MentorTrain
Competent Mentors Assure
Competent Apprentices

SUMMARY OF THE THIRD MENTORTRAIN WORKSHOP

GROUP ELECTRICAL ENGINEERING, 26. April 2021

Location: TTK UAS, TALLINN ESTONIA, ON-LINE

Introduction:

TTK UAS offers a full study programme in Electrical engineering. As it is university of applied sciences the programme puts a lot of effort on practical works in workshops and apprenticeships in companies. During 210 EAP curricula each student has to participate in apprenticeship activities worth 39 credits. The placements are in various companies that need electrical engineers and thus offer slightly different environments.

To generate learning outcomes that are consistent and have some power to generalise, the workshop was organised for teachers teaching and organising apprenticeships the in the curricula. The workshop was organised on-line.

The most relevant occupations or jobs are the following:

- Electrical engineer
- Electronics engineer
- Expert on atomatics

Level of the diploma (national or international)

- NATIONAL: Bachelor's degree
- INTERNATIONAL: Level 6 of the European Qualifications Framework (EQF5)

Departing point: ALL STUDENTS MUST PERFORM PART OF THEIR COMPULSORY TRAINING IN A COMPANY.

REVIEWING COMPETENCE FRAMEWORKS & LEARNING OUTCOMES

-Attaining correct working methods

-Knowing and fulfilling work safety requirements

-Ability to see big picture and purpose of the subtasks

-Attaining teamwork skills

-Being able to control compiled device's functionality

PROPOSING APPRENTICESHIP ACTIVITIES

-Making electrical measurements

-Assembling devices and making electrical connections

-Getting to know the working environment and equipment

-Communicating with co-workers (and seeing how they work)

-Finding faults solutions for them in devices

-Developing and upgrading devices

-Explaining device’s working principles to others

-Asking questions and help from others

-Communicating with co-workers

-Running control checks

-Making electrical measurements

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Learning outcomes and learning activities

LO1: Attaining correct working methods

Activities: Making electrical measurements.

Assembling devices and making electrical connections.

LO2: Knowing and fulfilling work safety requirements

Activities: Getting to know the working environment and equipment.

Communicating with co-workers (and seeing how they work.)

LO3: Ability to see big picture and purpose of the subtasks

Activities: Finding faults solutions for them in devices.

Developing and upgrading devices.

Explaining device's working principles to others.

LO4: Attaining teamwork skills

Activities: Asking questions and help from others.

Communicating with co-workers.

LO5: Being able to control compiled device's functionality

Activities: Running control checks.

Making electrical measurements.