

Training Record

Training and subsequent knowledge verification from general safety rules, and local safety rules in PC-Classrooms and PC-laboratories at VŠB – Technical University of Ostrava. Training content fulfills the requirements of EN 50110-1 – instructed persons and Decree 50/1978 Coll. (§4)

Department: Control Systems and Instrumentation - 352 *Academic year:* 2018/2019

Laboratories: H 303, H 306, H 309, H 310, F 203, F 204, F 205, F 206, F 232, F 233, F320, RC107

Students signed below confirm their taking part in this training. They claim to be fully acquainted and instructed about the local safety rules for operating the electrical installation in PC-Classrooms and PC-laboratories in the scope attached to this record. The content of this training is, besides to Local Safety Rules, measures of protection against electric shock and basis of first aid by electric shock. By placing the signature, students confirm they fully comprehended the lesson, and all questions have been answered to them by the teacher. The teacher confirms the students' successful knowledge verification of the training. The scope of this training is attached as Attachment 1, which is a part of this record.

No.	Name and Surname	Student's ID	Training Date	Trainee signature
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The training and knowledge verification from general safety rules and local safety rules applicable for PC-Classrooms and PC-Laboratories of VŠB – Technical University of Ostrava was performed by:

Date:

Class:

Name:

Signature:

Attachment 1: **Scope of training for instructed persons, Decree 50/1978 Coll. (§4)**

- ❖ Applicable for students of all grades and departments at VŠB-TU Ostrava,
 - ❖ Training duration approx.. 60 minutes
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1. Safety at electrical engineering

- 1.1 Act. 262/2006 Coll. - Labour code:
 - a) responsibility and duties of students and assistants (university);
 - b) personal protective equipment;
 - c) prohibited activities;
- 1.2 Competences of instructed persons (§4, Decree 50/1978 Sb., EN 50110-1);
- 1.3 General safety rules for operation of electrical installation ČSN EN 50110-1 ed. 3 and TNI 34 3100;
- 1.4 Colour coding principles of conductors, indicators and actuators (EN 60445 ed.4, EN 60073 ed.2);
- 1.5 General rules and measures of protection against electric shock (EN 61140, HD 60364-4-41).

2. Fire codex in laboratories

- 2.1. Fire risks and fire protection in laboratories;
- 2.2. Extinguishing of electrical installations;
- 2.3. Telephone numbers for emergency calls, announcing of fire in premises of VSB-TUO

3. Local safety rules in PC-Classrooms and PC-Laboratories

- 3.1 Definition of PC-Laboratories and PC-Classrooms;
- 3.2 Local safety rules, duties and responsibilities of students, list of particular risks.
- 3.3 Working conditions, work procedures, list of prohibited activities;
- 3.4 Rules for HW a SW use in PC-Laboratories and PC-Classrooms.

4. Effects of electric current on human beings, first aid by electric shock

- 4.1 Physiologic effects of electric current on human beings;
 - 4.2 Conditions of electric shock occurrence;
 - 4.3 Classification of voltages according to electrical risks;
 - 4.4 First aid by electric shock
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Attachment 2:

- ◆ The classrooms for practical lessons equipped with personal computers (PCs) are divided into PC-Laboratories and PC-Classrooms.
- ◆ The classroom is utilized as PC-Classrooms in case of lessons provided with support of PCs, or office equipment (printers, scanners etc.) This covers operation of PCs or office equipment only according to issued operation manuals, e.g. for ordinary persons.
- ◆ The classroom is utilized as PC-Laboratory in case that work tasks involve operation not specified for PC-Classrooms. This may encompass measurements in extra low voltage circuits with using PCs for measurement, experimental and laboratory tasks applied in electrical equipment that are not defined as operation according to users manuals, hardware configuration changes, processing of microprocessors/ electronic circuits I/O signals etc.