**Study program “Environmental protection technology”**

**1st level professional higher education**

**Study direction:** Environmental protection

**Acquired qualification:** Environmental technologist

**Program volume:** 100 KP or 150 ECTS

**Program implementation form:** full-time studies

**Duration of studies:** 2,5 years (5 semester)

**Study language:** latvian

**Previous education required:** secondary or vocational

After studies in Olaine Technology College it is possible to continue studies in University of Latvia, Riga Technical University, Rezekne Academy of Technologies, as well as in foreign higher education institutions.

**Program annotation**

Program is being implemented from 2003/2004 study year. Olaine Technology College is the only educational institution in Latvia, which implements the 1st level professional higher education study program “Environmental protection technology” and prepares qualified environmental technologists.

The first level professional higher education study program “Environmental protection technology” graduates are able qualitatively perform environmental technologist duties, which are specified in the profession standart “Environmental technologist”.

Students learn for two years theoretical knowledge both in general, and in professional study courses, working in college laboratories, undergo the first practice (6 KP) in companies, which are applied environmental technologies, in the 5th semester undergo qualification practice (10 KP) in companies, develop and defend a qualification paper.

Practice provided in Latvian and foreign production and environmental protection field companies.

**Aim of the program**

The first level professional higher education study program “Environmental protection technology” ai mis to prepare qualified specialists in the field of environmental protection technology.

**Tasks of the program**

To ensure acquisition of the study program in accordance with environmental technologist profession standard.

To provide knowledge in the fields of environmental protection technology, environmental governance and management of natural resources.

To develop creative thinking, reasoning and decision-making abilities.

To develop skills and competences in defining and solving professional problems.

To build ability to perform scientific research and to use the obtained results for developing innovative solutions within the framework of professional competence.

To ensure the quality of education at the level, in order to allow continue studies in top level programs.

**Professional study courses to be acquired in the program**

Wastewater treatment, waste management, soil and air purification technology, environmental quality and management, nature resources and management, environmental chemistry and ecotoxicology, environmental microbiology, engineering graphics, processes and equipment, cleaner technologies, analytical chemistry.

**Study results**

Program graduates:

* knowledgeable and capable of solving environmental problems;
* develops environmental technologies, know how to use them;
* organize and manage nature resources management;
* organize and manage wastewater treatment, waste management;
* organize and manage recultivation of contaminated sites;
* knows environmental protection laws and regulations;
* familiar with environmental management and planning issues;
* able to perform scientific and practical research in the field of environmental technology, develop recommendations for improvement of technological processes.

**Job opportunities**

The first level professional higher education study program “Environmental protection technology” graduates are being prepared to work in wastewater treatment plants, drinking water preparation facilities, waste landfill sites, waste recycling facilities, air and soil purification fields and energy management, analytical chemistry laboratories, environmental management in state and municipal institutions, as well as in the private sector.