



## RTU Course "Basics of Labour Protection"

22200 Darba un civilās aizsardzības institūts

### General data

|   |   |
|---|---|
| Code  | IDA700  |
| Course title  | Basics of Labour Protection   |
| Course status in the programme  | Compulsory/Courses of Limited Choice  |
| Course level  | Undergraduate Studies   |
| Course type   | Professional  |
| Field of study  | Environmental Engineering and Management  |
| Responsible instructor  | Jānis Bērziņš   |
| Academic staff  | Jānis Ieviņš<br>Valentīna Urbāne<br>Jānis Bartušauskis<br>Regīna Osipova  |
| Volume of the course: parts and credits points                        | 1 part, 1.0 Credit Points, 1.5 ECTS credits   |
| Language of instruction   | LV, EN  |
| Possibility of distance learning                                      | Not planned   |
| Abstract  | The study course provides basic knowledge about labour protection framework, legal acts for labour protection, taking into account the International Labour Organization conventions and requirements of the EU legal acts. Students acquire skills to create in-house basis for normative acts, taking into account the type of enterprise's activity. Students acquire basic understanding of the risks in the work environment and the methods of their elimination. Students acquire basic knowledge of labour protection monitoring system principles in enterprise or institution.  |
| Goals and objectives of the course in terms of competences and skills | The aim of the study subject "Fundamentals of Labour Protection" is for students to acquire knowledge of the system of normative acts in the country, the common risks in the work environment, risk threshold value and risk assessment methods, to acquire skills of creating labour protection monitoring system in enterprise or institution. Students have gained an understanding of the legislative system of the country, its application in enterprise or institution. Students have developed an understanding of the work environment risks, their distribution according to the nature and admissible threshold value.  |
| Structure and tasks of independent studies                            | During the course students complete two independent tasks, by choosing labour protection legislative basis followed in a particular company, and creating the company's labour protection monitoring system.  |
| Recommended literature  | 1. Darba aizsardzības likums. ( 20.06. 2001. ).<br>2. MK not. Nr. 359 „Darba aizsardzības prasības darba vietās” ( 28.04.2009. )<br>3. MK not. Nr. 660 „Darba vides iekšējās uzraudzības veikšanas kārtība (02.10 2007.)<br>4.V. Urbāne, S. Lavendele. Bīstamo vielu pielietošanas drošība II izdevums RTU izdevniecība Rīga 2008.<br>5.V. Ziemeļis. Elektrodrošība RTU izdevniecība Rīga 2007.<br>6.Darba aizsardzības likums (jauna redakcija) 24.04.2010.<br>7.Белов С.В. Безопасность жизнедеятельности и защита окружающей среды. Изд-во Юрайт.ИД Юрайт, 2010.<br>8.Dave Putson Safe in Work. Ramazzini versus the Attack on Health and Safety Spokesman Books 2013 UK.<br>9. mājas lapa <a href="http://osha.lv">http://osha.lv</a><br>mājas lapa <a href="http://www.vdi.gov.lv">http://www.vdi.gov.lv</a> ,<br>mājas lapa <a href="http://osha.europe.eu">http://osha.europe.eu</a> , |
| Course prerequisites  | Knowledge in physics, chemistry, basics in legislation and communication.   |

### Course outline

| Theme  | Hours |
|--|-------|
| 1.Introduction, statistics, evaluation of labour protection system in the country. Labour protection legislative system. | 2     |
| 2.Principles of applying labour protection legislative system in an enterprise.  | 2     |
| 3. Work environment, its microclimate and lighting.  | 2     |
| 4. Classification of work environment risks and their assessment principles.   | 1     |
| 5. Mechanical risks in work environment. Requirements for work equipment. Preventive measures.                           | 2     |
| 6. Noise and vibration in workplaces, their limits, preventive measures.   | 1     |
| 7.Electrical safety, step voltage, ground connection, static electricity, protection measures.                           | 2     |
| 8. Biological and chemical work environment risks, their permissible concentration and preventive measures.              | 2     |
| 9. Basic principles for creating labour protection monitoring system in an enterprise.                                   | 1     |
| 10. Investigation principles of workplace accidents.   | 1     |

**Learning outcomes and assessment**

| Learning outcomes  | Assessment methods   |
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| Students have obtained understanding of labour protection legislative system in the country, its application in an enterprise or institution.                      | An individual task has been completed by creating and justifying a list of legislative acts to be followed in a particular enterprise.                     |
| Students have obtained understanding of work environment risks, risk classification by their nature, admissible threshold value and necessary preventive measures. | Risks are assessed practically, by using accessible measurement equipment.   |
| Students have acquired skills of making work environment indicative measurements.  | Indicative work environment measurements have been made, stating the work environment microclimate in the premises of RTU.                                 |
| Students have acquired skills for creating labour protection monitoring system in a particular enterprise.   | A labour protection system for a particular enterprise or institution has been created and justified. The independent work has been successfully defended. |

**Study subject structure**

| Part | CP  | ECTS | Hours per Week |           |      | Tests |      |      |
|------|-----|------|----------------|-----------|------|-------|------|------|
|      |     |      | Lectures       | Practical | Lab. | Test  | Exam | Work |
| 1.   | 1.0 | 1.5  | 1.0            | 0.0       | 0.0  | *     |      |      |