

Umpqua Basin Operators Section PNCWA

Wastewater Exam Preparation Course – March 21 & 22, 2022

Lance Mason – Instructor

WASTEWATER TREATMENT AND COLLECTIONS – Grade III/IV

Tentative Time	Subject – March 21st
08:00	Introduction to the Grade III/IV Exam
08:15	Wastewater Exam Strategies
08:30	Flowrates, Pumps, and Lift Stations
09:45	Group Quiz #1 – Flowrates, Pumps, and Lift Stations
10:15	Break
10:30	Davidson Pie for Wastewater Mass, Flow, and Concentration problems
11:30	Group Quiz #2 – Mass, Flow, Concentration
12:00	Lunch Provided Onsite
13:00	Sanitary Sewer Construction
14:00	Raw Sewage Composition And Preliminary/Primary Treatment
15:00	Break
15:15	Group Quiz #3 – Raw Sewage Composition And Preliminary/Primary Treatment and Sanitary Sewer
16:00	Safety & Maintenance
16:30	Closing Discussions, Questions, and Unfinished Business
17:00	End of Day

Tentative Time	Subject – March 22nd
08:00	Group Quiz #4 – Cumulative Review
09:15	Break
09:30	Wastewater Management Skills
10:00	Secondary Treatment Systems
11:30	Group Quiz #5 – Secondary Treatment Systems
12:00	Lunch Provided Onsite
13:00	Solids Handling
13:45	Group Quiz #6 – Solids Handling
14:00	Break
14:15	Wastewater Collection Inspection & Cleaning Systems
15:00	Wastewater Disinfection and Laboratory Testing
16:00	Quiz #7 – Collection System Inspection & Cleaning, Disinfection, and Laboratory
16:30	Closing Discussions, Questions, and Unfinished Business – Practice Exam (Take Home)
17:00	End of Course