

WATER TREATMENT PLANT OPERATIONS, ADVANCED WATER TREATMENT PLANT OPERATIONS CERTIFICATE OF SPECIALIZATION



Program Learning Outcomes

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

- Water Treatment Plant Operator-5
 - Compare and contrast the basic principles of each water treatment process and list them in order performed.
- Water Treatment Plant Operator-6
 - Explain and prepare a plan for the use of chlorine including the characteristics of and methods for storing, feeding and measuring chlorine including the effects of moisture, pH and temperature on feed rate, and the health and safety effects, procedures and personal protective requirements.
- Water Treatment Plant Operator-7
 - Determine the methods used for coagulation, flocculation and sedimentation including common chemicals used, feed systems, effects of time temperature, turbidity and pH, and the measurement of turbidity and color.
- Water Treatment Plant Operator-9
 - Demonstrate through testing basic knowledge of the regulations for monitoring water quality and performing water treatment.

Certificate Requirements

| Code | Title | Units |
|--------------------|---|----------|
| CWS-134 | Pumps, Motors & Valves | 3 |
| CWS-204 | Applied Hydraulics | 3 |
| CWS-212 | Advanced Water Treatment Plant Operations | 3 |
| Total Units | | 9 |

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.