



UNITED NATIONS
INDUSTRIAL DEVELOPMENT ORGANIZATION



SUSTAINABLE DEVELOPMENT GOAL 9
INDUSTRY, INNOVATION AND INFRASTRUCTURE

e-Learning and Blended Training in the Leather Professional Education

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5-8 February 2017



Training/Learning practice



Face to
face
learning



On the job
learning



Self-study
learning



Distance
learning

Traditional learning practice

Limitation of traditional classroom training

- **Timely and geographically limited** – requires synchronization of physical presence of all parties concerned
- **Places value on standards, curriculum and test results** – limited focus on the big picture of the learner's progress
- **Pulls results around averages** – it cannot devote sufficient time and effort to those advancing slower or better learners
- **Lacks interactivity** – learners receive few opportunities to practice group dynamics and teamwork
- **These restrictions leads to high costs** for UNIDO's activities and low efficiency and effectiveness
- Yet face to face training cannot be fully replaced



Traditional tools	New tools
Paper (hard copies of books, catalogues, journals, magazines, etc.)	eBooks (.pdf; web based applications)
Audio-visual tools such as slide, overhead, film and video projections and recorded voice;	Power Point Presentations, mp3
Samples, functional models	Simulation, visualization, animations
?	Virtual reality, Augmented reality

Online learning / e-Learning

Education in which instruction and content are delivered primarily over the Internet

- ✓ Computer Assisted Training
- ✓ Video Conferencing
- ✓ Webinars
- ✓ Blended learning
- ✓ Computer – supported collaborative learning (e-Learning 2.0)



Courses

(On-line; blended, webinars)

Informal

(Blogs, Wiki, Google)

eLearning categories

Knowledge Management

(Available resources e.g.
LeatherPanel)

Networked

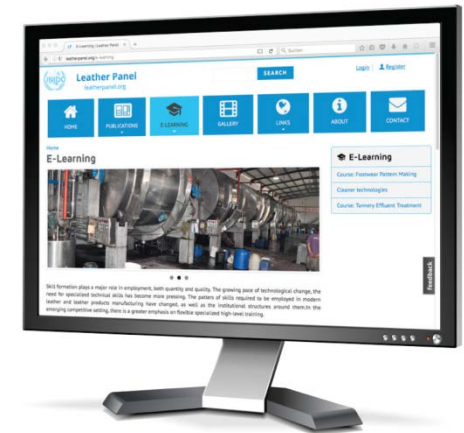
(Chatrooms, discussions)

Knowledge Management - LeatherPanel.org

- More than 150 guidelines/papers available
- More than 400 links
- 60 Lessons and self-tests
- Overview of activities

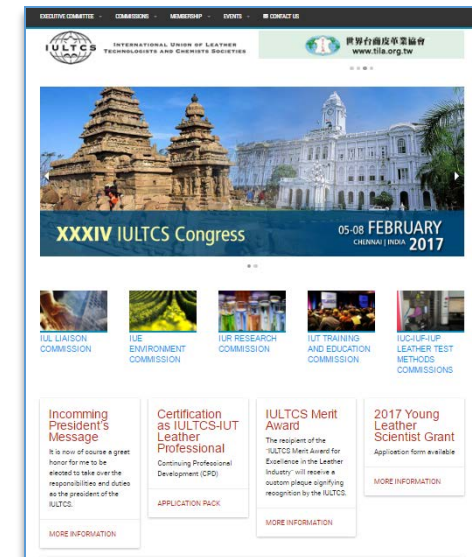
Statistics 2016

- Users from more than 190 countries
- More than 28,000 downloads, links used
- More than 36,000 users

