

WATER TREATMENT PLANT OPERATIONS, WATER & WASTEWATER FUNDAMENTALS CERTIFICATE OF SPECIALIZATION



Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Water Treatment Plant Operator-1: Identify in detail characteristics and sources of ground water and surface water supplies including the chemical, physical and bacterial characteristics, and explain the effects on quality of geological formations, stratifications, and watershed management.
2. Water Treatment Plant Operator-10: Perform basic mathematical calculations and conversions relating to water flow, pressure, volume, velocity, chemical dosage, and hydraulic and organic loading.
3. Water Treatment Plant Operator-11: Determine appropriate safety procedures applicable to service and operation of water treatment and distribution systems including potential problems.

Certificate Requirements

| Code | Title | Units |
|-------------|---------------------------------------|-------|
| CWS-100 | Career Pathways in Water & Wastewater | 3 |
| CWS-101 | Fundamentals of Water & Wastewater | 3 |
| CWS-102 | Calculations in Water & Wastewater | 3 |
| CWS-107 | Safety in Water & Wastewater | 3 |
| Total Units | | 12 |

Certificate of Specialization

Students who complete the requirements above qualify for a certificate in that area of emphasis. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.