



OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY WASTEWATER SYSTEM OPERATOR CERTIFICATION PROGRAM

STUDYING FOR ABC WASTEWATER EXAMS

The specifications list the percentage or number of questions on the exam that fall under each job duty.

ABC Wastewater Treatment Exam Specifications

	Grade I	Grade II	Grade III	Grade IV
Evaluate Incoming Wastestream/Sidestream Characteristics	5	5	10	15
Monitor, Evaluate and Adjust Treatment Processes	35	30	15	10
Evaluate and Maintain Equipment	10	20	20	20
Operate Equipment	10	10	10	10
Collect Samples and Interpret Analysis	5	5	10	10
Perform Laboratory Analysis	10	10	5	5
Perform Security, Safety and Administrative Procedures	25	20	30	30

Suggested Treatment Exam References:

The following are approved as reference sources for the ABC wastewater treatment examinations. Operators should use the latest edition of these reference sources to prepare for the exam.

California State University, Sacramento Foundation, Office of Water Programs (www.owp.csus.edu)

- *Operation of Wastewater Treatment Plants, Volume I and II*
- *Advanced Waste Treatment*
- *Utility Management*

Water Environment Federation (WEF) (www.wef.org)

- *Operation of Municipal Wastewater Treatment Plants - Manual of Practice No. 11*
- *Prime Movers: Engines, Motors, Turbines, Pumps, Blowers & Generators. Manual of Practice OM-5*
- *Safety & Health in Wastewater Systems - Manual of Practice No. 1*
- *Activated Sludge - Manual of Practice OM-9*
- *Managing the Water and Wastewater Utility*

Regulations

- *Code of Federal Regulations, Title 40* (www.gpo.gov)
- State Regulations: <http://www.deq.state.or.us/wq/>
- *Standard Methods for the Examination of Water and Wastewater*, American Public Health Association, American Water Works Association, and WEF (latest EPA-approved edition). Washington, DC: (www.apha.org)

Study Guides

- *Wastewater Operators Guide to Preparing for the Certification Examination*, WEF/Association of Boards of Certification (ABC) (www.wef.org)
- *Applied Math for Wastewater Plant Operators*. Price, Joanne. 2000, CRC Press, Boca Raton, FL. (www.crcpress.com)

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Suggested Wastewater Treatment Exam References *(continued)*

Michigan State University

- *Supervisory Management in the Water/Wastewater Field*
(www.smwwf.vu.msu.edu/preview/smwwf.html)

National Environmental Training Center for Small Communities (NETCSC)

- *Protecting Your Community's Assets: A Guide for Small Wastewater Systems*
(www.nesc.wvu.edu/netcsc/netcsc_index.htm)

ABC Collection Exam Specifications				
	Grade I	Grade II	Grade III	Grade IV
Operate Equipment	15	15	15	15
Evaluate and Maintain Equipment	10	15	15	15
Maintain and Restore Collection System	15	15	15	15
Maintain Lift Stations	10	10	10	10
Monitor, Evaluate and Adjust Collection System	35	30	25	25
Perform Security, Safety and Administrative Duties	15	15	20	20

Suggested Collection Exam References:

The following are approved as reference sources for the ABC collection examinations. Operators should use the latest edition of these reference sources to prepare for the exam.

California State University, Sacramento Foundation, Office of Water Programs (www.owp.csus.edu)

- *Operation of Wastewater Treatment Plants, Volume I and II*
- *Operation and Maintenance of Wastewater Collection Systems, Volume I and II*
- *Utility Management*

Water Environment Federation (www.wef.org)

- *Operation of Municipal Wastewater Treatment Plants - Manual of Practice No. 11*
- *Prime Movers: Engines, Motors, Turbines, Pumps, Blowers & Generators - Manual of Practice OM-5*
- *Safety & Health in Wastewater Systems, Manual of Practice No. 1*
- *Existing Sewer Evaluation and Rehabilitation - Manual of Practice FD-6*
- *Wastewater Collection Systems Management - Manual of Practice No. 7*

Regulations

- *Code of Federal Regulations, Title 40* (www.gpo.gov)
- State regulations: <http://www.deq.state.or.us/wq/>

Study Guides

- *Collection Systems Operator's Guide to Preparing for the Certification Examination*, Water Environment Federation, WEF/ABC (www.wef.org)

Questions regarding exam content should be addressed to DEQ, Wastewater Operator Certification Program, email opcert@deq.state.or.us or phone 503.229.6824.

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