LEPL Shota Meskhia State Teaching University of Zugdidi

Approved under the resolution

#---- of academic council

of Shota Meskhia State Teaching University of Zugdidi

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Vocational educational programme

Electricity

040569

Contact:

Address: Zugdidi, Janashia st.#14 Senaki, Mshvidoba st. #192

Telephone: 0 415 25 62 17

Web page: zssu.ge

Email: Zssu@edu.ge

Head of programme: Guram Arnania

Zugdidi

2019

1. **Name of the vocational educational programme (hereinafter vocational programme) in Georgian and English languages** - ელექტროობა/ Electricity
2. **Registration number in the framework:** 07313-p
3. **Qualifications to be awarded in Georgian and English languages:** საბაზო პროფესიული კვალიფიკაცია ელექტროობაში / Basic Vocational Qualification in Electricity;

   This qualification belongs to the detailed field of International Standard Classification of Education ISCED – Electricity and Energy- Code 0713.
   Descriptor – "students will learn how to install, operate, fix and diagnose the faults in industrial and commercial enterprises, as well as to install domestic devices and electrical machines. It includes installation and operation of underground and over ground distribution network. Energy includes energy generation.

4. **Aim of the programme**
   Educational programme provides preparing competitive staff in electricity.
5. **Prerequisites**: Basic education
6. **Fields of employment and possibilities:**

Person with the basic vocational qualification in electricity can be employed in any organizations as an electrician; installer of electrical systems; construction electrician; electrician-provider; electrician-mechanic; installer of electrical wires and fittings; installer of lightning systems; installer of fire alarm system; installer of safety alarm; installer of street lightning and electrical alarm devices; installer of lightning on the paths for taking off and landing; installer of electrical collectors of solar energy;

- Code of the National Classification of Economic Activities - 35
- ISCO code: 7411,7412; 7413;

7. Structure and modules:

Student should have 52 credits to gain basic vocational qualification in electricity. 10 credits are for general modules; 42 for vocational modules. Probable duration 9,5 months.

Module "Georgian Language A2" is mandatory only for those students who have right to learn on vocation education programmes under the order #152/N of the Minister of Education and Science of Georgia (September 27, 2013)
These students start learning with the module of Georgian language. Accordingly, total number of credits for them is 71.

N	Common vocational modules – basic, secondary and higher	Credit
1	Introductory practice in electricity	2
2	Engineering drawing	4
3	Electrical and electronic principles	4
4	Communication in electricity field	4
	Total	**14**
N	**General modules of basic vocational qualification**	**Credit**
1	English language	4
2	Entrepreneurship 1	2
3	Informational literacy 1	3
4	Personal and interpersonal skills	1
	Total	**10**
N	**Vocational modules –Basic vocational qualification in electricity**	**Credit**
1	Health and safety in electricity	4
2	Electrical technology	4
3	Characteristics and usage of electrical machines	4
4	Electrical installation	4
5	Mathematics for electricians	4
6	Engineering project	8
	Total	**28**

8. Programme duration:

- For Georgian-speaking vocational students – 52 credits (38 weeks - 9,5 months)
- For nonGeorgian-speaking vocational students – 67 credits (50 weeks – 12,5 months)

9. Learning outcomes relevant to the qualifications to be awarded

After completion the programme, students will be able to

1. give first aid;

2. use electrical technologies as well as the means of electricity generation, transformation and distribution;
3. install and check lightning and electrical circuit in domestic and small enterprises;
4. obtain and use engineering information through the communication technologies(ICT)
5. calculate the volume of figures, area and use statistical methods of representing the data
6. Read and draw engineering drawings using different technics, including Computer-aided design system (CAD)
7. Create and present the project

9.Implementation of vocational educational programmes

The programme includes general and specialized vocational/ field modules. Vocational programme is implemented on Zugdidi and Senaki bases of the teaching university.

11.Confirmation of learning outcomes and credit granting

Credits are awarded on the basis of confirmation of achievement of learning outcomes.

Achievement of learning outcomes can be confirmed

A) through the recognition of learning outcomes within the frameworks of formal education (pass-examination)
B) through the recognition of learning outcomes in informal education under the Georgian Law
C) through the evaluation

There are two kinds of assessments: formative and summative. Formative assessment can be made using the principles of the grades as well as the pass-examinations. Summative assessment uses only the system which is based on the principles of pass-examination (competence-based) and has two kinds of assessments:

A) Learning outcome is confirmed;
B) Learning outcome is not confirmed.

When student gets negative evaluation in summative assessment vocational student has a right to require additional evaluation before the completion of the programme. Evaluation method/ methods are given in modules as recommendations.

Vocational programme considers the development of 8 key competences in the components of modules, learning outcomes and thematic (communication in native language; communication in foreign language; mathematical competence; digital competence; skill for independent learning; interpersonal, intercultural, social and civil competences; entrepreneurship and cultural expressiveness). These are important for the future professionals and competitive staff. One of the eight key competences is the competence which aims to develop main language for teaching of the native/ vocational educational program. Vocational education teacher evaluates the skill of verbal and written communication, particularly, following the rules of orthography and correct speech.

Correct speech

- Time limit during the speech /presentation;
- Using relevant professional vocabulary;
- Expressing opinion clearly and coherently;
- Stating adequate examples and arguments;
- Adequate use of nonverbal means which are typical for the verbal discussion (e.g. gesticulation, intervals during the speech, changes in voice timbres)

Orthography

- Correct use of linking words;
- Correct punctuation (full stop, question mark and exclamation mark);
- Prevention of typical stylistic mistakes;
- Not to use barbarisms and slangs;
- Give information coherently and clearly

11. Awarding the qualification

Vocational student should gather the credits through the modules in vocational educational programs in order to get the vocational qualification

12.For the students with special educational needs and disabled students

People with special educational needs and disabled people will be allowed to the programme without prerequisite/ prerequisites.
Credits are awarded only in case of confirmation relevant learning outcomes. Qualification is awarded under the 12th article.

14. Law basis for program designing

Framework "Electricity" confirmed under the order #656 (October 13, 2017) of National Center for Educational Quality Enhancement. Amendments were made under the order #80/ი (January 31, 2019) and order #458 (June 5, 2018) of National Center for Educational Quality Enhancement.

15. Annexes (#1; #2; #3; #4;)

Annex 1 – Learning plan

Annex 2 – Human resources implementing the programme

Annex 3 – Learning environment and list of material resources

Annex 4 – Modules

- ✓ Annex 4.1. – Foreign (English) language
- ✓ Annex 4.2. – Entrepreneurship 1
- ✓ Annex 4.3. – Informational literacy 1
- ✓ Annex 4.4. – Personal and interpersonal skills
- ✓ Annex 4.5. – Introductory practice in electricity
- ✓ Annex 4.6. – Health and safety in electricity
- ✓ Annex 4.7. – Engineering drawing
- ✓ Annex 4.8. - Electrical and electronic principles
- ✓ Annex 4.9. – Communication in electricity field
- ✓ Annex 4.10. - Electrical technology
- ✓ Annex 4.11. - Characteristics and usage of electrical machines
- ✓ Annex 4.12. - Electrical installation
- ✓ Annex 4.13. - Mathematics for electricians

- ✓ Annex 4.14. - Engineering project
- ✓ Annex 4.15. – Georgian Language A2

Annex #5 –Memorandums / agreements of cooperation with educational institutions and practice objects