



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: MANUFACTURING ENGINEERING TECHNIQUES- LAYOUT, PROCESS FLOW/CHARTS, MATERIAL HANDLING AND AUTOMATION	Course Code	: MMF 119 (T)
<p><u>Course Background/Summary :</u></p> <p>Manufacturing engineering is a discipline of engineering dealing with different manufacturing practices and the research and development of systems, processes, machines, tools and equipment. Dealing with a machine that turns raw materials for a new product. This field also deals with the integration of different facilities and systems for producing quality products (with optimal expenditure) by applying the principles of physics and the results of manufacturing systems studies, such as the following:</p> <ol style="list-style-type: none">1. Layout planning2. Process flow3. Material handling4. Automation <p>Manufacturing engineers develop and create physical artifacts, production processes, and technology. It is a very broad area which includes the design and development of products. The manufacturing engineering discipline has very strong overlaps with mechanical engineering, industrial engineering, electrical engineering, electronic engineering, computer science, materials management, and operations management. Manufacturing engineers' success or failure directly impacts the advancement of technology and the spread of innovation.</p>		
<p><u>Course Objectives:</u></p> <p>The Workshop illustrates the basic skills involved in Manufacturing Techniques. This group training exercise is designed to precede an implementation of the techniques.</p> <ul style="list-style-type: none">• Describe the characteristics, benefits and importance of Manufacturing Techniques• Group manufactured products into product families• Establish an improvement model for the actual case study		

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">• Develop the skills necessary to create from Manufacturing Engineering Technique• Understand how to create an effective implementation plan• Select an appropriate product family within your own facility with which to begin	
Target Audience: <ul style="list-style-type: none">• Machines Operators & Machines Suppliers• Teaching staffs (including vocational & technical teachers)• Industrial workers	
Course Duration	: Min:3 days, Max:5 days
Course Contents	:
No	TOPICS
1.	Introduction to Manufacturing Engineering Technique
2.	Industrial Engineering – Layout planning
3.	Industrial Engineering – Material Arrangement and Handling
4.	Production Engineering – Process flow
5.	Production Engineering - Automation
6.	Application into organization
COURSE STRUCTURE:	
Theory / Lab Works	: 100%

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