



EduMECCA is an EU-funded LLP-ICT project that brings together 7 partners from different European countries. It aims to disseminate **Activity Based Training (ABT)** into 2 lifelong learning sectors, by developing **new Student Response Systems** for **iPod Touch, iPhone and PC**. The Student Response System adds significant benefits to both instructor and students: the instructor gets immediate feedback on how well the students follow a lecture; while the students get instant feedback on their understanding of key concepts. The SRS integrates a simple, web-based interface for the teacher with next-generation mobile devices which the students use to provide feedback during lectures.

ABT may be utilized in skills upgrading processes where theory and practice are closely connected. Welding courses are structured according to International Institute of Welding guidelines.



#### CONTRACTOR



Sør-Trøndelag University  
College (Norway)

#### PARTNERS

MHtE (Hungary) VuZ-PI SR (Slovakia)

IzV (Slovenia)

HiST Contract Research (Norway)

Smartcom Interactive (Sweden)

University of Huddersfield (UK)



Education and Culture DG

Lifelong Learning Programme

# EDUMECCA



#### CONTACT AND MORE INFO

[HTTP://PROSJEKT.HIST.NO/EDUMECCA](http://prosjekt.hist.no/edumecca)

LLP TRANSVERSAL PILOT PROJECT  
2009 - 2010



## VIDEO AND MULTIMEDIA

ABT may be utilized as a blended learning framework: *face-to-face on-site training, e-learning solutions, high quality videostreaming, and video conferencing*

### Classroom

Video and face-to-face training

### Industry cases

**HOW to DO** and **HOW NOT to DO.**

ABT follows the industrial production processes, utilizing workorders and work packages

### Video streaming

Video streaming on a Smartboard.

Teacher makes digital notes.

Notes are afterwards published on the Internet

# New Educational Models that Encourage Creative transfer of Competence and Acquaintance in Lifelong Learning

## AIMS

EduMECCA aims to raise the awareness of and expand learning skills by implementing the unique, brand new inquiry- and problem-based blended learning **Activity Based Training** (ABT) methods in two lifelong learning training sectors: **welders** and **welding engineers** in **Slovakia, Hungary, Slovenia, Sweden and Norway**. EduMECCA disseminates new methods for delivering in-company skills upgrading processes that reduce the costs related to competence and knowledge transfer, and enhances production competence and know-how transfer to VET schools.

ABT introduces the industrial production flow as the educational framework. ABT courses implement an experimental learning by doing training approach where students during the course **produce a product** according to standard industrial production processes. ABT facilitates sharing of state of the art industrial production know-how by utilizing:

- Just-in-time, on-the-job production workflow competence and knowledge discovery learning approach
- A learning-by-doing pedagogical model where theoretical training is always immediately followed by practical training
- Video technology as a catalysis for creative and lateral problem solving targeting “How to DO” and “How NOT to DO”
- New inquiry- and problem-based Quality Assurance of training methods where

students share industrial production knowledge by exchanging their products during a course.

## RESULTS

- Seminars for knowledge sharing and promotion of ABT creative skills in lifelong learning in 5 European societies
- Deliver ABT courses to welders and welding engineers in each of the 5 European countries
- Provide instructor training in 5 European countries
- Develop a new type of student response system for iPod Touch, iPhone and PC
- Seminars and workshops for transfer of knowledge to stakeholders in Europe.

## IMPACT

Disseminate **ABT methodologies** and the **Student Response System** in 5 European countries. This includes

- Vocational Education and Training schools
- Adaption of ABT methods to higher educational institutions

Institutions from two educational sectors may use the new ABT methods to offer a broad range of specialized courses at a European level, since ABT follows the European Welding Federation guidelines for harmonized qualifications, examinations and certifications.