



Municipal Sewer Grout School Agenda | September 11-12, 2019

DAY 1 • Wednesday, September 11, 2019

Time	Item	Instructor(s)	Location
7:30-8:00	Arrival & breakfast of champions		Classroom
8:00-8:30	Welcome: How to get the most of the next two days, introductions	Ron Manestar Britt Babcock	Classroom
8:30-9:15	Introduction to Municipal Grouting	Britt Babcock	Classroom
9:15-10:00	Infiltration control	Marc Anctil	Classroom
10:00-10:15	BREAK		
10:15-10:45	Infiltration flow rate demo in sewer Pipe bedding soils	Ron Manestar	Shop
10:45-11:15	Grout truck introduction	Ron Manestar	Classroom & Shop
11:15-12:00	Introduction to ICGC/NASSCO specification with charts & formula	Marc Anctil	Classroom
12:00-12:45	LUNCH		
12:45-1:05	Pressure transducer	Ron Manestar Marc Anctil	Classroom
1:05-1:20	Hydraulic water pressure & transducer example (mainline plexiglass)	Ron Manestar Marc Anctil	Shop
1:20-3:20 5 groups - 24 min each	<ol style="list-style-type: none"> 1. Pump station 2. Check-valve station (panel) 3. Grout station (AV-100 & Urethanes) 4. Grout panel (truck) 5. Urethane grout pump (troubleshooting) 	Chris Kasper Marc Anctil Britt Babcock Ron Manestar Jacob Swanson	Shop
3:20-3:35	BREAK		
3:35-4:35	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
4:35-5:20	<ul style="list-style-type: none"> • Annulus flow demonstration in line pipe • Lateral packer operation in Plexiglas pipe 	Marc Anctil Ron Manestar	Shop
5:20-5:35	Recap of day, Q&A	All	Class
5:45-7:00	DINNER & REFRESHMENTS Private catered event at The Machine Shed, located across from the Holiday Inn Pewaukee-Milwaukee West	The Machine Shed N14 W24145 Tower Pl Pewaukee, WI 53188 (262) 523-1322	



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DAY 2 • Thursday, September 12, 2019

Time	Item	Instructor(s)	Location
7:30-8:00	Arrival, breakfast & class photo		
8:00-9:30	SOPP Certification—Safe Operating Practices Program	Jacob Swanson	Classroom
9:30-9:45	BREAK		
9:45-10:30	Grout tank mixing	Britt Babcock, Jacob Swanson & volunteer	Shop
10:30-11:15	Packer presentation & maintenance	Marc Ancil	Shop
11:15-11:45	Hydrometer test, temperature effects on gel time	Britt Babcock, Jacob Swanson	Classroom
11:45-12:30	Manhole rehab w/ injection grouting - presentation & demo	Britt Babcock, Jacob Swanson	Classroom
12:30-1:00	LUNCH		
1:00 – 1:30	Tour of Aries Industries Facilities - Production, Engineering	4 Tour Guides	4 groups of 8
1:30 - 2:00	Prepare sand grout box & packer	Marc Ancil Ron Manestar	Shop
2:00 - 2:30	Annulus grouting of lined pipe	Marc Ancil Ron Manestar	Shop
2:30 - 3:00	Lateral connection sealing demo	Marc Ancil Ron Manestar	Shop
3:00-3:15	BREAK		
3:15-3:30	Open discussion	Marc Ancil Ron Manestar Britt Babcock Jacob Swanson	Classroom
3:30-3:45	Complete Evaluation Form	Ron Manestar Britt Babcock	Classroom
3:45-4:00	Issue Certificate of Completion	Ron Manestar Britt Babcock	Classroom
4:00	End of school – safe travels!		