

Project Overview

Goals

- Application of e-learning based on information technology and multimedia
- Implementation in networked systems for staff training and further education in microelectronics manufacturing
- Encouragement of continuous lifelong learning for highly skilled staff

Project Objectives

- creation, set-up and demonstration of new modules and courses for education, learning and training
- target groups: operators, technicians, engineers and managers
- focused on industry-driven requirements adjusted to the daily work in a factory
- application of web-based learning and training platforms

Project Duration

- June 2002 - September 2005

Do you plan to use E-Learning?

What is your idea of E-Learning?

Project Coordinator:

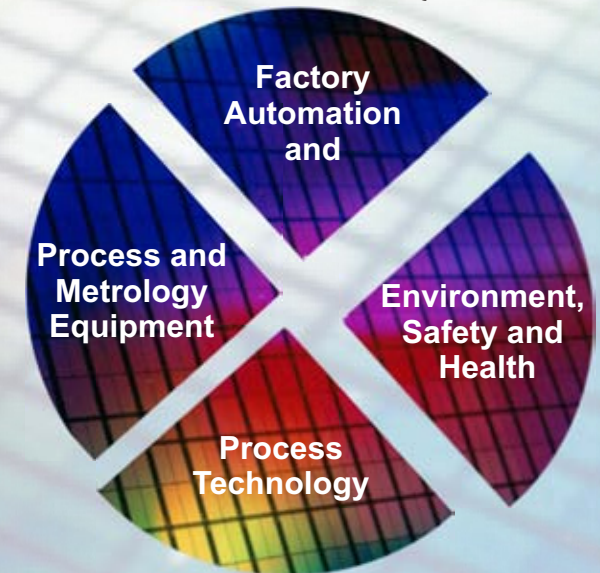
Fraunhofer Institute of Integrated Systems and Device Technology, IISB
Dr. Richard Öchsner
Schottkystrasse 10
D-91058 Erlangen
Phone: +49 (0) 9131/761-116
E-Mail: richard.oechsner@iisb.fraunhofer.de

E-Learning for Microelectronics Manufacturing



www.e-limm.org

EC-funded project



Funded by



IST-project (IST 2001-34828)

E-Learning for Microelectronics Manufacturing

Topics of Content

Factory Automation and Operation

- **Factory - Operation**
fab aspects, facility management and efficiency engineering
- **Factory Automation**
hard- and software automation

Process and Metrology Equipment

- **General Aspects of Semiconductor Equipment**
current and future needs, overview application
- **Equipment Automation**
components, sub-components, interfaces
- **Integration and Operation of Equipment in a Semiconductor Manufacturing Environment**

Process Technology

- **General Process Flow**
(FEOL and BEOL)
- **Process Modules**
interaction with each other and influence on device behaviour
- **Process Steps**
detailed insight into individual processing steps

Environment, Safety and Health

- **Safety**
hazards and their prevention, emergency preparedness, accident reporting
- **Environmental**
environmental aspects and environmentally benign manufacturing
- **EHS Regulations, Industry Standards, Agreements and Management Systems**
- **Health Hazards and First Aid**

Integration of Content

- specification of didactics and education needs
- requirement definition for and comparison of technical platforms
- embedding and implementation of content
- management of user-training and system implementation