Projects and Products Portal for Leonardo da Vinci

Knowledge Alliance for Training Quality and Excellence in Automotive (AQUA)

EAC-2012-0635

http://www.adam-europe.eu/adam/project/view.htm?prj=10446

Project Information

Title: Knowledge Alliance for Training Quality and Excellence in Automotive (AQUA)

Project Number: EAC-2012-0635

Year: 2012

Project Type: Development of Innovation

Status: granted

Country: EU-Centralised Projects

Marketing Text: This project aims at implementing a certified on-line training about “Best and Next Practices in implementing ISO15504 Quality, ISO26262 Functional Safety and Reliability in Automotive”, unique and highly demanded by automotive companies in view of the exponentially rising complexity of functions controlled by software and electronics in modern cars. However, this should only be the first step in a long-term strategic alliance, and the partners’ synergies will be largely enhanced via their networks:
- Automotive Sys conferences by VDA
- EuroSPI conferences by ISCN
- EMIRAcle research and academy network.
Our partnership is innovative, because it allows covering the entire life cycle of a specific Automotive Qualification (i.e., agreeing, specifying, developing, deploying, disseminating and certifying skills) within ONE consortium.

Summary: Our concrete aim is to create

- a unique complementary sustainable strategic alliance for the implementation and Europe-wide deployment of modern certified VET Curricula in Quality, Functional Safety, and Reliability on an organisational level.

- a complete certified VET on-line training program (alternatively 3-days classroom training) on “Best and Next Practices in implementing ISO15504 Quality, ISO26262 Functional Safety and Reliability in Automotive”.

- significant impact during the project, which will be the basis for successful broad exploitation, by a very strict and targeted
dissemination strategy mainly facilitated by the Automotive Associations (which influence and decide about Automotive VET Training and Education curricula all over their countries) and all associated networks.

Description: The following partners, bringing together ALL stakeholders required to set up a sustainable strategic alliance that can assure the Europe-wide delivery of specific Automotive VET Curricula including European certification, want to join their complementary forces to address specific worker qualification and certification needs in the “hottest” topics in automotive - Quality, Functional Safety, and Reliability:
Europe-wide recognised certifier:
- ECQA: provides a framework and platform for quality assurance of skill sets, trainings, and on-line services of self-assessment,
training, and certification
Automotive Associations:
- Automotive Clusters in Slovenia and in Upper Austria: running Automotive Academies where the project results will become part of the
curriculum; already cooperate with the VDA (German Automotive Association pushing standards like ISO 15504, Automotive SPICE,
ISO 26262, IEC 15508, and certifying individuals and organisations; the key organisation of European Automotive Industry, headed by VW) and some of the VETs in their Academies.
VET Training Bodies:
- ISCN: accredited by, and strongly cooperating with the VDA-QMC; moderator of the German Automotive Initiative SOQRATES
(including Continental, Elektrobit, Hella, KTM, Magna Powertrain, ZF, etc.)
- Symbol: focus on Reliability and Quality
- TUG-ITI: Research Institute with focus on Embedded Systems

Project Information

- EMIRAcle: European Association

Themes:
*** Quality
*** Lifelong learning
*** Recognition, transparency, certification
*** Vocational guidance
*** Enterprise, SME
** Higher education
** Open and distance learning
* Sustainability
* ICT

Sectors:
*** Manufacturing
* Information and Communication

Product Types:
website
transparency and certification
teaching material
program or curricula
procedure for the analysis and prognosis of the vocational training requirement
open and distance learning

Product information:

Projecthomepage: http://automotive-knowledge-alliance.eu

Project Contractor

Name:	Graz University of Technology
City:	Graz
Country/Region:	Styria
Country:	AT-Austria
Organization Type:	university/Fachhochschule/academy
Homepage:	http://www.tugraz.at

Contact Person

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Coordinator

Name:	Graz University of Technology
City:	Graz
Country/Region:	Styria
Country:	AT-Austria
Organization Type:	university/Fachhochschule/academy
Homepage:	http://www.tugraz.at

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E-mail:	christian.kreiner@tugraz.at
Homepage:	http://www.iti.tugraz.at

