COURSE 3

High-Speed & High-Performance Machining



OBJECTIVES	- To understand what is HSM & HPM	
	- To identify the requirements in HSM & HP	PM
	 To know the importance of HSM & HPM in advantages in fast machining 	n terms of automation, and its
COURSE OUTLINE	 What are High-Speed & High-Performance Machining (HSM & HPM)? Not only for mold-making applications Aggressive-cutting method with high feed rate 	
	 2. Requirements for HSM & HPM Machine's Parameters Tooling & workholding selection Processes & machining strategies 3. Benefits of HSM & HPM Cost-saving Increased efficiency Better quality finishing 	
DURATION	 5 days 3 days of theory 2 days of practical HIGH SPEED MACHINING (HSM) In comparison with traditional milling: Spindle speed (N) [↑], teed rate (F) [↑] and axial cutting depth (a₀) [↑]. Radial cutting depth (a₁) [↓] and feed per tooth (t₁) [↓]. Findle speed from the formation of the speed (N) [↑] . Traditional milling: time for the formation of the speed (N) [↑] .	
	than heat propagation. Heat propagation.	IBCT Program
	Thin chip thickness Lower cutting force/deflection Deeper axial cuts	Towards TVET
l l	Small arc of engagement Reduced temperature at Higher speeds cutting zone Higher speeds	IOWARDS IVEI

UNIDUSTRY (M) SDN BHD

F-3-16, Level 3, IOI boulevard, Jalan Kenari 6, Bandar Puchong Jaya, 47170 Puchong, Selangor, Malaysia Tel: +603 8073 2780 | Fax: +603 8073 2688 email: enquiry@unidustry.my



