BEM Micro-credential



	Title/name of the credential	Waste Management Operator
BEM content	Function of the micro-credentials	The micro-credential is designed for the needs of establishing an integrated system for
(for all partners)	/ purpose	packaging waste management (plastic, paper/cardboard, glass,
		metal, wood and composite materials) and waste electrical and electronic equipment
		(with all components, subassemblies, parts and materials) to the appropriate operating
		unit.
	Possible target groups	Institutions that treat all types of waste, production companies.
		In accordance with the Law on Waste Management, legal and natural persons who, in
		the course of their activities, generate more than 200 kilograms of hazardous waste
		and/or more than 150 tons of non-hazardous waste in the course of a calendar year are
		obliged to appoint at least one professionally qualified person - manager for waste.
	Branch/sector of application	Chemistry and Technology
	Fields of application / work	Cooperate with households, public institutions of local and central government, as well
	environment	as industrial facilities, service and commercial sectors and relevant agencies.
	Typical work/professional tasks	Waste Management Operator performs the following tasks:
		Identifies, systematizes and codes waste
		• Performs appropriate treatment of waste depending on the type of waste.
		• Processes the waste using an appropriate operation depending on the properties of the
		waste
		• Controls the process of creating waste in technological processes
		 Selects non-hazardous, inert and hazardous waste
		• Collects, transports, stores, processes, disposes and labels all types of non-hazardous,
		inert and hazardous waste
		 Identifies special types of hazardous waste

Learning outcomes ¹ (personal and job related)	Knowledge	Skills	Key competences
	The participant should be able to	:	Native language communication:
	- carries out the systematization a	and coding of waste	able to share and yes interprets
	according to the List of types of v	waste	thoughts, feelings, facts and
	- determines the characteristics of	of the waste	attitudes, verbally and written
	- chooses an appropriate waste pr	ocessing operation	form, and to realize linguistic
	depending on the waste propertie	es, performs	interaction with colleagues,
	appropriate waste storage depend	ling on the	superiors and clients in different
	characteristics		social and cultural contexts.
	- applies procedures of collection	, transportation,	She/He is able to formulate and
	processing, removal and/or notif	ication of waste	express his own oral and written
	depending on the properties of the		arguments in a manner
	- applies appropriate ways and op	perations of	appropriate to the context.
	removing the different types of d	angerous and non	Communication in foreign
	-dangerous		languages: is able to understand
	- identifies hazardous waste and	handles it in an	and express the simple way
	appropriate manner		feelings, facts and attitudes orally
	- knows the rules for dealing wit		and in writing.
	- performs appropriate recording	and classification	Mathematical Competences and
	of hazardous waste		Core Competencies in Science
	- applies appropriate methods of		and Technology: Apply
	and transporting hazardous wast		Numerical Thinking and
	- uses an appropriate way of deal	ing with special	knowledge in explaining the
	types of hazardous waste		nature of solving a series of tasks
	- handles waste oils appropriately	7	during daily operation and use of
			equipment and administration.

¹ The rule when writing learning outcomes is that they should relate to the three domains of learning (cognitive, affective, and psychomotor). Accordingly, the statement defining the learning outcome should refer to the acquisition of knowledge and skills through which competencies are acquired.

- treats appropriately and disposes of special types of	Uses and works with simple
hazardous waste (polychlorinated biphenyls (PCB)	mathematical operations and
– synthetic chemicals, waste oils, medical waste and	calculations.
titanium dioxide)	Digital Competencies: Uses basic
- carries out appropriate collection, transportation,	IT technology in order to provide
storage of special types of hazardous waste	the best possible protection. It
- handles waste batteries, accumulators, electronic	uses digital information and uses
and electrical equipment accordingly	it in a systematic way.
- handle asbestos waste, asbestos products and tires	Learn how to learn: he is able to
appropriately	access, acquire, process and adopt
- identifies restrictions and bans on the use of the	new knowledge and skills for the
content of certain hazardous substances in electrical	purposes of personal progress, as
and electronic equipment	well as to them applies the same
	to advance the technique and
	technology of execution of the
	work of. Persistent in
	autonomous learning, but also in
	learning during the work with the
	collaborators in the area. Pursue
	innovation in order to made
	progress in establishing the
	integrated system for waste
	management teaches how to
	reconcile social, economic and
	environmental aspects. The
	studies business practices and
	how they affect the development
	of work processes etc.
	Social/societal and civic
	competences : in everyday
	environment, is capable of

manifesting personal, interpersonal and intercultural competencies for constructive communication with people from different profiles, shows tolerance, expresses and understands different points of view and creates trust. • Sense of initiative: shows initiative to realization of the important ideas and their implementation in actions, with a goal to improve practices. To be able to recognize opportunities and the challenges of improvement in different situations. It contributes towards the development of a culture that supports and values them initiatives, recognizes the different skills of everyone within of the activity. Cultural awareness and expression: recognizes and appreciates it the creative expression of ideas, experiences and emotions and the members in the team appropriately links them to self improvement. It brings them closer own creative and expression at the brings	
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	expressive attitudes with the

		thoughts of other team members, their families and other colleagues, and expresses in an appropriate way that will improve theirs well-being.
Validation	from the Ministry of Environment - determines the characteristics of the wa - knows the impact of waste on the envi - applies principles of waste management - performs an appropriate approach to wa and type of waste - explains the hierarchy of waste reduction - describes the prevention and reuse feat - reads environmental labels - identifies the conditions under which wa - chooses an appropriate waste processing waste	of waste according to the List of types of waste aste ironment t baste management depending on the conditions on ures vaste is processed by operation depending on the properties of the s for the processing of secondary raw materials n in technological processes hazardous waste waste azardous and inert waste

	ined (accented	 carries out appropriate treatment of household waste, public areas, industrial, medical and agricultural waste - carries out appropriate storage of waste depending on the characteristics applies procedures of collection, transportation, processing, removal and/or notification of waste depending on the properties of the waste applies appropriate ways and operations of removing the different types of dangerous and non-dangerous identifies hazardous waste and handles it in an appropriate manner knows the rules for dealing with hazardous waste performs appropriate recording and classification of hazardous waste understands the purpose of examining the characteristics of hazardous waste applies appropriate methods of packaging, labeling and transporting hazardous waste uses an appropriately of dealing with special types of hazardous waste handles waste oils appropriately treats appropriately and disposes of special types of hazardous waste (polychlorinated biphenyls (PCB) synthetic chemicals, waste oils, medical waste and titanium dioxide) carries out appropriate collection, transportation, storage the special types of hazardous waste handle asbestos waste, asbestos products and tires appropriately identifies restrictions and bans on the use of the content of certain hazardous substances in electrical and electronic equipment knows the decomposition time of solid waste materials and understands the role of treatment
_	ised/accepted ented by Mo <u>U</u>)	ASD Metal Group DOO Import-Export Shuto Orizari Skopje, Company for production, trade and services PLASTIC RECYCLING import-export and others, Pacomak
Provide	er(s)	Companies. Secondary schools for VET (conditionaly)

Additional information (if needed)	Entry level / prerequisites	Persons with completed secondary education for occupation, professional technical and/or high school education.
	Possible duration (recommendation)	The micro-credential is obtained after 90 hours of active learning
Specific content (national)	Position in the chain of educational programmes	<i>In the existing educational programs it is not present. Some of the learning outcomes appear in some of the qualifications</i>
(if needed)	Reference to NQF Credits	The term is not defined in the NRC under the existing legal framework.3 (three) ECVET.