



STATE OF DELAWARE  
DEPARTMENT OF NATURAL RESOURCES &  
ENVIRONMENTAL CONTROL  
**DIVISION OF WATER**  
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**WASTEWATER TREATMENT PLANT OPERATOR  
EXAMINATION STUDY GUIDE**

<b>LEVEL I</b>		
<i>Section</i>	<i>Title</i>	<i>Questions</i>
1	Wastewater Mathematics	13
2	Wastewater Chemistry and Microbiology	31
3	Preliminary Treatment Processes	11
4	Sedimentation	8
5	Activated Sludge	13
6	Trickling Filters and RBCs	12
7	On-Site Systems	12
8	Treatment Ponds	10
9	Sludge Digestion and Solids Handling	21
10	Land Treatment	14
11	Chlorination and Disinfection	12
12	Maintenance and Safety	25
<i>Total Number of Questions on the Level I Exam</i>		<b>182</b>

<b>LEVEL II</b>		
<i>Section</i>	<i>Title</i>	<i>Questions</i>
1	Wastewater Mathematics	17
2	Wastewater Chemistry and Microbiology	42
3	Preliminary Treatment Processes	14
4	Sedimentation	20
5	Activated Sludge	30
6	Trickling Filters and RBCs	12
7	On-Site Systems	12
8	Treatment Ponds	12
9	Sludge Digestion and Solids Handling	36
10	Land Treatment	22
11	Chlorination and Disinfection	23
12	Maintenance and Safety	35
<i>Total Number of Questions on the Level II Exam</i>		<b>275</b>

*Delaware's good nature depends on you!*

**WASTEWATER TREATMENT PLANT OPERATOR  
EXAMINATION STUDY GUIDE (CONT.)**

<b>LEVEL III</b>		
<i>Section</i>	<i>Title</i>	<i>Questions</i>
1	Wastewater Mathematics	22
2	Wastewater Chemistry and Microbiology	56
3	Preliminary Treatment Processes	16
4	Sedimentation	20
5	Activated Sludge	35
6	Trickling Filters and RBCs	12
7	On-Site Systems	12
8	Treatment Ponds	12
9	Sludge Digestion and Solids Handling	53
10	Land Treatment	22
11	Chlorination and Disinfection	26
12	Maintenance and Safety	35
<i>Total Number of Questions on the Level III Exam</i>		<b>321</b>

<b>LEVEL IV</b>		
<i>Section</i>	<i>Title</i>	<i>Questions</i>
1	Wastewater Mathematics	22
2	Wastewater Chemistry and Microbiology	56
3	Preliminary Treatment Processes	16
4	Sedimentation	20
5	Activated Sludge	36
6	Trickling Filters and RBCs	12
7	On-Site Systems	12
8	Treatment Ponds	12
9	Sludge Digestion and Solids Handling	53
10	Land Treatment	22
11	Chlorination and Disinfection	26
12	Maintenance and Safety	35
13	Management Tasks	29
14	Advanced Wastewater Skills	48
15	Troubleshooting	28
16	Industrial Wastewater	34
17	MSDS and Hazard Communications	7
18	Toxicity Testing, Pollution Prevention and Environmental Audits	17
<i>Total Number of Questions on the Level IV Exam</i>		<b>485</b>