

European Training for Coordinate Metrology

D/02/B/F/PP-112 662

<http://www.adam-europe.eu/adam/project/view.htm?prj=481>

Project Information

Title: European Training for Coordinate Metrology

Project Number: D/02/B/F/PP-112 662

Year: 2002

Project Type: Pilot Project, project with multiplying effect (2000-2006)

Status: running

Country: DE-Germany

Marketing Text: The computer based Coordinate Metrology is an important part of the industrial quality assurance.

Nearly all workpieces, even s...

Summary: The computer based Coordinate Metrology is an important part of the industrial quality assurance.

Nearly all workpieces, even such with complex geometric properties, can be examined with high precision using Coordinate Metrology. Regarding the steadily increasing complexity of the workpieces together with small tolerances enabled by the use of modern production technologies, Coordinate Measurement Machines are often the only possibility to examine the shape of these workpieces. To gather reliably comparable results with measurement uncertainties as small as possible by using Coordinate Metrology, a profound knowledge about the devices and the analysing of the data is necessary together with metrological experience, extensive knowledge in physics and mathematics and about current standards. But momentarily neither there is such an education all over Europe nor the existing partial educations are comparable. It is the aim of this project to convey the interdisciplinary and multiple connected possibilities for the use of Coordinate Metrology to learned and certified workers in an intuitive and plausible way. There on one hand didactically optimised concepts for seminars are focused, i.e. concepts that are suitable for the workers. On the other hand possibilities for learning and recherche, that are integrated in the normal working place, shell be created, that can be used for the deepening of existing knowledge and to avoid mistakes and also help to avoid inactive knowledge by the connection with offers for seminars and eduactional contents.

This concept for continuing education is based on the idea of life-long learning. The project shell contribute to the europeanwide increasing and adjusting of the educational level in the Coordinate Metrology. Therefore it is necessary to analyse the europeanwide need for training of the workers and to develop educational structures und contents that are oriented at the target group and can be used with different preknowledge. This structure and the contents shell be provided in conventional form as seminary documents and also as an eLearning system. here it is especially important to fit the didactic implementation to the requirements of the workers. The eLearning system shell support explorative learning and multiple perspectives. It should be used additionally to the seminars to deepen the knowledge gathered there and also integrated in the measuring computer at the working place.

Description:

Themes: * Continuous training

Sectors: * Professional, Scientific and Technical Activities

Product Types:

Product information:

Projecthomepage:

Project Contractor

Name: Lehrstuhl Qualitätsmanagement und Fertigungsmesstechnik, Universität Erlangen-Nürnberg
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Partner

Partner 1

Name: Department of Manufacturing Technology and Automation, University Bielsko-Bia³a
City: Bieslko-Biala
Country/Region: Slaskie
Country: PL-Poland
Organization Type: university/Fachhochschule/academy
Homepage: <http://www.ktmia.pb.bielsko.pl>

Partner 2

Name: Regional Center of Industrial Metrology, Dept. of Manufacturing Engineering, Technical University of Cluj-Napoca
City: Cluj-Napoca
Country/Region: Nord Vest
Country: RO-Romania
Organization Type: university/Fachhochschule/academy
Homepage: <http://zeus.east.utcluj.ro/mb/tcm>

Partner 3

Name: Labor fuer Qualitaetstechnologie der Interstaatlichen Hochschule fuer Technik Buchs
City: Buchs (SG)
Country/Region: Mittelfranken
Country: DE-Germany
Organization Type: university/Fachhochschule/academy
Homepage: <http://www.ntb.ch/qt>

Partner 4

Name: Ultra-Precision Engineering Centre, School of Computing and Engineering, University of Huddersfield
City: Huddersfield
Country/Region: West Yorkshire
Country: UK-United Kingdom
Organization Type: university/Fachhochschule/academy
Homepage: <http://www.hud.ac.uk>

Partner

Partner 5

Name: FIM-Psychologie, Institut für Psychologie I, Universität Erlangen-Nürnberg
City: Erlangen
Country/Region: Mittelfranken
Country: DE-Germany
Organization Type: university/Fachhochschule/academy
Homepage: <http://www.fim.uni-erlangen.de>

Partner 6

Name: Abteilung Austauschbau und Messtechnik, Technische Universität Wien
City: Wien
Country/Region: Vienna
Country: AT-Austria
Organization Type: university/Fachhochschule/academy
Homepage: <http://aum.ift.tuwien.ac.at>

Products

- 1 Curriculum EUKOM
- 2 Training Concept EUKOM
- 3 User Needs Analysis Report
- 4 Methodology Design Report
- 5 Material for the Training
- 6 Description of Project
- 7 Project Website
- 8 Evaluation Strategy
- 9 Evaluation report
- 10 Technical specification report
- 11 Implementation report
- 12 Brochure "Impuls 20"

Product 'Curriculum EUKOM'

Title: Curriculum EUKOM

Product Type: program or curricula

Marketing Text:

Description: The curriculum of the european training concept EUKOM contains all elements of knowledge, that are necessary for a professional execution of measurements using a Coordinate Measurement Machine.

The educational content is structured into three hierarchic training levels.

Target group:

Result:

Area of application:

Homepage:

Product Languages:

product files

p555e431f1.pdf

<http://www.adam-europe.eu/prj/481/prd/1/1/p555e431f1.pdf>

p555e431f2.pdf

<http://www.adam-europe.eu/prj/481/prd/1/1/p555e431f2.pdf>

p555e431f3.pdf

<http://www.adam-europe.eu/prj/481/prd/1/1/p555e431f3.pdf>

Product 'Training Concept EUKOM'

Title: Training Concept EUKOM

Product Type: program or curricula

Marketing Text:

Description: The European training concept for Coordinate Metrology EUKOM contains the worked up elements of knowlegde of the curriculum.

