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| Course Title | Anaerobic Digestion Theory and Practice | | |
| Summary of Lesson Content | <p>Lesson presents anaerobic digestion theory and practical operation through the following areas: Theory of Operation, Design Parameters and Performance, Process Variables, Process Controls, Data Collection, Sampling and Analysis, Equipment, Operation, Maintenance, Troubleshooting, and Safety. This course utilizes the curriculum from the WEF Publication Wastewater Treatment Fundamentals II Solids Handling and Support Systems and the material from the accompanying Trainers Kit.</p> | | |
| Training Goal | <p>Attendee will gain the knowledge to more effectively understand, operate, and evaluate anaerobic digesters. The understanding of the fundamental science of aerobic digestion biology, the importance of representative sampling, process control and variables, equipment operation and maintenance, and troubleshooting will lead to more stable digester operation, fewer upsets, and faster troubleshooting when upsets do occur.</p> | | |
| Subject | Outline | Start Time | End Time |
| Theory and Design | | 0 | 1:00 |
| | Theory of Operation Design Parameters and Performance | | |
| Data and Process Control | | 1:00 | 2:00 |
| | Process Variables Process Controls Data Collection, Sampling and Analysis | | |
| Break | | 2:00 | 2:30 |
| Equipment and O&M | | 2:30 | 3:30 |
| | Equipment Operation Maintenance | | |
| Troubleshooting and Safety | | 3:30 | 4:30 |
| | Troubleshooting Safety | | |
| Instructors | Title | Employer | |
| Chris Maher | Senior Operations Analyst | Clean Water Services | |
| Ornella Sosa Hernandez | Operations Analyst I | Clean Water Services | |
| Kevin Wegener | Operations Analyst II | Clean Water Services | |