram of a motion control system	
4	Introduction to Motion Programming	
5	Control Introduction: Control Mode Conception , Machine parameters	
6	Potential Problems & Troubleshooting	
COURSE STRUCTURE:		
Practical :		60%
Theory :		40%

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