Educational aims, contents, following competences and the didactics to be used are specified for each learning module.

The training shell take place in a mixture of face-to-face seminars and eLearning. The training concept accomodates this specification.

Target group:

Result:

Area of application:

Homepage:

Product Languages:

Product 'User Needs Analysis Report'

Title: User Needs Analysis Report

Product Type: program or curricula

Marketing Text:

Description: The User Needs Analysis Report summarizes the results of a questioning of the target group in 6 european countries. Thereby the desired training contents and the favoured way of learning were determined.

Target group:

Result:

Area of application:

Homepage:

Product Languages:

product files

p555e457f1.pdf

<http://www.adam-europe.eu/prj/481/prd/3/1/p555e457f1.pdf>

Product 'Methodology Design Report'

Title: Methodology Design Report

Product Type: program or curricula

Marketing Text:

Description: The report contents an analysis of possible teaching methods to convey the educational contents.
Out of the numerous paedagogic possibilities a mixture of conventional lessons with face-to-face contact and of the conveying of knowledge via eLearning systems was regarded as most suitable.

Target group:

Result:

Area of application:

Homepage:

Product Languages:

product files

p555e458f1.pdf

<http://www.adam-europe.eu/prj/481/prd/4/1/p555e458f1.pdf>

Product 'Material for the Training'

Title: Material for the Training

Product Type: teaching material

Marketing Text:

Description: The documentation is a part of the conveying of necessary knowledge in this training concept. It contains a summary of the most important contents and possibilities for the students to use and practice the subject matter.

Target group:

Result:

Area of application:

Homepage:

Product Languages:

Product 'Description of Project'

Title: Description of Project

Product Type: others

Marketing Text:

Description: The publication of the project description is a valuable guideline for the conduction of similar projects and for the extension of the developed training concept.

Target group:

Result:

Area of application:

Homepage:

Product Languages:

product files

p555e460f1.pdf

<http://www.adam-europe.eu/prj/481/prd/6/1/p555e460f1.pdf>

p555e460f2.pdf

<http://www.adam-europe.eu/prj/481/prd/6/1/p555e460f2.pdf>

Product 'Project Website'

Title: Project Website

Product Type: website

Marketing Text:

Description: The project website is used for the distribution of the gathered results and for the internal communication and the exchange of data between the project partners.

`www.eukom.com`

Target group:

Result:

Area of application:

Homepage:

Product Languages:

Product 'Evaluation Strategy'

Title: Evaluation Strategy

Product Type: evaluation methods

Marketing Text:

Description: The developed evaluation strategy describes a possibility for the judging of eLearning systems. It is based on a holistic approach, relying on the ideas of the EFQM. So the evaluation can be used formative to support the implementation as well as summative to perform a final rating of the developed eLearning system.

Target group:

Result:

Area of application:

Homepage:

Product Languages:

Product 'Evaluation report'

Title: Evaluation report

Product Type: others

Marketing Text:

Description: Evaluation report contains the description of the evaluation tool and the final judgement of the established courses.

Target group:

Result: Detailed evaluation of the training.

Area of application:

Homepage:

Product Languages:

product files

p555e1281f1.pdf

<http://www.adam-europe.eu/prj/481/prd/9/1/p555e1281f1.pdf>

Product 'Technical specification report'

Title: Technical specification report

Product Type: others

Marketing Text:

Description: This report describes the technical solutions that were chosen and adapted for the EUKOM project.

Target group:

Result: Description of the authoring tool XLML and the learning management system ILIAS.

Area of application:

Homepage:

Product Languages:

Product 'Implementation report'

Title: Implementation report

Product Type: others

Marketing Text:

Description: Final report of the EUKOM project.

Target group:

Result: Outcomes, results and project achievements.

Area of application:

Homepage:

Product Languages:

product files

p555e1283f1.pdf

<http://www.adam-europe.eu/prj/481/prd/11/1/p555e1283f1.pdf>

Product 'Brochure "Impuls 20"'

Title: Brochure "Impuls 20"

Product Type: others

Marketing Text:

Description: The published booklet #20 of the LEONARDO series "impuls" with the title "European Training in Coordinate Metrology" describes the development of the qualification concept and the course content as well as the realisation of the pilot course.

Target group:

Result:

Area of application:

Homepage:

Product Languages:

Events

7th project meeting

Date 21.10.2005

Description

Target audience

Public Closed event

Contact Information

Time and place

Buchs/Schweiz

6th project meeting

Date 21.07.2005

Description

Target audience

Public Closed event

Contact Information

Time and place

Bielsko-Biala/Polnien

5th project meeting

Date 01.07.2005

Description Aenderungen im Datum moeglich

Target audience

Public Closed event

Contact Information

Time and place

Wien/Oesterreich

Events

4th project meeting

Date 07.10.2004

Description

Target audience

Public Closed event

Contact Information

Time and place
Cluj-Napoca/Rumaenien

3rd project meeting

Date 23.02.2004

Description

Target audience

Public Closed event

Contact Information

Time and place
Feldkirch/Schweiz

Workshop for the Design of eLearning Systems

Date 31.07.2003

Description

Target audience

Public Closed event

Contact Information

Time and place
Erlangen/Deutschland

Events

2nd project meeting

Date 27.03.2003

Description

Target audience

Public Closed event

Contact Information

Time and place

Huddersfield/Grossbritannien

1st project meeting

Date 13.11.2002

Description

Target audience

Public Closed event

Contact Information

Time and place

Erlangen/Deutschland

Kick-off-Meeting

Date 13.11.2002

Description

Target audience

Public Closed event

Contact Information

Time and place

Erlangen/Deutschland