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:		
TOOL AND DIE DESIGN TECHNOLOGY	**Course Code :**	**MMF 109**

Course Background/Summary :

This subject covers the introduction and understanding of basic tool and die design and construction. At the end of this course, the students should be able to design and construct a basic tool and die concept of manipulating all the different parameters and various considerations. It focuses mainly on the approach and understanding of tool and die sheet metal cutting, by distinguishing the different processes, machineries, materials, functional ability, the tools, the cost and the technology involved.

Course Objectives:

- Describe the basic shapes of the different tools used in dies (single, progressive, compound, fine cutting, deep drawing and folding dies, etc.).
- Design die design for simple product in the proper design steps and prepare drawings of its assembly.

Target Audience:

Technical person, instructor, technician, die designer, etc.

Course Duration :	**Min:3 days, Max:5 days**
Course Contents :	

No	**TOPICS**
1.0	**Introduction to Tool and die Design** • Introduction • Basic materials for tool and die. • Type of die design
2.0	**Tool and die components** • Punch and die • Punch holder • Thrust Plate (backup plate) • Top plate • Shank

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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	• Stripper plate • Bottom plate • Stopper • Screws and dowels • Land and angular clearance • Punches and Dies • Stripper and Stopper • Pilot • Side cutters • Fastener and dowel
3.0	**Tool and die design step and calculation** • Strip Layout: Arrangement of work-piece. • Separation between cuts or edges • Pitch • Arrangement of workpieces of strip sheet • Calculation of quantity of strip
4.0	**Dimensioning of cutting tool in tool and die design** • Dimensioning of cutting tools • Dimensioning of the upper die • Dimensioning of the lower die. • Standardization of device • Clearance between punch and die • Manufacturing tolerances of punches and dies
5.0	**Tool and die design construction** • Step by step design process of Progressive die • Step by step design process of Compound die
Practical :	60%
Theory :	40%

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