

ILEARN2MAIN

INDUSTRIAL TRAINING SYSTEM FOR MODERN ENTERPRISE MAINTENANCE

Consortium

iLearn2Main engages stakeholders from a wide spectrum: Industry, research and academic partners, industrial associations, organisations related to innovation diffusion and knowledge transfer; research institutions involved in educational and e-learning technology. Thus, the consortium composition ensures the highest quality professional training outcome.



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European Commission



Leonardo da Vinci

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In the manufacturing sector, global competition, characterised by both a technology push and a market pull, the rapidly evolving technology and increased customer requirements present considerable challenges for industrial management and technical personnel. Modern enterprises cannot afford to under-utilise internal resources, being material or human. Performance and quality maximisation is sought, among others, through asset (equipment) and human resources (training) management and safety criteria should be continuously met. Assets life cycle costs should be kept down, while securing proper operations and smooth internal logistics. Recent studies have shown that costs directly related to maintaining enterprise production equipment rise to 4%-8% of total turnover. Indirect costs related to the impact of poor asset management on quality, performance and production constraints, is estimated to be in the same order. Such findings reveal the profound importance of providing adequate training to personnel, involved with all maintenance management - related activities in a modern enterprise.

"A Road Map for Natural Capitalism", Journal article by Amory B. Lovins, L. Hunter Lovins, Paul Hawken, Journal of Business Administration and Policy Analysis, 1999

Need statement

SME's & Maintenance in Europe

During the last decade, European governments as well as the European Community are also recognizing the importance of maintenance and as a result we see that in their national programs supporting development and growth of local business as well as in white papers, they have adopted Maintenance terminology. Representing 99% of all enterprises in Europe, SMEs account for around two thirds of European GDP and provide 75 million jobs in the private sector. They are therefore key for the implementation of the renewed Lisbon partnership for economic growth and employment². Manufacturing is important to the European Union. There are some 2.5 million manufacturing enterprises employing 18-20% of the workforce in the EU and generating approximately 22% of the EU GDP.

In addition, there are plenty of other sectors like energy, transport, process industries, etc. where maintenance plays a profound role.

This underlies the importance of maintenance and yet systematic maintenance management practice and the tools to support it are often missing. Organisations don't have a clear picture of what Maintenance best practices are, as the term has been used in different contexts from academics, practitioners, consultants and policy makers. Ultimately, Maintenance should not be treated merely as a source of costs, but instead as the way to give value to Engineering Assets.

²http://ec.europa.eu/growthandjobs/index_en.htm

2.5 mil
enterprises

20%
WORK FORCE

22%
EU GDP

Project Aims

The iLearn2Main project aims to bring the right innovative training and training tools to the right people, in order to improve Maintenance Management practice in modern production units. The direct objectives are as follows:

- improve qualifications and employability of industrial workers by adequate VET training, in line with the Copenhagen declaration
- enhance procedures for improving production equipment life cycle and produce better quality products
- enhance procedures for meeting production constraints and improve performance efficiency
- enhance procedures for meeting environment and safety requirements
- improve total plant cost effectiveness

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Project Innovation

To meet these targets, iLearn2Main will employ innovative e-learning technologies, offering customisable and personalised training to staff, while facilitating the standardisation of competencies assessment and learning evaluation. Some of project's innovative elements include: Learner-centric Learner Management System (LMS), following world standards in e-learning content delivery; a competence assessment methodology taking into account the EFNMS (European Foundation of National Maintenance Societies) specifications; customised course, based on learning paths and skills assessment; customised learning environment, based on learner profile, roles and inputs from stakeholders.



Target Groups

iLearn2Main target groups include both trainers and learners. The trainer target group is personnel involved in maintenance-related training, maintenance consulting services, while learner types can be employed or unemployed adult learners, who may hold or be targeting positions for:

- **Managerial personnel:** their needs are determined by the necessity to make rational decisions related to maintenance of industrial equipment and human resources allocation.
- **Senior engineering personnel:** their needs are related to the need to make appropriate choices to ensure adequate maintenance policies and technological solutions.

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