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Name	Design of die			
Code	CTC-KG-02			
ECTS	4			
Location	KTC Kragujevac, Univerzitet u Kragujevcu, Mašinski fakultet, Sestre Janjić 6, 34000 Kragujevac, Srbija			
Trainer/s	Dragiša Barać (CV dat u prilogu)			
Purpose	In consideration of new market demands, and regarding moving of capital in world level, we need to form professional teams in branch manufacturing of die. Manufacturing of die is begining in design department. Advancement of die in market depends on optimization of die. Paticipants of this training will have to oportunity to learn and train themselfs for the design of die.			
Recommended entry level	7th level of professional qualification, mechanical engineering			
Special requirements	Basic knowledge of metal forming (in brancf sheetmatal).			
Duration	40 hours			
General	Trainees should be able to:			
objectives	-Have knowledge for every phase of diebuilding and design basic die.			
Topics	 Metalforming, piercing ,bending, and deepdrawing. Analising drawing and tolerances Measuring of parts and presentation to customers. Design of die for piercing. Design of die for bending. Design of die for deep drawing. Process on press (mechanical, hidraulical), and data which are inportant for design Defining of process (progressive and transfer die). Design of transfer die 			
Specific	Topic 1: Metalforming, piercing ,bending, and deepdrawing	Number of hours	3	
learning outcomes in topics	 Trainess should be able to: Understend exchanging in structure of sheetmetal during processing Design power which we need for deformation 			
	Topic 2: Analising drawing and tolerances	Number of hours	2	
	 Trainess should be able to: Follow importance and requirement on drawing or 3D model of part. Understend requirements of producers cars Indicate important areas 			
	Topic 3: Measuring of parts and presentation to customers	Number of hours	1	
	 Trainess should be able to: Know process of measuring and rate succes design according to drawing 			
	Topic 4: Design of die for piercing	Number of hours	2	
	Trainess should be able to:			
	Design a simple die for piercing Topic 5: Design of die for bending	Number of hours	2	
	Trainess should be able to: • Design a simple die for bending		_	
	Topic 6: Design of die for deep drawing	Number of hours	2	
	Trainess should be able to:			
	Design a simple die for deep drawing	Ni-male and Cit	0	
	Topic 7: Process on press (mechanical, hidraulical), and data which are inportant for design Trainess should be able to:	Number of hours	2	
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	Define kind of press and force				
	Check possibility to make one operation on press				
	 Define strokes which we need on the press 				
	Topic 8: Defining of process (progressive and transfer die)	Number of hours	10		
	Trainess should be able to:				
	 Define process of getting part by progressive die or t 	ransfer			
	Topic 9: Design of progresive die	Number of hours	10		
	Trainess should be able to:				
	Design a simple progressive die				
	Topic 10: Design of transfer die	Number of hours	6		
	Trainess should be able to:				
	Design a simple tansfer die				
Portfolio	Trener ocenjuje nivo uspeha u savlađivanju obuke svakog po	olaznika i to kroz ocen	u		
assessment	vežbi i Ispitivanje.				
	Trainer evaluates level of succes in overcoming the training of each	ch student, through			
	assessments exercises and testing.				
	Rating exercise: Exercise trainer defined on the basis of which can be implemented to				
	assess the degree of learning outcomes. The exercises can be performed individually or in team, in groups of 2-5 trainees.				
	Examination: Test is defined by trainer on basis of examination which can assess th skills and their application. For this purpose it is necessary to respond to a range of questions. Answers to questions are provided in writing and orally, in a conversation with trainer evaluator.				
	Evaluation: Meet 50 - 64%				
	Successful 65 - 79%				
	Excellent 80 - 100%				
	Performance criteria and the percentage of representation of evaluation module will be given later.	these techniques in t	ne		