



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: DISCOVERY ON VARIABLE SPEED DRIVES		Course Code : EEA 156
<u>Course Background/Summary :</u> Variable-speed drive (VSD) describes equipment used to control the speed of machinery. Many industrial processes such as assembly lines must operate at different speeds for different products. In industry, the application such as conveyor, centrifugal pumps, fans and compressors used electrical motors to operate it. Most motors are designed to operate at constant speed and provide a constant output; however, modern technology requires different speed in many applications. By applying the VSD devices, the company/user will benefit of: <ul style="list-style-type: none">• Match the speed of a drive to the process requirements.• Match the torque of a drive to the process requirements.• Save energy and improve efficiency and increase productivity. In this course, participants will discover the concept of controlling the electrical motor such as AC motor, DC motor and brushless DC (BLDC) motors.		
<u>Course Objectives:</u> <ul style="list-style-type: none">• Describe the need of VSD devices in typical industry applications• Identify the types of DC, AC and BLDC motor drives.• Perform the installation and testing the VSD connection for electrical motors.		
<u>Target Audience:</u> <ul style="list-style-type: none">• Electricians, mechanics, reliability/maintenance managers• Technical teachers		
Course duration :	Min: 3 days	
Course Contents :		
No	TOPICS	
1	<u>THEORY SUBJECTS:</u> <ul style="list-style-type: none">• Module 1: the need of variable speed drives	

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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	<ul style="list-style-type: none">• Module 2: DC motors and drives• Module 3: AC motors and drives• Module 4: BLDC motors and drives
2	<u>PRACTICAL TASKS:</u> <ul style="list-style-type: none">• Speed measurement technique• Speed control of DC motors• Speed control of AC motors• Speed control of BLDC motors
COURSE STRUCTURE:	
Practical :	60 %
Theory :	40 %

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