

Pathway Summary Descriptions & Details for SAE Journals

Pathway in: Environmental Service Systems



Code	Summary Activity Description	AFNR Description	Additional AFNR Details
ESS.01	Analyzing & interpreting samples	Use analytical procedures to plan and evaluate environmental service systems.	Analyze and interpret samples.
ESS.02	Interpreting Environmental laws	Assess the impact of policies and regulations on environmental service systems.	Interpret laws affecting environmental service systems.
ESS.03	Applying scientific principles	Apply scientific principles to environmental service systems.	Apply meteorology principles to environmental service systems.
			Apply soil science principles to environmental service systems.
			Apply hydrology principles to environmental service systems.
			Apply best management techniques associated with the properties, classifications and functions of wetlands.
			Apply chemistry principles to environmental service systems.
			Apply microbiology principles to environmental service systems.
ESS.04	Managing waste, health, and environmental safety	Operate environmental service systems to manage a facility environment.	Use pollution control measures to maintain a safe facility environment.
			Manage safe disposal of all categories of solid waste.
			Apply the principles of public drinking water treatment operations to ensure safe water at a facility.
			Apply principles of wastewater treatment to manage wastewater disposal in keeping with rules and regulations.
			Manage hazardous materials to assure a safe facility and to comply with applicable regulations.
ESS.05	Comparing energy sources and impacts to environment	Examine the relationships between energy sources and environmental service systems.	Compare and contrast the impact of conventional and alternative energy sources on the environment.
ESS.06	Using tools, equipment, machinery and technology	Use tools, equipment, machinery and technology to accomplish tasks in environmental service systems.	Use technological and mathematical tools to map land, facilities and infrastructure.
			Maintain tools, equipment and machinery in safe working order for tasks in environmental service systems.