Utah Mastery - Treatment	Treatment I		Treatment II		Treatment III		Treatment IV	
Objective	Points Possible	Average Points	Points Possible	Average Points	Points Possible	Average Points	Points Possible	Average Points
Perform Admin Duties	4	4.58	5	3.57	5	2.89	4	2.92
Perform administrative duties, such as complying with regulatory and recordkeeping requirements.								
Perform Admin Duties-Math							2	0.92
Perform mathematical calculations related to administrative duties, such as budgeting.								
Collect Samples & Interpret Analysis	7	4.67	3	1.21	6	4.11	7	4.08
Perform mathematical calculations related to evaluating equipment, such as calculating pressure head								
Evaluate Wastestream-Math	1	0.58	1	0.43			1	0.77
Inspect equipment and read charts, meters and pressure gauges								
Effluent Discharge & Reuse-Math			1	0.29	1	0.22		
Perform mathematical calculations related to discharge to lagoons, on-site disposal, solids composting, etc.								
Effluent Discharge & Reuse	1	0.83						
Monitor, evaluate, and adjust discharge to lagoons, on-site disposal, solids composting, etc.								
Evaluate Equipment-Math			1	0.5	2	1.44	2	0.92
Perform mathematical calculations related to evaluating equipment, such as calculating pressure head.								
Evaluate Operation of Equip	2	0.92	6	3.64	3	2.78	3	1.92
Inspect equipment and read charts, meters and pressure gauges.								
Evaluate Wastestream Characteristics	4	3.08	4	2.57	5	2.44	4	2.73
Evaluate color, flow pattern, foam, odor, temperature, volume, solids concentration, and mixing pattern of wastestream.								
Interpret Laboratory Analyses-Math			1	0.43			1	0.54
Perform mathematical calculations related to BOD, chlorine residual, dissolved oxygen, pH, solids, etc.								
Interpret Laboratory Analyses	1	0.83	5	3.36	4	1.89	2	1.08
Interpret results for BOD, chlorine residual, dissolved oxygen, pH, solids, etc.								
Additional Treatment					1	0.67	2	0.92
Chemical Addition	2	1.33			1	0		
Monitor, evaluate, and adjust dry, gaseous, and liquid chemicals.								
Chemical Addition-Math	2	1.5			1	0.56	1	0.58
Perform mathematical calculations related to monitoring, evaluating, and adjusting dry, gaseous, and liquid chemicals.								
Disinfection-Math			1	0.57	1	0.56	1	0.58
Perform mathematical calculations related to monitoring, evaluating, and adjusting the disinfection process.								
Disinfection	1	0.75	3	1.64	3	1.89	4	2.65
Monitor, evaluate, and adjust the disinfection process.								
Preliminary Treatment	5	3.08	2	0.93				
Monitor, evaluate, and adjust plant pumping of main flow, screening, grit removal, and flow equalization.								
Primary Treatment	4	2.67	2	1.14	1	0.33		
Monitor, evaluate, and adjust clarifiers.								
Primary Treatment-Math	1	0.67			1	0.67	1	0.5
Perform mathematical calculations related to clarifiers.								
Secondary Treatment	6	3.83	10	5.07	10	4.89	4	1.46
Monitor, evaluate, and adjust fixed-film reactors, activated sludge, and stabilization ponds.								
Secondary Treatment-Math	2	0.42	4	1.86	3	1.44	8	3.27
Perform mathematical calculations related to fixed-film reactors, activated sludge, and stabilization ponds.								
Solids Handling	3	2.25	5	2.5	3	0.89	6	2.46
Monitor, evaluate, and adjust conditioning, dewatering, stabilization, thickening, and volume reduction.								
Solids Handling-Math	2	1.08			4	2.33	1	0.62
Perform mathematical calculations related to conditioning, dewatering, stabilization, thickening, and volume reduction.								
Advanced (Tertiary) Treatment	2	1.75	5	2.5	3	1.33	6	3.46
Monitor, evaluate, and adjust carbon adsorption, air stripping, chemical coagulation, precipitation, nitrification, denitrification, phosphorus removal, etc.								
General Math	3	1.5	1	0.57	1	0.56		
Perform mathematical calculations such as flow measurement.								
Operate Equipment	17	11.75	16	10.21	16	9.78	15	9.65
Operate support equipment, such as blowers, chemical feeders, motors, pumps and valves.								
Operate Equipment-Math							1	0.58
Perform mathematical calculations for operating equipments, such as detention time, dosage, efficiency, feed rate, and pumping rate.								
Perform Laboratory Analyses	5	2.5	7	4.07	7	3.44	8	3.85
Perform laboratory analyses for alkalinity, chlorine residual, dissolved oxygen, pH, settleability testing, solids, temperature, turbidity, etc.								
Perform Laboratory Analyses-Math					2	1.11	1	0.19
Perform math calc. related to laboratory analyses for alkalinity, chlorine residual, dissolved oxygen, pH, settleability testing, solids, temperature, turbidity, etc.								
Maintain Equipment	14	11.17	8	6.36	10	6.22	10	7.19
Maintain chemical feeders, motors, pumps, valves, etc.								
Maintain Equipment-Math								
Perform mathematical calculations such as area and volume.								
Perform Security & Safety Procedures	9	7.67	7	5.5	4	2.56	1	0.96
Perform security and safety procedures, such as confined space entry, lock-out/tag-out, and personal protective equipment.								
Perform Security Procedures			2	1.36	1	0.67	4	2.69
Perform Security Procedures related to emergency preparedness.								