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Process Quality Improvement Meth	ods	
CTC-RI-02		
2		
CTC – Center for Cooperation and Training, University of Rijeka		
Faculty of Engineering, Vukovarska 58, 51000 Rijeka, Croatia		
Assocc. Prof. Duško Pavletić, Ph. D. (CV enclosed)		
Recognizing customers' demands and expectations is a prerequis		
business. The processes, that are established and maintained in order		
demands of customers, must be both effective and efficient. In this effo		
quality management and improvement models and systems. Introduction of quality management, assurance and improvement models is the purpose.		
University (master) degree, engineering studies	ose or triis modu	ic.
Oniversity (master) degree, engineering studies		
- 20 hours		
20 hours		
Upon completion of the module participants will be able to:  • Describe approaches to quality management.		
<ul> <li>To interpret the establishment of quality management system and re</li> </ul>	equirements of I	SO 900
standard	quirements of it	50 500
Describe models of excellence.		
Distinguish between different approaches to quality improvement.		
Analyze methods of statistical process quality control.		
Apply the basic tools of quality assurance.  To interpret the grounds of attained present control.		
<ul> <li>To interpret the results of statistical process control.</li> <li>Explain the impact of the measurement system on to quality of process.</li> </ul>	accae producte	and
services.	esses, products	anu
1. Quality Systems		
Quality Improvement Methods		
3. Six Sigma Method		
4. Design of Experiments		
Topic 1: Quality Systems	Hours	4
Participants will be trained for:		
Distinguishing between different quality management system		
<ul> <li>Recognition of the basic requirements of ISO 9001 standard</li> <li>Developing the structure of quality management system documenta</li> </ul>	tion	
Topic 2: Quality Improvement Methods	Hours	4
	Hours	
Participants will be trained for:  • Identifying the main differences of modern quality improvement met	nnds	
Application of basic quality improvement methods	1000	
Using the basic principles of Kaizen, Six Sigma, Lean and 20 keys respectively.	nethods	
Topic 3: Six Sigma Method	Hours	8
Participants will be trained for:		
Application of basic statistical tools		
Interpretation of the statistical process control results     The coloridation of basis indicators of process control results.		
<ul> <li>The calculation of basic indicators of process capability</li> <li>Interpretation of the results of measurement system quality evaluation</li> </ul>	an.	
Topic 4: Design of Experiments	Hours	4
Participants will be trained for:	Hours	-
Application of design of experiments methods		
Design of experiments methods selection		
<ul> <li>Development of an experiment design matrix, for the full as well as f</li> </ul>	or fractional	
experiments designs		
Interpretation of the experiments results analysis		
	cam each correc	t answ
<ul> <li>Interpretation of the experiments results analysis</li> <li>Acquired knowledge and skills will be checked by written exam. At the exist scored, while incorrect answers are not penalized. The exam can be re-</li> </ul>		t ansv



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The final grade is obtained on the basis of collected points. The final grade is derived as follows:

- 80-100% of the collected points PASSED
- 65-79% of collected points GOOD
- 50-64% of collected points EXCELLENT