

Assessment, Remediation and Management of Contaminated Land

Core Knowledge Areas and Knowledge Requirements for Professional Practice in the Practice Area.

To qualify for the Assessment, Remediation, and Management of Contaminated Land (ARMCL) practice area, all Core Knowledge Areas for at least two practice area activities must be met (AIA CC Policy #21-001). Each knowledge requirement must consist of at least 3-credit equivalent of learning. A regulated member's scope of practice is restricted to those practice area activities for which the member qualifies.

Activity 1: Understanding Drivers and Planning

Core Knowledge Area	Required Subject Matter Areas
	(Knowledge Requirements)
Contaminants	Inorganic ChemistryOrganic Chemistry
Soils and Landforms	Soil Science OR Quaternary Geology
Water	Hydrology OR Hydrogeology
Ecology	Ecology
Socioeconomics and Policy	At least one of the following:

Activity 2: Phase I ESAs

Core Knowledge Area	Required Subject Matter Areas
	(Knowledge Requirements)
Contaminants	Inorganic Chemistry Organic Chemistry

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Activity 3: Phase II ESAs

Core Knowledge Area	Required Subject Matter Areas (Knowledge Requirements)
Contaminants	Inorganic ChemistryOrganic Chemistry
Soils and Landforms	Soil ScienceSoil Classification
Water	Hydrology OR Hydrogeology
Vegetation	Plant ScienceVegetation Identification

Activity 4: Remediation

Core Knowledge Area	Required Subject Matter Areas (Knowledge Requirements)
Contaminants	 Inorganic Chemistry Organic Chemistry Remediation Strategies
Soils and Landforms	Soil ScienceSoil ClassificationSoil Chemistry
Water	Hydrology OR Hydrogeology

Activity 5: Risk Assessment

Core Knowledge	Required Subject Matter Areas
Area	(Knowledge Requirements)
Contaminants	 Inorganic Chemistry Organic Chemistry Contaminant Behavior Ecological and Human Health Risk Assessment Toxicology Statistical Analysis
Soils and Landforms	Soil Science OR Quaternary GeologySoil Chemistry
Water	HydrologyHydrogeology
Vegetation	Plant Science

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	Plant NutritionPlant Physiology
Ecology	Ecology
Animals	Animal NutritionAnimal Physiology
Socioeconomics and Policy	 Environmental Policy Environmental Planning Environmental Impact and Mitigation Land Use Planning

Activity 6: Exposure Control

Core Knowledge Area	Required Subject Matter Areas (Knowledge Requirements)
Contaminants	 Inorganic Chemistry Organic Chemistry Environmental Sampling Design Statistics
Soils and Landforms	Soil Science OR Quaternary Geology
Water	HydrologyHydrogeology

Activity 7: Validation and Closure

Core Knowledge	Required Subject Matter Areas
Area	(Knowledge Requirements)
Contaminants	Inorganic ChemistryOrganic ChemistryContaminant Behavior
Soils and Landforms	Soil ScienceSoil Classification
Water	HydrologyHydrogeology
Vegetation	Plant Science
Ecology	Ecology
Socioeconomics and Policy	At least one of the following:

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•	Environmental Law Land Use Planning
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