

Safety instructions (modified: August 29, 2011)

As an institute of education we must be **models** as for **occupational safety**. Although the university level education and research are predominantly theoretical, there are a lot of activities with risks of accident and health hazard. The safety of oneself, colleagues, students, and third parties should be reckoned with in

- lecture demonstrations,
- student exercise and projects,
- research, as well as
- in any other activities, such as in recruitment exhibitions.

Instructing students to industrial safety is also a natural part of a technology oriented degree programs.

Occupation safety is reached by proactive activity that is in accordance with laws and regulations. Safety is also a part of our quality system.

The goal is zero accidents.

If, despite all the caution, an accident occurs or is close, one must report it to his/her superior.

TURN OVER!

Comply with the following instructions:

- **Keep a health attitude towards safety.**
- Busyness is no reason to take risks.
- **Evaluate risks** and necessary **precaution**. **Ask advice** if you don't know or can.
- **Keep an eye on** the activities of your own and others. Interfere immediately if risky actions are taken.
- Read manuals, such as:
 - the security plan of Technobothnia,
 - safety instructions of machines and robots, and
 - regulations of chemicals.
- Observe the purpose of different facilities, and keep the facilities in order:
 - use machines only at Technobothnia,
 - some larger machines are available at the workshops of Technobothnia,
 - use chemicals only at Technobothnia, in fume chamber or biofuel laboratory when needed,
 - soldering of electronics only at Technobothnia,
 - the use of instruments and safe devices is allowed according to the rating (e.g., IP class) of each apparatus.
- Working with fire is allowed ONLY for licensed persons in the particular places.
- Electrical installations are allowed ONLY when Extra Low Voltage (ELV) is concerned, unless you are licensed.
- A training is required before using industrial robots. It is prohibited to use robot alone, unless otherwise is agreed.
- ALWAYS use the necessary **personal safety equipment**:
 - **safety goggles** when using **machines**, or chemicals that can spatter,
 - laser safety goggles when using efficient lasers (classes (2), 3, and 4),
 - appropriate **gloves** when handling sharp objects (such as metal sheet and drilling flakes), chemical, or objects with a hazard of infection,
 - Hearing protectors when using noisy machines.
 - Personal safety equipment can be found in TF4111 at Technobothnia.
- Do not climb!
- Do not lift heavy objects! If necessary, use fork-lifts and other aids, such a movable tables.
- Only tasks related to your work may be carried out at Technobothnia.