Partner

Partner 1

Name:	Automobil-Cluster Clusterland Oberösterreich GmbH
City:	Linz
Country/Region:	Upper Austria
Country:	AT-Austria
Organization Type:	others
Homepage:	http://www.clusterland.at

Partner 2

Name:	International Software Consulting Network LTD (ISCN LTD)
City:	Bray
Country/Region:	Southern and Eastern
Country:	IE-Ireland
Organization Type:	SME - small and medium-sized enterprise (up to 250 employees)
Homepage:	http://www.iscn.com

Partner 3

Name:	European Manufacturing and Innovation Research Association (EMIRAcle)
City:	Brussels
Country/Region:	Bruxelles Cap, Brussel Hof
Country:	BE-Belgium
Organization Type:	research institution
Homepage:	http://emiracle.eu

Partner 4

Name:	Automotive Cluster Slovenia (GIZ ACS)
City:	Ljubljana
Country/Region:	Slovenija
Country:	SI-Slovenia
Organization Type:	others
Homepage:	http://www.acs-giz.si

Partner

Partner 5

Name:	Symbol BV
City:	Enschede
Country/Region:	Overijssel
Country:	NL-Netherlands
Organization Type:	National Agency
Homepage:	http://www.symbolbv.nl

Partner 6

Name:	European Certification and Qualification Association (ECQA)
City:	Krems
Country/Region:	Lower Austria
Country:	AT-Austria
Organization Type:	others
Homepage:	http://www.ecqa.org

Project Files

SSA Automotive - progress report.pdf

http://www.adam-europe.eu/prj/10446/prj/SSA%20Automotive%20-%20progress%20report.pdf

SSA Automotive: AQUA public progress report

Products

1 Joint Skill Set for the “Best and Next Practices in implementing ISO15504 Quality, ISO26262

2 Training Material for “Best and Next Practices in implementing ISO15504 Quality, ISO26262

3 Online Learning Management System configured with training material for “Best and Next Practices

4 Exam and self assessment questions for “Best and Next Practices in implementing ISO15504

5 Blended Online Trainings and Face-to-face Trainings for “Best and Next Practices in implementing

6 ECQA Job Role Committee for “Best and Next Practices in implementing ISO15504 Quality,

7 ECQA Certification for “Best and Next Practices in implementing ISO15504 Quality, ISO26262

8 AQUA project dissemination materials

Product 'Joint Skill Set for the “Best and Next Practices in implementing ISO15504 Quality, ISO26262 Functional Safety and Reliability in Automotive”'

Title: Joint Skill Set for the “Best and Next Practices in implementing ISO15504 Quality, ISO26262 Functional Safety and Reliability in Automotive”

Product Type: program or curricula

Marketing Text: A documented and agreed skills set, course syllabus for the aforementioned first AQUA training, and a pool of interest in Europe. The skills set will follow ISO 17024 compliant skills definition standards with skills units, skills elements, performance criteria. The skills set will be integrated in the online skills browsing system of ECQA.

Description: The Joint Skill Set contains the curriculum based on the needs analysis. The skill card is structured as follows:
- Knowledge domain / Job(Role) / Unit
- Element / Performance criteria
Defined skill set will be confirmed by all partners.
Skill set includes explanations (subtext) and cognitive levels for each topic or subtopic in the test. In turn, this skill set is the basis for ECQA certification

Target group: Thus the principal target group for AQUA, and the proposed initial training program, are experienced engineers from different disciplines, software architects, system architects, project managers, quality managers, and safety managers in the Automotive area.
As the proposed initial training addresses the interaction of the three topics quality, safety, and reliability, it is very well suited to support employees and unemployed in re-qualification.

