



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: MEASUREMENT THROUGH COORDINATE MEASURING MACHINE (CMM)		Course Code :	MET 105
<u>Course Background/Summary :</u> Coordinate Measuring Machine (CMM) play an important role in a large number of industries including aerospace, automotive, electronics, food processing, health care, paper, pharmaceuticals, plastics, semiconductor and research & development. The ability to quickly and accurately capture and evaluate dimensional data distinguishes CMM from other types of measuring equipments. Sophisticated contact and non-contact probes, combined with vast computer processing capabilities make the CMM a practical and cost effective solution. The intention of this course is to provide the trainees with practical skills in operating the CMM to measure part features with complex geometry and assemblies.			
<u>Course Objectives:</u> <ul style="list-style-type: none">• Describe main components and configuration of CMM;• Measure part features with complex design through the use of CMM; and• Highlight the advantages of CMM applications in the manufacturing industry.			
<u>Target Audience:</u> <ul style="list-style-type: none">• Technicians, Supervisors, Quality Practitioners, Quality Inspectors, Metrologists, Technologists, Engineers, Instructors, Trainers and Lecturers.			
Course Duration :		Min : 3 days, Max : 5 days	
Course Contents :			
No	TOPICS		
1	Definition and Applications of Metrology		
2	The Importance of Metrology in Manufacturing Industry		
3	Standard System of Measurement		
4	Classification of Measurement Methods and Measuring Instruments		
5	Geometric Dimensioning & Tolerancing (GD&T)		

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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6	Introduction to CMM
7	Types of CMM
8	Main Components of CMM
9	Types of Probes
10	Operating Software
11	Coordinate System and Mode of Operations
12	Advantages of CMM Applications
No	TOPICS (Lab Works/ Practical Exercises)
1	Exercise 1: The Concept of Metrology
2	Exercise 2: The Standard Symbols of GD&T System
3	Lab Work 1: Measurement through CMM 1
4	Lab Work 2: Measurement through CMM 2
5	Lab Work 3: Measurement through CMM 3
COURSE STRUCTURE:	
Practical / Speaking:	60%
Theory :	40%

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