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Sector Skills Alliance for the design and delivery of innovative VET programmes to Data Science and Internet of Things professionals

Project overview

- **Program**: Erasmus+ KA2: Cooperation for innovation and the exchange of good practices - Sector Skills Alliances
- **Call ID**: EACEA-04-2017
- **Lot**: Lot 2, SSA for Design and Delivery of VET
- **Project Number**: 591848-EPP-1-2017-1-EL-EPPKA2-SSA
- **Grant Agreement Number**: 2017-3184/001-001
- **Project Coordinator**: University of Patras
- **Duration**: 36 months
- **Number of Partners**: 12
- **EU grant**: 982.537 €
- **Start Date**: 1st December 2017
- **End Date**: 30th November 2020

Consortium

Needs and challenges

- Addressing the skills' gap of Data Science (DS) and Internet of Things (IoT) professionals.

- Contributing to the increased demand of industry's sectors other than ICT (e.g. banking, energy, logistics) for high-qualified DS and IoT professionals.

- Providing the DS and IoT professionals with skills and competences, that are transferable and recognized among European countries.

- Making the vocational trainings more relevant to the actual needs of the labor market.

Key objectives

- Define vocational trainings' learning outcomes for the occupational profiles of DS and IoT professionals.

- Design a common reference scheme of competences, skills, knowledge and proficiency levels for DS and IoT professionals in accordance with European frameworks (e.g. eCF framework and ESCO).

- Design two modular learning outcome oriented VET curricula, one targeting DS and another IoT taking into consideration EQAVET.

Key objectives

- Design a mechanism for the certification of the provided skills and competences.

- Making recommendations for the validation, certification & accreditation of the provided VET program and its alignment with NQFs, EQF and ECVET.

- Delivery of vocational trainings into three phases
  – e-learning,
  – face-to-face and
  – work based learning.

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Target Groups

- IT professionals and associations
- VET providers
- Certification bodies
- Higher Education Institutes
- Companies & SMEs
- Policy-makers

Main results

- Learning outcomes of the vocational trainings targeting DS and IoT.
- A reference scheme of competences, skills, knowledge, and proficiency levels for DS and IoT professionals.
- Two modular learning outcome oriented vocational curricula, one targeting DS and another IoT professionals.
- Training material for the implementation of the two VET programs.
- A training methodology for the delivery of the VET programs.

Main results

- A methodology for the assessment of the learners during the delivery of the VET programs and their tracking after the end of the VET programs.

- A mechanism for the certification of the provided skills, knowledge and competences.

- A survey for the validation, certification & accreditation of provided VET programs and their alignment with NQFs, EQF and ECVET.

- A set of exploitation toolkits for higher education institutes, VET providers and enterprises.

- Three workshops organized in Greece, Cyprus and Bulgaria.

- One conference organized in Greece.

Work Breakdown

WP2 goals

- To design the learning outcomes of the modular VET programs.

- To define a reference model for the interpretation of existing research evidence into specific skills, e-competences and qualifications needs of DS and IoT professionals.

- To design the learning outcome based vocational curricula and its educational modules.

- To design the trainings' methodology together with the methodology for the trainings' assessment and monitoring.

WP3 goals

- To develop the training material for the delivery of vocational trainings to DS professionals

- To develop the training material for the delivery of vocational trainings to IoT professionals

- To develop the training material for transversal skills development

WP4 goals

- To make recommendations for the alignment of the vocational trainings with NQF of participant countries, EQF and ECVET

- To implement the certification scheme of DS VET programme

- To implement the certification scheme of IoT VET programme

WP5 goals

- To design and implement the online courses environment.

- To deliver the vocational trainings to the target groups at the three phases.

WP6 goals

- To ensure that the quality of the outcomes, outputs and activities of the project are maintained at a high standard.

- To assess any potential risks.

- To assess the impact of the project to all stakeholders.

- To establish a learners' tracking and feedback framework for evaluating their progress.

WP7 goals

- To increase the visibility and the impact of the project on the participating countries and across the EU, so that the outputs can be transferred to other countries and areas.

- To increase the visibility and the impact of the project on those involved in DS and IoT technologies.

- To link the project practices and results in companies that employ DS and IoT professionals.

Thank you!

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