Result:

Area of application: Automotive Industry VET skills and training syllabus

Homepage:

Product Languages: French
English
Dutch
Slovenian
German

product files

07-01-AQUA-skillcard-release1_1-integrated.pdf

http://www.adam-europe.eu/prj/10446/prd/1/1/07-01-AQUA-skillcard-release1_1-integrated.pdf
AQUA Skills Set Document

Product 'Training Material for “Best and Next Practices in implementing ISO15504 Quality, ISO26262 Functional Safety and Reliability in Automotive”'

Title:	Training Material for “Best and Next Practices in implementing ISO15504 Quality, ISO26262 Functional Safety and Reliability in Automotive”
Product Type:	teaching material
Marketing Text:	
Description:	Training materials include slides and student notes, plus references and best practice examples pool from Auotmotive Industry.
Target group:	
Result:	
Area of application:	
Homepage:	
Product Languages:	Dutch French English Slovenian German

Product 'Online Learning Management System configured with training material for “Best and Next Practices in implementing ISO15504 Quality, ISO26262 Functional Safety and Reliability in Automotive”'

Title:	Online Learning Management System configured with training material for “Best and Next Practices in implementing ISO15504 Quality, ISO26262 Functional Safety and Reliability in Automotive”
Product Type:	open and distance learning
Marketing Text:	
Description:	Online training materials and configured LMS (Learning Management System) wil reside on the ECQA platform – the online training system will be prepared by converting the training materials to multimedia presentations and by adding assignments, discussion forums, references etc.
Target group:	
Result:	
Area of application:	
Homepage:	
Product Languages:	

Product 'Exam and self assessment questions for “Best and Next Practices in implementing ISO15504 Quality, ISO26262 Functional Safety and Reliability in Automotive”'

Title:	Exam and self assessment questions for “Best and Next Practices in implementing ISO15504 Quality, ISO26262 Functional Safety and Reliability in Automotive”
Product Type:	
Marketing Text:	
Description:	Multiple choice test questions for the exam and self assessment – for each learning element about 15 questions will be developed in total approx. 150-250 questions. Questions will be integrated to the European Certification and Qualification (ECQA) exam system.
Target group:	
Result:	
Area of application:	
Homepage:	
Product Languages:	

Product 'Blended Online Trainings and Face-to-face Trainings for “Best and Next Practices in implementing ISO15504 Quality, ISO26262 Functional Safety and Reliability in Automotive”'

Title:	Blended Online Trainings and Face-to-face Trainings for “Best and Next Practices in implementing ISO15504 Quality, ISO26262 Functional Safety and Reliability in Automotive”
Product Type:	open and distance learning
Marketing Text:	Blended Online Trainings and Examination – the online training will be conducted as an asynchronous course with a blended learning approach -> tutors will invite the users to participate in online virtual discussions about open questions, assignments and topics from the trainings.
Description:	
Target group:	
Result:	
Area of application:	
Homepage:	
Product Languages:	

Product 'ECQA Job Role Committee for “Best and Next Practices in implementing ISO15504 Quality, ISO26262 Functional Safety and Reliability in Automotive”'

Title:	ECQA Job Role Committee for “Best and Next Practices in implementing ISO15504 Quality, ISO26262 Functional Safety and Reliability in Automotive”
Product Type:	others
Marketing Text:	
Description:	The ECQA Job Role Committee consists of a number of experts in a given profession, who initiate, develop and frequently revise a profession within the ECQA training and certification schema. Since the JRC group provides the knowledge and material needed for certification and training, the group has the right to decide upon policy related to the profession in alignment to overall ECQA strategy and processes.
Target group:	
Result:	
Area of application:	
Homepage:	
Product Languages:	

Product 'ECQA Certification for “Best and Next Practices in implementing ISO15504 Quality, ISO26262 Functional Safety and Reliability in Automotive”'

Title:	ECQA Certification for “Best and Next Practices in implementing ISO15504 Quality, ISO26262 Functional Safety and Reliability in Automotive”
Product Type:	transparency and certification
Marketing Text:	
Description:	
Target group:	
Result:	
Area of application:	
Homepage:	
Product Languages:	

Product 'AQUA project dissemination materials'

Title: AQUA project dissemination materials

Product Type:

Marketing Text:

Description: Dissemination Materials and Activities include:
-Direct focused dissemination to decision makers
-Promotion of the project at partner events
-Promotion of the project at the EuroSPI, Automotive Sys and CIRP conference series
-Project website
-Promotion of the project on the partners websites
-Printed dissemination materials like flyers, posters, brochures and leaflets, etc.
-E-newsletters
-Links to business social network groups

Target group:

Result:

Area of application:

Homepage:

Product Languages: