



Report on Trainings for the WBC partners held in Denmark

Acronym: WBC-VMnet

Project title: WBC Virtual Manufacturing Network – Fostering an Integration of the Knowledge Triangle,

Project number: 144684-TEMPUS-2008-RS-JPHES

Date: September 2010,

Location: Lyngby, Denmark



In accordance with the approved training plan by all partners in the Project, in the period from 30th August until 3rd September 2010 specialized trainings realized at Lyngby, Denmark. Trainings were attended by WBC Partners, which are CTC staff from Serbia, Bosnia and Herzegovina, Croatia and Montenegro. Organizer of trainings was Institute for Production Engineering (IPU) as partner involved in Project Consortium. Trainings schedule and topics are listed in table below:

30th August, IPU, Lyngby

Trainers	Title of training: Metrology (dimensional)	Trainees
Rene Sobiecki	"Metrology introduction – Demo of simple measuring instruments"	1. Dr Vesna Mandic, 2. Dr Milentije Stefanovic, 3. Dr Zoran Jurkovic, 4. Dr Zivko Babic, 5. Dr Mileta Janjic, 6. Vladan Lukovic, 7. Marko Pantic, 8. Sasa Randjelovic.
Trainers	Title of training: Demo and workshop activity	
Rene Sobiecki, Erik Larsen, Jakob Rasmussen	"Visit to metrology lab, skener room and CMM room" "Calibration of micrometer" "Calibration of inductive probe" "Roundness" "CMM, OMC"	

31st August, IPU, Lyngby

Trainers	Title of training: Laser	Trainees
Prof. Dr Flemming Olsen	"Industrial laser technology" "Laser for material processing" "Charasteristic of laser beam" "Visit to laser lab" "Laser/materials interaction" "Laser cutting" "Laser welding" "New development in laser cutting and welding"	1. Dr Vesna Mandic, 2. Dr Milentije Stefanovic, 3. Dr Zoran Jurkovic, 4. Dr Zivko Babic, 5. Dr Mileta Janjic, 6. Vladan Lukovic, 7. Marko Pantic, 8. Sasa Randjelovic.

1st September, IPU, Lyngby

Trainers	Title of training: Metrology (surface characterisation)	Trainees
Prof. Dr Leonardo De Chiffre	"Introduction, surface charakterisation metrology" "3D roughnes"	1. Dr Vesna Mandic, 2. Dr Milentije Stefanovic, 3. Dr Zoran Jurkovic, 4. Dr Zivko Babic, 5. Dr Mileta Janjic, 6. Vladan Lukovic, 7. Marko Pantic, 8. Sasa Randjelovic.
Rene Sobierski	"Roughnes presentation" "Visit to metrology lab" "Calibration of small roughness testers" "2D/3D roughness demonstration"	

2nd September, IPU, Lyngby

Trainers	Title of training: Heat transfer coefficient	Trainees
Claus Schutt Hansen	"Measurement of heat transfer coefficient"	1. Dr Vesna Mandic, 2. Dr Milentije Stefanovic, 3. Dr Zoran Jurkovic, 4. Dr Zivko Babic, 5. Dr Mileta Janjic, 6. Vladan Lukovic, 7. Marko Pantic, 8. Sasa Randjelovic.
Trainers	Title of training: Tribology	
Dr Mogens Arentoft, Nikolas Aulin Paldan	"Tribology" "Visit to tribology lab" "Double can extrusion test - demonstration" "Ring test - demonstration"	

3rd September, IPU, Lyngby

Trainers	Title of training: Microforming	Trainees
Dr Rasmus Eriksen	"Process technology" "Tooling technology for bulk forming of micro components" "Visit to microforming lab"	1. Dr Vesna Mandic, 2. Dr Milentije Stefanovic, 3. Dr Zoran Jurkovic, 4. Dr Zivko Babic, 5. Dr Mileta Janjic, 6. Vladan Lukovic, 7. Marko Pantic, 8. Sasa Randjelovic.
Trainers	Title of training: Rapid prototyping	
David Bue Pedersen, Jakob Nielsen	"Rapid prototyping" "Visit to rapid prototyping lab"	

WBC Partners are informed about IPU activities and had opportunity to improve their knowledge in different areas. Apart from presentations and visits to shopflors, trainees had opportunity to follow practical demonstrations of using specialized equipment, such as:

1. 2.5D CNC CMM
2. UPCM 850 Zeiss
3. OMC 850 Zeiss
4. Mondo SM 300
5. MGB 32C (Instrument for roughness measurement)
6. Taylor Hobson (Instrument for roundness measurement)
7. Z Corporation Z310 Rapid Prototyping



