



# Ogre Technical School, Latvia





Vocational education competence center «Ogre Technical school» is a merged educational institution with places for implementation of educational programs in three municipalities: **Ogre (2011)**, **Aizkraukle (2017)** and **Gulbene (2019)**





# STRUCTURE OF OGRE TECHNICAL SCHOOL

- Forestry, Wood Products and Hunting Department (*485 students*)
  - with the structure Heavy vehicle Technologies
- Computer Science, Electronic and Administrative work Department (*292 students*)
- Design and Art Department (*354 students*)
- Hotel and Restaurant Services Department (*195 students*)



# VISION

To create Ogre Technical School as a Sectorial Center of Excellence and Innovation, based on the pillars - **personalization, lifelong learning, digitization, internationalization and green education.**



# Education Curriculum

Ogre technical school implemented vocational training programs based on learning subjects

**2013**

In cooperation with employers we had developed new programs – modular programs

**2016**

The new program content is restructured – it based on the results – learning module, the student have mastered a particular skill



# Green skills through the curriculum

- Since 2016, a national initiative has been the introduction of a module “Green Skills” or the integration of its content in vocational subjects in all VET programs:
  - Environmentally friendly behaviour and lifestyle
  - Renewable natural resources
  - Ecosystem services
  - Environmentally friendly energy
  - Nutrition friendly to human health
  - Sustainable waste management
  - Students from Educational programme “Heavy vehicle Technologies” study how to collect machine leaking oils.





# Green skills through the curriculum

## Modular education program

|   |   |   |   |  |   |  |                             |
|---|---|---|---|--|---|--|-----------------------------|
| C | Green skills                              | Language, cultural awareness and expression (Level 2)       | Diagnostics of electronic blocks: industrial equipment and automation 10% | Installation and maintenance of security systems 10%                                   | Diagnostics of modular blocks: communication and switching technique 5% | Diagnostics of electronic blocks: vehicle electronics 5% | EICT product development 5% |
| B | Social and civic skills (Level 2)         | Language, cultural awareness and expression (Level 1)       | Microcontrollers and digital equipment 11%                                | Electronics Assembler internship WBL whole   | Diagnostics and repair of electronic blocks 8%                          | Electronics Technician internship 25%                    |                             |
|   | Initiative and entrepreneurship (Level 2) | Public and human safety (Level 2)                           | Fundamentals of electrical engineering and electronics 16%                | Measurement of the dimensions in electronics 12%<br>2nd year 2nd term - WBL 2w (72h) * | Manufacturing of electronic blocks 8%<br>3rd year -WBL 2w (72h)         |  |                             |
| A | Social and civic skills (Level 1)         | Information and communication technologies (Levels 1 and 2) | Selection of goods and services for EICT infrastructure development 1%    |  |   |  |                             |
|   | Initiative and entrepreneurship (Level 1) | Public and human safety (Level 1)                           | Basic processes and types of work in EICT 1%                              | Basic skills of technical works in EICT 3%   | Development of simple algorithms 5%                                     |  |                             |



# Heavy vehicle Technologies

**Society and human security**



**Basic principles of environmental protection** (training, responsibility, environmental quality policy on a national scale - regulatory acts).

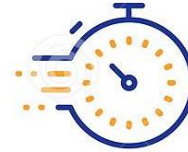
**"Green" or sustainable thinking.**

**Sustainable management, material life cycle principle** (waste collection organization, reusable raw materials)



Understands the necessity of the waste collection and disposal process in the studied economic sector.





# Heavy vehicle Technologies

## Principles of environmental protection

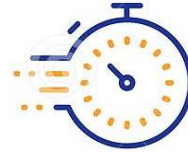
- Integration
- Prevention
- Conservation
- Rectification at source
- Precautionary

## Methods

- Video material
- Regulations
- Health education
- Practical work

## Reflection

- Comprehension
- Appropriate action
- Transfer of experience and knowledge



# Heavy vehicle Technologies

Operation and maintenance of agricultural machinery

Operation and maintenance of forestry machinery

Operation and maintenance of construction machinery

Repair of agricultural machinery

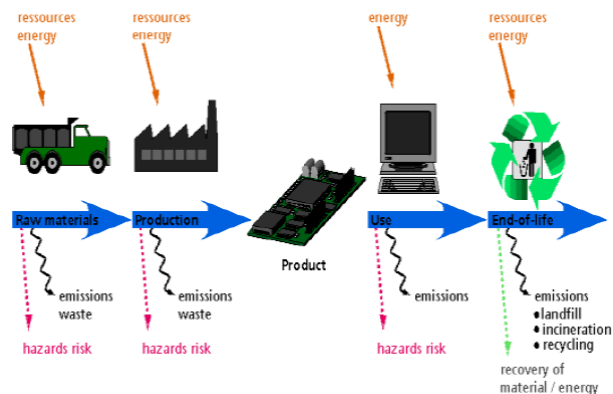
Forestry machinery repair

Construction machinery repair



# The aim of the «Green skills»

To promote the student's ability to carry out his professional activities in accordance with the sustainable development of the environment, resource-saving and energy-efficient management, as well as to make decisions favorable to the environment and in line with green thinking on a daily basis.



Lynch



# Thank you



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