

Environmental Technology Certificate Environmental Site Assessment

The Environmental Technology certificates are a collaborative partnership among Cape Cod Community College, Massachusetts Maritime Academy and University of Massachusetts - Dartmouth, for persons seeking to acquire skills and knowledge in eight environmental fields: Coastal Zone Management, Environmental Site Assessment, Geographic Information Systems, Photovoltaic Technology, Small Wind Technology, Solar Thermal Technology, Wastewater Management, and Water Supply. Students may need to travel to each of the three schools in order to complete all the courses in any certificate program. Students are encouraged to enroll in ENV260 Cooperative Work Experience/Internship.

Course #	Course Title	Credits	Prerequisites	Semester Offered	Semester Taken	Grade Earned
ENV118	Intro. to Environmental Science	4	MAT020, ENL020 & ENL050 or satisfactory basic skills assessment scores	Fall, Spring, Summer		
ESC101	Intro. to Earth Science	4	MAT030, ENL020, ENL050 or satisfactory basic skills assessment scores	Fall, Spring		
ENV122	Process of Environmental Management and Decision Making	3	None	Fall, Spring		
ENV158	Occupational Health and Safety through Hazardous Waste Management	3	None	Spring		
ENV260	Internship (recommended)	3	ENV118 or ENV170 & permission of instructor	Fall, Spring, Summer		
Total Credits		14/17				

Overview

This certificate provides an understanding of the scope of environmental site assessment, the tools and techniques used to gather the field data and conduct the evaluation. Students study the interrelationship among various systems that exist on any site and apply these concepts in the evaluation of a site before and after an event has occurred. The regulatory overview focuses on federal, state and local laws governing environmental protection of sites including wetlands, wildlife and hazardous materials sites.

Career Outlook

Completion of the Environmental Site Assessment Certificate prepares a student to obtain a position as a hazardous materials removal worker or as a technician assisting a licensed site professional in development of land use planning and remediation. The Department of Labor predicts that job opportunities are expected to be excellent in this field.

Experienced workers will have especially favorable opportunities, particularly in the private sector, as more State and local government's contract out hazardous materials removal work to private companies. Employment in this field is expected to increase 27 percent or more for all occupations through the year 2014, reflecting increasing concern for a safe and clean environment.

This certificate is appropriate for students with advanced degrees that are looking for specific technical training.

Program Outcomes

Upon completion of the Environmental Site Assessment Certificate, students are able to:

- Use the latest equipment and techniques to collect field samples and analyze data.
- Become familiar with the mapping of environmental parameters on a GIS system.
- Demonstrate knowledge of the laws governing site assessment.
- Be prepared to begin an apprenticeship assisting a Licensed Site Professional.
- Be certified in 40-hour OSHA for hazardous waste.