Tempus Project University of Kragujevac

WBCVMnet

WBC Virtual Manufacturing Network
Fostering an Integration of the
Knowledge Triangle

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European Commission
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Name	**Qualification program for new product/production system development**		
Code	**CTC-RI-06**		
ECTS	2		
Location	CTC – Collaborative Training Centre, University of Rijeka Faculty of Engineering, Vukovarska 58, HR-51000 Rijeka, Croatia		
Trainer/s	Sandro Doboviček (CV attached)		
Purpose	In mass production, development of new product and development of manufacturing process are two main projects of launching a new product on the market. Since the activities within these two projects are largely related, synergistic approach to the planning of both projects is extremely important. Taking into account the importance of the timely start of production, satisfying the demands of product quality, and often complex supply chains, there is a need for the application of the qualification program of product development and manufacturing process that allows easier monitoring of all activities that make it through certain criteria. Introduction of such a qualification program is the main purpose of this module.		
Recommended entry level	6th degree of high education, engineers		
Special requirements	-		
Duration	20 hours		
General objectives	Upon completion of the module students will know how to: • set goals and limitations of the qualification program • define all the phases of the qualification program • determine the workpiece priority and determine the criteria of specific phases of the program for it • define suppliers requirements in all phases of the program • examine compliance with requirements in all phases and bring along the assessment program		
Topics	1. The structure and requirements of a qualification program 2. Workpiece priority 3. Development concept 4. Planning and implementation of manufacturing process 5. Verification of the production process, a pre-production 6. Program closing		
Specific learning outcomes in topics	**Topic 1: The structure and requirements of a qualification**	**Number of hours**	**6**
	Trainees should be able to: • define the objectives of the qualification program • define the key phases of the program and their relationship • identifying the request of individual phases, the method of determining process capability • keeping records		
	Topic 2: Workpiece priority	**Number of hours**	**2**
	Trainees should be able to: • prioritize the work • adapting the phase requirements for specific workpiece priority		
	Topic 3: Development concept	**Number of hours**	**2**
	Trainees should be able to: • define the requirements in the concept stage of the production process • check the acceptance of the concept phase		
	Topic 4: Planning and implementation of manufacturing process	**Number of hours**	**2**
	Trainees should be able to: • define the requirements in the planning and implementation phases • check the acceptance of program planning and implementation phases		
	Topic 5: Verification of the production process, a pre-production	**Number of hours**	**4**
	Trainees should be able to: • define the requirements in the phases of checking the fulfilment of the objectives (the		

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	readiness of the manufacturing process to meet the required quantities and achieving a satisfactory quality of products) • check the acceptance of the verification phase		
	Topic 6:	**Number of hours**	**4**
	Trainees should be able to: • check the readiness of the production process with 2-day production • recognition of the primary methods for improving quality • identify methods of continuous improvement, "8D" process and the "5 Why" method.		
Portfolio assessment	Acquired knowledge and skills will be checked. Each correct answer counts. Incorrect answers are not penalized. Student can repeat exam once. The final grade is obtained on the basis of collected points. The final grade is derived as follows: - 80-100% of collected points - EXCELLENT - 65-79% of collected points - SUCCESSFUL - Collected points 50-64% - PASSED		