



Agenda • January 2020

Municipal Sewer Grout School

DAY 1 • Wednesday, January 22, 2020

| Time | Item | Instructor(s) | Location |
|--|--|--|------------------|
| 7:30-8:00 | Arrival & breakfast | | Classroom |
| 8:00-8:30 | Welcome: How to get the most of the next two days, introductions | Team | Classroom |
| 8:30-9:15 | Introduction to Municipal Grouting | Britt Babcock | Classroom |
| 9:15-10:00 | Infiltration control through remotely operated equipment | Marc Anctil | Classroom |
| 10:00-10:15 | BREAK | | |
| 10:15-10:30 | Infiltration flow rate demo in sewer pipe bedding soils | Ron Manestar | Shop |
| 10:30-11:00 | Grout Truck Introduction | Ron Manestar | Classroom & Shop |
| 11:00-11:45 | Introduction to NASSCO/ICGC specification with charts & formula | Marc Anctil | Classroom |
| 11:45-12:30 | LUNCH | | |
| 12:30-12:50 | Pressure Transducer | Ron Manestar Marc Anctil | Classroom |
| 12:50 -1:05 | Hydraulic water pressure & transducer example (mainline plexiglass) | Ron Manestar Marc Anctil | Shop |
| 1:05-3:05 5 groups - 24 min each | 1. Pump station 2. Check-valve station (panel) 3. Grout station (AV-100 & Urethanes) 4. Grout panel (truck) 5. Urethane grout pump (troubleshooting) | Marc Anctil Ron Manestar Britt Babcock Chris Hamilton | Shop |
| 3:05-3:20 | BREAK | | |
| 3:20-4:20 | Grout truck system with water <ul style="list-style-type: none"> • Bucket test • Packer ASTM test on system integrity • Packer pump/void calculation • Questions on gel times/flow rates | Ron Manestar Marc Anctil Britt Babcock | Shop |
| 4:20-5:05 | <ul style="list-style-type: none"> • Annulus flow demonstration in line pipe • Lateral packer operation in plexiglass pipe | Marc Anctil Ron Manestar | Shop |
| 5:05-5:30 | Recap of day, Q&A | All | Class |
| 5:30-7:00 | DINNER | | |



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DAY 2 • Thursday, January 23, 2020

| Time | Item | Instructor(s) | Location |
|-------------|---|--|-----------|
| 7:30-8:00 | Arrival + Breakfast | | |
| 8:00-9:30 | SOPP Certification--Grouting material safety training course & test | Britt Babcock | Classroom |
| 9:30-9:45 | BREAK + Class Photo | | |
| 9:45-10:30 | Grout Tank Mixing | Britt Babcock | Shop |
| 10:30-11:15 | Logiball Packer Presentation & Maintenance | Marc Anctil | Shop |
| 11:15-11:45 | Hydrometer test, Temperature effects on gel time | Britt Babcock | Classroom |
| 11:45-12:30 | Manhole rehab (injection grouting) presentation & demo | Britt Babcock | Classroom |
| 12:30-1:00 | LUNCH | | |
| 1:00 – 1:30 | Prepare sand grout box & packer | Marc Anctil Ron Manestar | Shop |
| 1:30 – 2:00 | Annulus grouting of lined pipe | Marc Anctil Ron Manestar | Shop |
| 2:00 – 2:30 | Lateral connection sealing demo | Marc Anctil Ron Manestar | Shop |
| 2:30 - 2:45 | BREAK | | |
| 2:45 – 3:15 | Open discussion | Marc Anctil Ron Manestar Britt Babcock | Classroom |
| 3:15-3:30 | Complete evaluation form | | |
| 3:30-4:00 | Issue Certificate of Completion | | |
| 4:00 | End of school – safe travels! | | |