

# BEM Micro-credential



BEM content (for all partners)	Title/name of the credential	<b>Manual Metal Arc Welding</b>
	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, individuals can study on the program.
	Branch/sector of application	Engineering and engineering work
	Fields of application / work environment	Person can be employed in Engineering sector.
	Typical work/professional tasks	<ol style="list-style-type: none"> <li>1. Study and document the specific characteristics and advantages of manual electric arc welding technology, including its applications and limitations.</li> <li>2. Review and understand the working drawings, technological instructions, and technological maps to ensure proper execution of welding tasks.</li> <li>3. Organize the welding workspace efficiently and select appropriate equipment and tools for the welding process. Prepare these tools for immediate use.</li> <li>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.</li> <li>5. Perform manual electric arc welding on the prepared parts, adapting techniques to accommodate various spatial orientations and positions.</li> <li>6. Process the welded seams as necessary, conduct quality control checks to assess the</li> </ol>

		<p>integrity of the welds, and correct any defects identified during inspection.</p> <p>7. Document the welding activities carried out, including details of the processes, materials used, and any issues encountered, to maintain accurate records.</p> <p>8. Adhere to all relevant labor safety regulations and guidelines to ensure a safe working environment during the welding process.</p>		
	Learning outcomes (personal and job related)	Knowledge	Skills	competences
		<p><b>Knowledge</b></p> <ol style="list-style-type: none"> <li><b>Manual electric arc welding technology:</b> <ul style="list-style-type: none"> <li>Understanding the features, principles, and processes of manual electric arc welding.</li> </ul> </li> <li><b>Technical documentation:</b> <ul style="list-style-type: none"> <li>Familiarity with working drawings, technological instructions, and technological maps.</li> </ul> </li> <li><b>Labor safety regulations:</b> <ul style="list-style-type: none"> <li>Comprehensive knowledge of labor safety rules specific to welding tasks.</li> </ul> </li> <li><b>Welding quality standards:</b> <ul style="list-style-type: none"> <li>Awareness of seam quality standards, defect identification, and correction techniques.</li> </ul> </li> </ol> <p><b>Skills</b></p> <ol style="list-style-type: none"> <li><b>Workplace preparation:</b> <ul style="list-style-type: none"> <li>Organizing the workplace and selecting appropriate tools and equipment for welding tasks.</li> </ul> </li> <li><b>Material preparation:</b> <ul style="list-style-type: none"> <li>Preparing welding details and joints, including mounting on tensioners, to ensure proper alignment and stability.</li> </ul> </li> <li><b>Manual welding:</b> <ul style="list-style-type: none"> <li>Proficiency in performing manual electric arc welding on parts in various spatial positions.</li> </ul> </li> <li><b>Seam processing and quality control:</b></li> </ol>		

		<ul style="list-style-type: none"> <li>Skilled in processing welded seams, inspecting their quality, and correcting any defects.</li> </ul> <p><b>5. Documentation skills:</b></p> <ul style="list-style-type: none"> <li>Compiling reports and documentation about the work performed.</li> </ul> <p><b>Competencies</b></p> <ol style="list-style-type: none"> <li><b>Safe and efficient task execution:</b> <ul style="list-style-type: none"> <li>Competence in independently managing welding tasks while adhering to labor safety regulations.</li> </ul> </li> <li><b>Technical problem-solving:</b> <ul style="list-style-type: none"> <li>Ability to identify and resolve issues related to welding quality and seam defects.</li> </ul> </li> <li><b>Technical adaptability:</b> <ul style="list-style-type: none"> <li>Capability to adapt welding techniques to different materials, spatial positions, and project requirements.</li> </ul> </li> <li><b>Work planning and reporting:</b> <ul style="list-style-type: none"> <li>Competence in interpreting technical documentation, planning tasks, and reporting completed work.</li> </ul> </li> </ol>	
	Validation	criteria	procedures
	Recognised/accepted (documented by MoU)	<p>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:</p> <p>a) the learning outcome has been confirmed;</p> <p>b) The learning outcome could not be confirmed.</p> <p>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.</p> <p>Name of companies</p>	

	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	