

Environmental Technology Certificate

Water Supply

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		
ENV140	Into to Water: Concepts & Technologies	3	None	Fall		
ENV146	Water Supply	3	ENV118 & ENV140	Spring		
ENV158	Occupational Health & 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 students with up-to-date knowledge of the physical and chemical principles of drinking water supply and the basic framework for the practical application of science and mathematics to assess and solve water supply problems. They will understand the functioning of related equipment and support systems and the responsibilities required in safely operating and maintaining a water supply system. Students learn the significance of the laws and regulations covering water supply.

Career Outlook

Completion of the Water Supply Certificate prepares a student to obtain a position at a municipal drinking water treatment facility or to conduct drinking water testing by a Board of Health. The Department of Labor predicts that employment of water supply workers and system operators is expected to increase 9 to 17 percent for all occupations through the year 2014.

Local governments are the largest employers of water supply facilities and system operators. However, Federal certification requirements have increased utilities' reliance on private firms specializing in the operation and management of water treatment facilities. As a result, employment in privately owned facilities will grow faster than the average.

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

Program Outcomes

Upon completion of the Water Supply Certificate, students are able to:

- Describe the concepts of water supply systems and have the knowledge and ability to operate, maintain and/or manage a drinking water supply facility.
- Be prepared to sit for state operator's drinking water license.