

Examples of Approved Subject Matter for Continuing Education Requirements

Water Treatment

I. General Knowledge

- A. Sources of Water
- B. Water Characteristics
- C. Basic and Applied Math
- D. Industrial Safety including, but not limited to:
 - 1. Confined Space
 - 2. Trenching & Shoring
 - 3. Personal Protection Equipment
 - 4. Laboratory
 - 5. Electrical
 - 6. Lockout/Tag out
 - 7. Blood Borne Pathogen
 - 8. Personal Hygiene
 - 9. Traffic
 - 10. Chemical
 - 11. Fire
 - 12. Workplace Violence
 - 13. Plant Housekeeping
- E. Laboratory Skills
- F. Common Parameters
- G. Basic Electrical Concepts
- H. Basic Hydraulic Concepts
- I. Goals of Water Treatment
- J. Regulatory Issues
- K. Water Supply Concepts
- L. Backflow Prevention

II. Support Systems

- A. Electrical/Mechanical Equipment
- B. Engines
- C. Plumbing
- D. Measuring Systems
- E. Control Systems
- F. Chemical Feeders
- G. HVAC
- H. Pumps

III. Unit Process/Process Control

- A. Screening
- B. Aeration
- C. Presedimentation
- D. Chemical Pretreatment
- E. Micro straining
- F. Coagulation/Flocculation
- G. Sedimentation
- H. Filtration
- I. Softening
- J. Adsorption
- K. Stabilization (corrosion control)
- L. Fluoridation
- M. Disinfection

- N. Taste and Odor Control
- O. Iron and Manganese Control
- P. Demineralization
- Q. Distillation
- R. Trihalomethane Control
- S. Storage and Pumping
- T. Residuals Dewatering
- U. Residuals Recycling
- V. Residuals Conditioning

IV. Laboratory Sampling and Analysis (all parameters)

V. Technical Supervision/Management

- A. Planning
- B. Personnel Systems
- C. Financial Systems
- D. Maintenance Management Systems
- E. Management Information Systems
- F. Emergency Response Systems
- G. Public Relation Systems
- H. Plant Security Systems
- I. Safety Systems
- J. Process Management Systems