



SESKO Project



SESKO's  
Student Project  
2006 - 2008

# Why? - Background

- Many companies and communities have noticed that newly graduated engineers and other technical professionals are not familiar with standards of their own professional area.
- It seems that in Finland it is possible for a person to graduate as an engineer even without touching on his/her line-specific standards.
- After coming to business-life the newly graduated engineer will still have close contact with standards.
- The companies have to teach their recruits the purposes and use of standards of their own area due to lack of knowledge.
- What will be the influence, for instance, on attitude of safety, if standards and safety factors are never mentioned during studying

# Why? - Facts

- A familiarity of standards in technical field is a big part of basic professionals skills.
- The standards are often a continuation of legislation.
- The standards give advantages: adequacy of functions, compatibility, interchangeability, optimization of selection, safety, environmental protection, product planning etc.
- It is easy to show that products and services, which are in accordance with standards, fulfill the demands of safety, functioning, etc.
- If a student or newly graduated person knows standards, it makes it easier for him/her to get a job.

# What?

- SFS and SESKO prepared for the students and teachers of technical area a project whose purpose is to
  - **improve** knowledge of technical students about their line-specific standards and standardization of their own general area.
  - **support** the teachers through familiarization of standards and by using standards as instruments of teaching.

# Which objectives?

- To enable the familiarization of standards to enter into one part of systematic technical teaching (study programme)
- To enable the students' use of standards at reasonable prices (the special collection of standards for the students)
- To produce updated and easily accessible material, which supports teaching and familiarization of standards and standardization.
- To get standards and standardization well-known among students.

# What? How?

- We have produced
  - **teaching material** which teachers can benefit from as a tool in their lessons.
  - **material for students** which they can benefit from in their studies and as an information source about standardization.
  - **standard collections** at low prices for students
  - **exercise material** for self-access to support studies and to test knowledge of standards

# How? - Operations

- We have
  - 1) arranged many **events** for technical students and teachers during 2006 and 2007.
  - 2) published two **handbooks** of standards for students.
  - 3) published **material** for students and teachers in [www.sesko.fi](http://www.sesko.fi) (slide-shows etc.)
  - 4) introduced standards and standardization as **one part of study programmes** in educational institutes and universities.

# How? - Operations

- 1) We have arranged many events (seminars, lectures etc.) for technical students and teachers during 2006 and 2007

2006	2007	2008
Polytechnic in Tampere (120) Technical university of Tampere (30) University of Vaasa (65) Seminar for the teachers (50)	Technical training centre in Kokemäki (200) University of Vaasa (40) Polytechnic in Pori (45) Seminar for the teachers (40)	Technical University in Espoo 03/2008 Polytechnic in Tampere 05/2008 Two seminars for the teachers (08/2008 and 10/2008)

# How? - Operations

2) We published **handbooks** of standards for students.

SFS 600 Handbook of low voltage installations

- 2006 – 2007            about 1200 exemplars

SFS 174-1 ja SFS 174-2: Handbook of automation  
(two-piece)

- 2006 – 2007            about 100 exemplars

# How? - Operations

3) We have published **material** for students and teachers in [www.sesko.fi](http://www.sesko.fi) (slide-shows etc.)

- slide-shows in SESKO's websides (9 items)

In the future we will create in co-operation with the educational institutes

- questionnaires
- games

# How? - Operations

4) We have introduced standards and standardization as **part of the study programme** in some educational institutes and universities.

- Updated list of electro-technical standards for vocational schools in Finland (2007)
- A lecture in standardization as part of a study programme in Vasa University
- A lecture in standardization as part of a study programme in Technical University of Espoo (2008)

# How? - Operations

## 5) Other procedures

- Links from the websites of educational institutes and universities to SESKO's sides
- Articles in journals and bulletins of the students