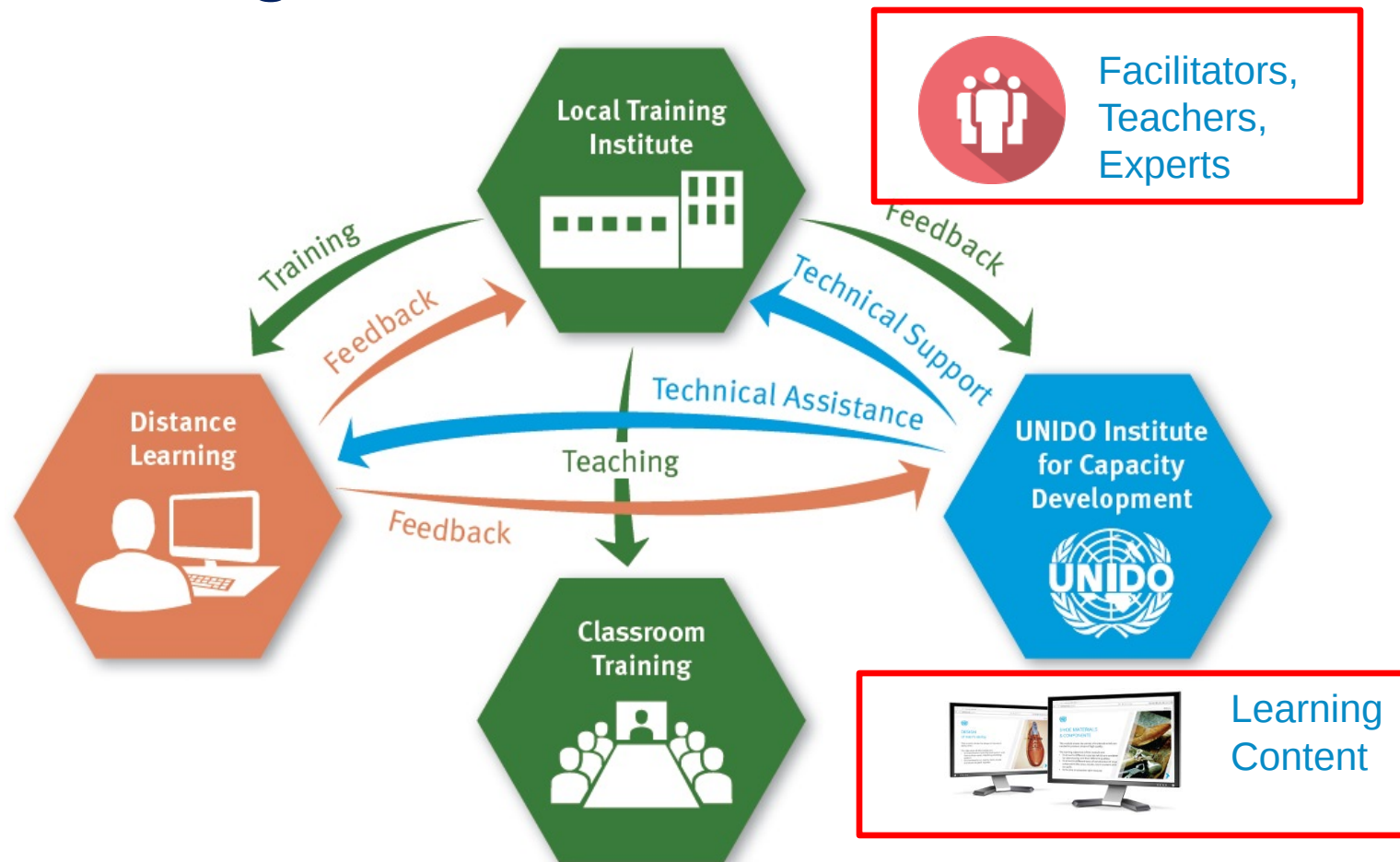




Leather Industry eLearning Tools



eLearning 2.0 - Environment



eLearning - requirements

- **Hardware** – Computers, Internet
- **Learning content:** Availability of electronic learning material
- **Learning Content Development** (Learning Tools)
- **Learning Management System**
- **Teachers, Experts, Facilitators**
- **Students, Trainees**
- **Learners skills** of handling and using computers



UNIDO's eLearning courses (Learning content)

- i. **How to deal with hydrogen sulphide** (Launched 09/2016)
- ii. **First Aid & Safety at the Workplace** (Launched 12/2016)
- iii. **Introduction to the Treatment of Tannery Effluents**
(2012)
- iv. **Sustainable Leather Manufacture** (under development)
- v. **Footwear Pattern Engineering** (2012)



Learning Management System

- Organizing and recording all activities (“virtual classroom”)

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How to Deal With Hydrogen Sulphide Gas

Dashboard ▶ ONGOING COURSES ▶ H2S Safety

NAVIGATION

Dashboard

Site home

Site pages

Current course

H2S Safety

Participants

Badges

General

Step 2: eLearning Module: How to deal with Hydroge...

Step 3: Test

Certificate

Discussion Forum

My courses

ADMINISTRATION

Course administration

Turn editing on

Edit settings

Course completion

Help

How to deal with HYDROGEN SULPHIDE GAS

in tanneries and effluent treatment plants

Please make sure to follow these steps in order to gain awareness of hydrogen sulphide and get your certification:

- STEP: Provide your personal data in our short questionnaire.**
- STEP: Read through the eLearning module "How to deal with hydrogen sulphide gas"** and learn all about the dangers and safety risks. Make sure to read the entire module! (The self-test in the module is not relevant to your score in this course, it is simply a self-test. Make sure to take it at least once though.)
- STEP: After reading the entire module take the test** and answer all questions.

Certificate: In order to get your certificate you must **provide your personal data**, **read the entire eLearning module** and **pass the test by 80 %**. After finishing all the three tasks you will receive the certificate and will be able to download it.

Have fun and enjoy this short eLearning course!

