

# WASTEWATER TREATMENT OPERATIONS, ADVANCED WASTEWATER TREATMENT OPERATIONS CERTIFICATE OF SPECIALIZATION

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## Program Learning Outcomes

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

- Wastewater Treatment Operator-7
  - Perform basic mathematical calculations and conversions relating to water flow, pressure, volume, velocity, chemical dosage, and hydraulic and organic loading.
- Wastewater Treatment Operator-3
  - Describe the specifications, installation, and operation of typical devices used in backflow prevention and testing and explain their proper installation.
- Wastewater Treatment Operator-6
  - Explain the basic principles of preliminary, primary, secondary and tertiary treatment.
- Wastewater Treatment Operator-5
  - Compare and contrast wastewater treatment unit processes including preliminary, primary, secondary and tertiary treatment.

Code	Title	Units
CWS-134	Pumps, Motors & Valves	3
CWS-204	Applied Hydraulics	3
CWS-214	Advanced Wastewater Treatment Plant Operations	3
<b>Total Units</b>		<b>9</b>

## 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.