

**ASSOCIATION OF BOARDS OF CERTIFICATION
CONTINUING EDUCATION COURSE TOPIC GUIDELINES
FOR WASTEWATER COLLECTION OPERATORS
Effective January 1, 2009**

Continuing Education Topics	Approved for Wastewater Collection Operators as Noted
General	
Basic Computers	X
Basic Electricity for Operators	X
Basic Hydraulics	X
Geographic Info Systems (GIS)	X
Math for Operators	X
Water Chemistry	Not approved
Water Microbiology	Not approved
Safety	
Backhoe Operator	X
Chlorine Safety	X
Confined Space	X
Electrical Hazards	X
Excavations, Trenching/Shoring/ Competent Person	X
Hazard Communication/Right-to-Know	X
Lab Safety	Not approved
Lockout/Tagout	X
Personal Protective Equipment / Respiratory Protection	X
Safe Handling of Materials	X
Spill Response	X
Traffic Control/Work Zone Safety	X
Water & Blood-borne Pathogens	X
O & M Equipment	
Aeration Equipment	Not approved
Belt Filter presses	Not approved
Blowers and Compressors	Not approved
Booster Pumping Stations	Not approved
Centrifuges	Not approved
Chemical Storage/Feed Systems	X
Cleaning Equipment such as Jetting and Vac Trucks	X
Cross Connection/Backflow Prevention Equipment	X
Electrical controls/SCADA	X
Flow Monitoring & Level Sensing Equipment	X
Generators/Switchgear	X

Hydraulic and Pneumatic Equipment	X
Inspection Equipment such as CCTV, smoke testing, etc.	X
Instrumentation	X
Leak Detection	X
Cathodic Protection	X
Mechanical Process Equipment	Not Approved
Motor Control Centers	X
Motors/Engines/Drives	X
Pipe, Valves, Fittings	X
Programmable Logic Controllers	X
Pumping/Lift Stations	X
Pumps	X
Stand-by/Aux/Support Equip	X
Variable Freq Drives	X
WW Treatment Process/Quality Control	
Advanced WW Treatment - Nutrient Removal	Not approved
Attached Growth/Fixed Film Systems (Trickling Filters, RBCs)	Not approved
Biosolids Disposal/ Land Application/Incineration	Not approved
Chemical Storage & Handling	X
Chemical Treatment/ odor control	X
Coupled Systems: TF/AS, TF/SC	Not approved
Disinfection/Deactivation	Not approved
Effluent Discharge & Reuse	Not approved
Fats, Oil and Grease Removal	X
Grit Removal	X
Influent/Sidestream Characterization	Not approved
Membrane Processes: Membrane Bioreactors and Effluent Filtration	Not approved
Natural Systems - Lagoons, Constructed Wetlands, etc.	Not approved
Odor Control	X
Process Control Techniques	Not approved
Process Optimization	Not approved
Sampling/Analysis	X
Sand/Media Filters	Not approved
Screens/Grinders/Comminutors	X
Sedimentation/Clarification	Not approved
Septage Receiving and Treatment	X
Sludge Conditioning, Dewatering, Stabilization, and Reduction	Not approved
Suspended Growth Systems (Act Sludge)	Not approved
WW Collection Process	
Cleaning/Flushing & Pigging	X
Corrosion Control	X

Flow Measurement: Open Channel & Pipe	X
Infiltration/Inflow/Exfiltration	X
Inspection & Condition Assessment	X
Manhole Rehabilitation	X
Odor Control	X
Overflows and Bypass Control	X
Pumping/Lift Stations	X
Sampling & Lab Analysis	X
Service Lines & Connections	X
Sources & Characteristics	X
Stormwater Separation	X
Trenchless Technologies for Pipe Rehabilitation	X
Administration/ Management	
Capacity, Management, Operation & Maintenance for Separate Systems	X
Compliance	X
Construction Inspection/ Documentation/ Design Build	X
Community/Public Relations/Complaint Response	X
Design Manual Development	X
Emergency Response Planning & Security Training	X
Energy Efficiency/ Energy Conservation at W/WW Facilities	X
Federal & State Financing Programs	X
Finance, Budget, Rate Setting	X
FOG Management Programs	X
Health and Safety Program Implementation	X
Industrial Pretreatment Programs/ Source Control	X
Legal Issues for W/WW Utilities	X
Records and Reports: Monitoring/Reporting/Records Management	X
Nine Minimum Controls for Combined Systems	X
Planning/Organization/Project Management	X
Plant Optimization: Contin Process Improve/Sustainability/Asset Management/Statistical Process Control Techniques	Not Approved
Private Property Issues/Service Laterals	X
Problem Solving/Troubleshooting/Decision Making	X
Regs (CWA/SDWA, State & Local such as Operator Certification Requirements), NPDES Permit Requirements	X
Right-of-Way Management/Maintenance	X
Risk Management	Not Approved
Sanitary Surveys/plant/system inspections	X
Sewer Use Ordinances and Moratoriums	X
SSO/CSO Reduction/Elimination (Sanitary Sewer Overflow/ Combined Sewer Overflow)	X

Supervision and Personnel Management/ Communication Skills	X
Surface Water/Groundwater/Watershed Protection	X
TMDLs	Not Approved
Training/Teaching Skills	Not Approved
Wet Weather Control Procedures	X

X= approved for continuing education credit