

Wastewater Continuing Education Coordinator

April 13, 2010

Contact Hour Breakdown

Due to the confusion of what types of courses may constitute “technical” subjects and what may constitute “general” subjects, the following information and guidance lists have been prepared.

Definitions: Quoted material from 327 IAC 5-22-16 (a) (2) (A)

Technical: “(i) Technical matters related directly to wastewater treatment **plant and sewer system operations, maintenance, management, or supervision.**”

In practice, this is determined to be those courses for which the case is either obviously or well described as dealing directly with wastewater treatment. Examples generally provided include courses in Activated Sludge, WWTP operations, Wastewater Mathematics, etc.

General: “(ii) General matters that **enhance the performance of the certified operator’s responsibilities but are not directly related to wastewater treatment plant and sewer system operations, maintenance, management, or supervision.**”

This is typically used as the “catch-all” category for such things that an operator may need to do or know, such as OSHA training, first aid/CPR, Rules/Regulations/Permits review sessions, etc. Courses that have some inherent relation to the work of a wastewater operator, but are not well justified as *directly dealing with wastewater treatment* are usually granted general credit.

Examples – Technical: (Non-exhaustive)

The following is a list of courses/course categories commonly approved for technical credit:

- Activated Sludge
- Aerobic & Anaerobic Sludge Digestion
- Aerobic Digestion & Sludge Yield Reduction
- Air Stripping & Carbon Absorption
- Ammonia, pH and Chlorine
- Biological Nutrient Removal
- BOD and Metabolism
- BOD, DO and COD
- Chemical Treatment Processes
- Chlorination Facilities Operation and Maintenance
- Chlorinators
- Chlorine Dioxide
- Collection System O & M
- Corrective Preventive Maintenance
- Emerging Waterborne Pathogens
- Environmental Compliance
- Graphite Furnace Analysis
- Hazardous Materials
- Heavy Metals Treatment
- Industrial Treatment of Metal Wastestreams
- Industrial Waste Treatment
- Laboratory Procedures
- Lift Station Operations
- Package Plant Operations
- Plant Tours
- Pretreatment Training
- Pump Basics
- Residuals
- Screening and Grinding Equipment
- Sludge Digestion Topics
- Solids Handling Topics
- Stream Modeling
- Terrorism Preparedness & Response
- Treatment Chemistry
- Wastewater Certification Review
- Wastewater Formulas
- Wastewater Laboratory Procedures
- Wastewater Mathematics
- Wastewater Treatment Operator Safety Training
- Water and Wastewater Sampling

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Examples – General: (Non-exhaustive)

The following is a list of courses/course categories commonly approved for General credit:

- Accounting
- Adult Cardiopulmonary Resuscitation
- Access, Excel, Word & other office software trainings
- Backflow Topics
- Bloodborne Pathogens
- Emergency Action Plan
- Emergency Response
- Fall Protection
- Fire Prevention & Safety
- First Aid
- Hazard Communications
- Hazardous Materials First Responder/Technician
- HAZWOPER
- OSHA Trainings
- Personal Protective Equipment
- RCRA Topics
- Respiratory Protection/SCBA
- Trenching & Shoring
- Trenchless Technologies
- Workplace Safety

The following is a list of courses/course categories that would be commonly approved as general unless focused toward wastewater operators:

- Chlorine Safety
- Confined Space Entry
- Electrical Safety
- Environmental Management Systems
- Laboratory Safety
- Lockout/Tagout
- NPDES/Water Quality Regulations