



**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)

<b>Course Title: SURFACE FINISH MEASUREMENT</b>		<b>Course Code :</b>	<b>MET 107</b>
<b><u>Course Background/Summary :</u></b>			
<p>In manufacturing industry, the type of surface finish that results from a machining process determines how well that surface looks, feels, wears, gives off heat and accepts coatings. Depending on their function, different types of parts require different types of surfaces. Some parts require a smooth surface finish and some require a rougher surface. Also, customers now require tighter dimension tolerances. A smooth surface finish helps parts fit the required tolerances and function under prolonged use. There are various ways to measure, check and evaluate or even do testing the surface finish. This course is intended to provide the trainees with scientific knowledge of surface finish measurement and practical skills of surface finish measuring instruments, and range from simple surface roughness specimen to highly sophisticated types such as stylus-type instruments.</p>			
<b><u>Course Objectives:</u></b>			
<ul style="list-style-type: none"><li>• Describe various types of surface texture and surface finish measurement parameters;</li><li>• Measure surfaces of part through the use of Surface Roughness Tester; and</li><li>• Highlight the advantages of surface finish measurement applications in the manufacturing industry.</li></ul>			
<b><u>Target Audience:</u></b>			
<ul style="list-style-type: none"><li>• Technicians, Supervisors, Quality Practitioners, Quality Inspectors, Metrologists, Technologists, Engineers, Instructors, Trainers and Lecturers.</li></ul>			
<b>Course Duration :</b>		<b>Min : 3 days, Max : 5 days</b>	
<b>Course Contents :</b>			
<b>No</b>	<b>TOPICS (Lecture)</b>		
1	Definition and Applications of Metrology		
2	The Importance of Metrology in Manufacturing Industry		
3	Classification of Measurement Methods and Measuring Instruments		
4	Surface Finish Control		
5	Surface Texture		

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](mailto:syazrah@unikl.edu.my) or call 04-4035199 / 200 (ext:112 / 185)



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6	Surface Finish Measuring Parameters and Tolerances
7	Surface Finish Measuring Instruments
8	Advantages of Surface Finish Measurement Applications
<b>No</b>	<b>TOPICS</b> <b>(Lab Works/ Practical Exercises)</b>
1	Exercise 1: The Concept of Metrology
2	Exercise 2: Measurement Units and Standard System
3	Lab Work 1 & 2: Surface Finish Measurement through Surface Roughness Tester
<b>COURSE STRUCTURE:</b>	
Practical :	60%
Theory :	40%

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