Your progress

SEARCH FORUMS

UPCOMING EVENTS

RECENT ACTIVITY

Turn editing on

INCLUSIVE AND SUSTAINABLE INDUSTRIAL DEVELOPMENT

WWW.UNIDO.ORG

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UNIDO's eLearning courses (Learning content)

Modular approach

**First Aid at
the
Workplace**

**Introduction
to the
Treatment of
Tannery
Effluents**

**How to
deal with
Hydrogen
Sulphide
Gas**

**Sustainable
Leather
Manufacture**

Course: How to deal with hydrogen sulphide gas



Launched: 15 September 2016

Users: from 20 countries (status 20 January 2017)

Languages: English, Hindi, Polish, Swahili

Course: First Aid at the Workplace

Module 1: The First Aid Kit



Module 5: Contusions



Module 2: Heart Attacks



Module 6: Eye Injuries



Module 3: Burns



Module 7: Severe Bleeding



Module 4: Accidents involving Chemicals



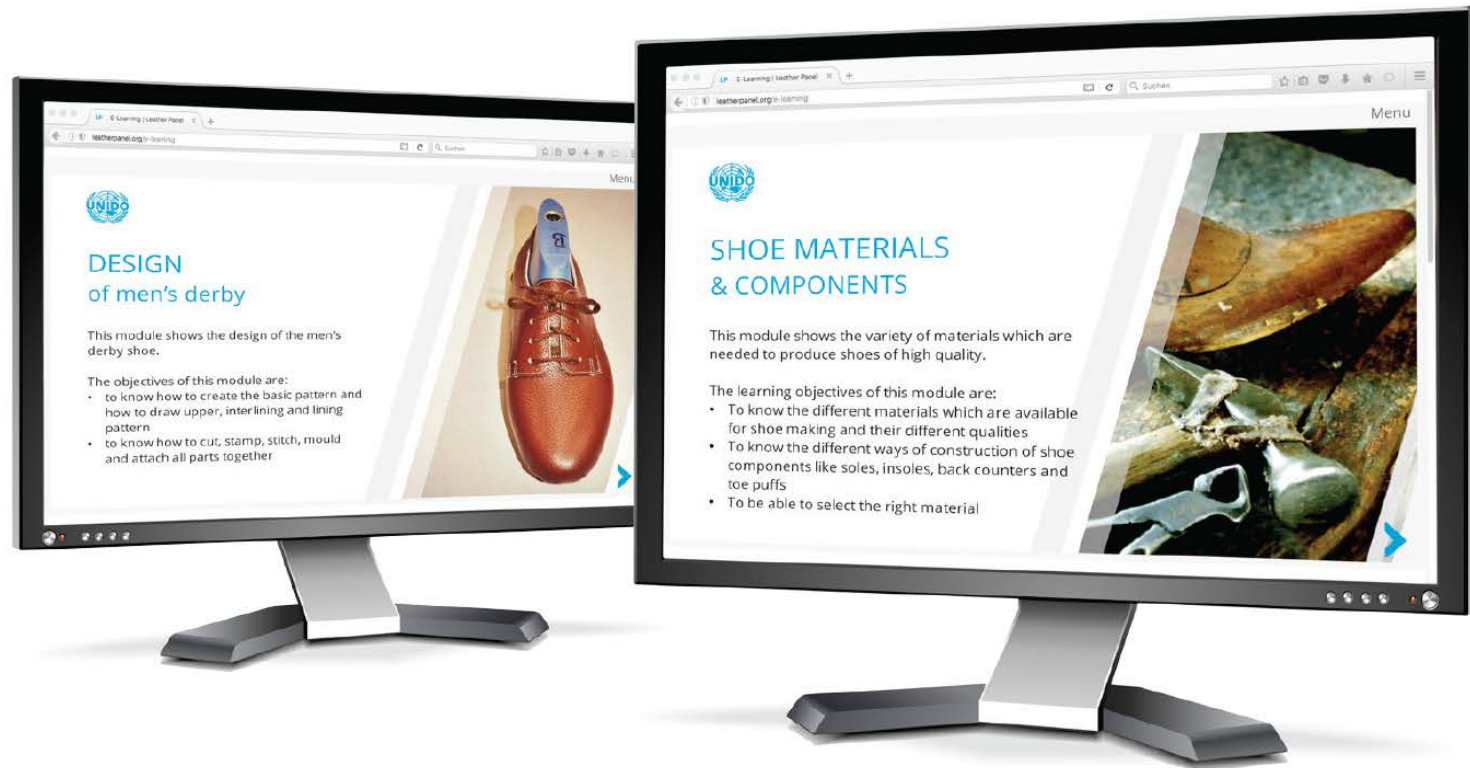
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United Nations Industrial Development Organization (UNIDO)

eLearning & training tools: experience and conclusions



Features of modern learning system

- Flexible
- Modular
- Complementary
- Cost effective
- Efficiency
- Interactive
- Suitable for classroom training (face to face)
- Suitable for self- learning
- Contributes to Life-Long Learning
- Cooperation among different institutions
- Promising and encouraging results

Challenges

- eLearning tools and content for the leather value chain almost non existing
- Leather training institutions with limited offers of on-line courses
- Cooperation among training providers
- Learning content development (resources)
- Learning management systems
- Courses accreditation
- IT security



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THANK YOU

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