

BEM Micro-credential



BEM content (for all partners)	Title/name of the credential	Trout breeding specialist		
	Function of the micro-credentials / purpose	The program is designed on the needs of industry-specific skills and is an upskilling program.		
	Possible target groups	all interested parties		
	Branch/sector of application	Agriculture		
	Fields of application / work environment	The entire program is delivered in agriculture sector in Fishery		
	Typical work/professional tasks	<ol style="list-style-type: none"> 1. Explaining the entire trout farming process, including water flow systems, oxygenation, filtration, temperature control, and pond/tank management. 2. Outlining health and safety procedures for workers to prevent injuries and maintain a safe working environment. This includes hygiene practices, protective gear usage, and emergency protocols. 3. Providing detailed guidelines for maintaining fish health through proper sanitation, disease prevention, waste management, and compliance with environmental regulations to minimize ecological impact. 4. Managing breeding schedules, ensuring optimal feeding plans, and implementing veterinary checks. Also, ensuring that environmental and sanitary standards are integrated into breeding and feeding activities. 5. Monitoring the physical and mental well-being of staff members, ensuring efficient teamwork, and addressing any safety or productivity issues within the workforce. 6. Organizing the proper handling, packaging, and transport of fish eggs (spawn) and trout at various life stages, following protocols to minimize stress and mortality during transportation. 		
Learning outcomes (personal	Knowledge	Skills	competences	

and job related)

Knowledge

1. **Trout farming principles:**
 - Understanding the principles of trout farming, including breeding, feeding, and growth stages.
2. **Health management:**
 - Knowledge of the rules and practices for ensuring the general health of trout populations.
3. **Veterinary-sanitary and environmental norms:**
 - Awareness of veterinary-sanitary requirements and environmental protection standards specific to trout farming.
4. **Transportation processes:**
 - Understanding the preparation processes for transporting spawn and trout at different age stages.

Skills

1. **Trout breeding and feeding:**
 - Practical skills in breeding and feeding trout while adhering to veterinary-sanitary and environmental norms.
2. **Health observation and assessment:**
 - Ability to monitor and evaluate the overall health condition of trout populations.
3. **Transportation preparation:**
 - Skills in preparing spawn and trout for transportation, ensuring their safety and viability during the process.

Competencies

1. **Safe and sustainable trout farming:**
 - Competence in managing trout farming tasks in compliance with health, safety, and environmental standards.
2. **Problem-solving in health management:**
 - Ability to identify and address issues affecting the health and well-being of trout populations.

		<p>3. Efficient planning and execution:</p> <ul style="list-style-type: none"> ○ Capability to plan and execute breeding, feeding, and transportation activities independently and effectively. <p>4. Technical adaptability:</p> <ul style="list-style-type: none"> ○ Competence in adapting farming practices to different trout farming conditions and challenges. 				
	Validation	<table border="1"> <thead> <tr> <th>criteria</th> <th>procedures</th> </tr> </thead> <tbody> <tr> <td colspan="2">Each 6 learning outcome have its own formative and determinative assessment during the study process.</td> </tr> </tbody> </table>	criteria	procedures	Each 6 learning outcome have its own formative and determinative assessment during the study process.	
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	Recognised/accepted (documented by MoU)	<p style="text-align: center;">Name of companies</p> <p>The following companies are the partners for this program:</p> <ol style="list-style-type: none"> 1. Dgyrisi Ltd 2. Bio Mari Ltd 				
	Provider(s)	LLC Community College Amagi				
Additional information (if needed)	Entry level / prerequisites	Prerequisite for admission to the program: general education, age 18 years or above.				
	Possible duration (recommendation)	<p>Program duration in hours: 60 h.</p> <p>Program duration in weeks: 15 weeks</p>				
Specific content (national) (if needed)	Position in the chain of educational programmes	Level III – vocational education (NQF)				
	Reference to NQF					
	Credits					