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GreenVETAfrica

MODULE OUTLINE

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1	Title:	Module 4: Green Waste Management (technical foundations)
2	Abstract with aims & objectives	<p>Population growth, urbanisation and industrialization have significantly increased waste generation and management with consequent threats to the health of human, wildlife and environment. The proper management of these wastes and innovating ideas for new sustainable technologies are the need of the hour. Most school curriculums especially in Ghana and Nigeria do not provide the entrepreneurship approach to teaching waste management courses and develop technical capabilities required in the green waste management sector. To bridge these gaps this training module aims to build technical capacities required to upskill the waste management value chain to support sustainable development and circular economy act with green technology (green economy) which is a major action required to tackle waste management challenges in the project areas (Ghana and Lagos) with support of the European Union GreenVET project.</p> <p>OBJECTIVE</p> <p>The Green Waste Management (technical foundations) course will furnish and equip the trainers with baseline knowledge of the waste management sector and prepare them to design and implement structured trainings that will enhance capacities of the green waste management based on needs and upskilling.</p>
3	Key words	<i>Green Waste Management, Sustainable Development, Circular Economy, GreenVET, Green Jobs</i>
4	Knowledge domain	Waste Management
5	Duration	80 Hours

6	<p>Contents (Specify n. of hours of each Unit)</p>	<p>Unit 1: Green Waste Management (technical foundations)</p> <p>(60 Hrs, LAWMA)</p>	<ul style="list-style-type: none"> • Introduction to the Environment and to Waste and Waste Management • Waste Management Hierarchy and Recycling • Organic Waste Management and Waste to Energy • Waste Disposal and Treatment • Circular Economy • Green Jobs
		<p>Unit 2: Green Waste Management (technical foundations)</p> <p>(PAUF – 20 hours)</p>	<ul style="list-style-type: none"> • Introduction to Waste Management Equipment and Machinery (20 hours) • Overview of waste management equipment and machinery used throughout the value chain. • Understanding the purpose and functionality of various waste management tools and technologies. • Safety protocols and guidelines for handling waste management equipment.
7	<p>Learning outcomes (2-3 per module) Module 4.1</p>	<p>Module 4.1: Green Waste Management I (Waste Management Fundamentals)</p> <p>LOut1: Participant will be acquainted with the concept of the physical environment (soil, air & water)</p> <p>LOut2: Participants will be able to recognize , types of wastes, forms of waste, and waste management techniques</p> <p>LOut3: Participants will be able to assess the various options for solid waste management and select the most appropriate</p> <p>LOut4: Participants will be acquainted with the concept of recycling, the value chain, types of Recyclables and their management.</p> <p>LOut5: Participants will be provided with a a general overview on the opportunities and possibilities of organic waste management composting and energy generation from waste</p> <p>LOut6: Participants will acquire the autonomy to recognise the various waste disposal and treatment techniques and how their impacts on environmental quality and control</p> <p>LOut7: Participants will be able to apply to their work a comprehensive approach focusing on the relationship between man and the environment, ecosystem services and human responsibility towards the conservation, protection and maintenance of environmental resources and the concepts of sustainable development goals (SDGs).</p> <p>LOut8: This module will consider how to make the most of material resources available to us by extending the life cycle of products through effective waste/material management and establishment of a more efficient and sustainable production model over time.</p> <p>LOut9: Participants will be able to identify and define Green jobs for a more sustainable and climate-neutral environment, targets for reduce greenhouse gas emissions, circular economy practices and waste reduction</p>	

		LOut10: Participants will experience at practical level what they have been taught,
	Learning Outcomes Module 4.2	<p>Module 4.2: Green Waste Management II (Technical Foundations)</p> <p>Unit 1 – Introduction to Waste Management Equipment and Machinery</p> <p>Upon completing this unit, instructors will demonstrate a comprehensive understanding of various waste management equipment and machinery used in the industry. They will be proficient in identifying the purpose and functionality of different tools and technologies, ensuring efficient waste management practices. This knowledge will enable them to effectively impart essential equipment-related concepts to their students, equipping future waste management professionals with the necessary skills for optimal waste handling and processing.</p>
8	Learners' profile	<p>50 Teachers (25 Ghana, 25 Nigeria) with following profile:</p> <ul style="list-style-type: none"> • Teachers and trainers • Training tutors
9	Delivery mode (face2face, working groups, online, blended)	Face-to-face, online, hybrid nbn bnb
10	Tools and materials needed for implementation	Laptops, Headphones, Strong Internet Connection with webcams, buses for site visits
11	Related Urls and Online Resources	Zoom platform/Teams meet, Google Doc
12	Type of resource (video, lesson plan, etc.)	Lesson plans, video (if required)