**BEM Micro-credential**

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| **BEM content****(for all partners)** | Title/name of the credential | **Manual Metal Arc Welding** |
| Function of the micro-credentials / purpose  | Program is designed on the needs of industry-specific skills. It is vocational training program. |
| Possible target groups | Any interested person, idividuals can study on the program. |
| Branch/sector of application | Engineering and engineering work |
| Fields of application / work environment | Person can be employed in Engineering sectory. |
| Typical work/professional tasks | 1. Study and document the specific characteristics and advantages of manual electric arc welding technology, including its applications and limitations.2. Review and understand the working drawings, technological instructions, and technological maps to ensure proper execution of welding tasks.3. Organize the welding workspace efficiently and select appropriate equipment and tools for the welding process. Prepare these tools for immediate use.4. Prepare the materials and joints that need to be welded, ensuring they are clean and properly aligned. Secure them using tensioners to maintain stability during welding.5. Perform manual electric arc welding on the prepared parts, adapting techniques to accommodate various spatial orientations and positions.6. Process the welded seams as necessary, conduct quality control checks to assess the integrity of the welds, and correct any defects identified during inspection.7. Document the welding activities carried out, including details of the processes, materials used, and any issues encountered, to maintain accurate records.8. Adhere to all relevant labor safety regulations and guidelines to ensure a safe working environment during the welding process. |
| Learning outcomes (personal and job related) | Knowledge | Skills | competences |
| **Knowledge**1. **Manual electric arc welding technology:**
	* Understanding the features, principles, and processes of manual electric arc welding.
2. **Technical documentation:**
	* Familiarity with working drawings, technological instructions, and technological maps.
3. **Labor safety regulations:**
	* Comprehensive knowledge of labor safety rules specific to welding tasks.
4. **Welding quality standards:**
	* Awareness of seam quality standards, defect identification, and correction techniques.

**Skills**1. **Workplace preparation:**
	* Organizing the workplace and selecting appropriate tools and equipment for welding tasks.
2. **Material preparation:**
	* Preparing welding details and joints, including mounting on tensioners, to ensure proper alignment and stability.
3. **Manual welding:**
	* Proficiency in performing manual electric arc welding on parts in various spatial positions.
4. **Seam processing and quality control:**
	* Skilled in processing welded seams, inspecting their quality, and correcting any defects.
5. **Documentation skills:**
	* Compiling reports and documentation about the work performed.

**Competencies**1. **Safe and efficient task execution:**
	* Competence in independently managing welding tasks while adhering to labor safety regulations.
2. **Technical problem-solving:**
	* Ability to identify and resolve issues related to welding quality and seam defects.
3. **Technical adaptability:**
	* Capability to adapt welding techniques to different materials, spatial positions, and project requirements.
4. **Work planning and reporting:**
	* Competence in interpreting technical documentation, planning tasks, and reporting completed work.
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| Validation  | criteria | procedures |
| There is formative and determinative assessment. Formative assessment may be conducted using both scoring and counting principles. Determinative evaluation provides for the use of a system based only on the principles of inclusion (based on the confirmation of competences) and allows the following two types of evaluation:a) the learning outcome has been confirmed;b) The learning outcome could not be confirmed.In case of receiving a negative result during the assessment, the student has the right to request an additional assessment of the achievement of learning outcomes before the end of the program. |
| Recognised/accepted (documented by MoU) | Name of companies- |
| Provider(s) | LEPL College “Qartli” |
| **Additional information****(if needed)** | Entry level / prerequisites | Prerequisites for admission to the program are: basic education, age 18 years and above and health certificate.Program duration in hours: 200 h.Program duration in weeks: 13 weeks. |
| Possible duration (recommendation) |
| **Specific content (national)****(if needed)** | Position in the chain of educational programmes | Level III – Vocational education (NQF) |
| Reference to NQF |
| Credits |