



Municipal Sewer Grout School

Waukesha • September 2022

DAY 1 • Wednesday, September 28, 2022

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	Avanti TBD	Classroom
9:15 - 10:00	Infiltration control through remotely operated equipment	Marc Ancil	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 - 12:00	Introduction to NEW NASSCO/ICGC specifications	Britt Babcock Marc Ancil	Classroom
12:00 - 12:30	LUNCH		
12:30 - 1:10	Pressure Transducer + Grout Panel (40 min)	Ron Manestar Marc Ancil	Classroom & Shop
1:10 - 1:25	Hydraulic water pressure & transducer example (mainline plexiglass)	Ron Manestar	Shop
1:25 - 3:00 3 groups – 35 min each	1. Pump station/Check Valve – RM 2. Grout station (AV-100/Urethanes) - KS 3. Urethane grout pump (troubleshoot) - CH	Ron Manestar Britt Babcock Avanti TBD	Shop
3:00 - 3:15	BREAK		
3:15 - 4:15	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 Avanti TBD	Shop
4:15 - 5:00	<ul style="list-style-type: none"> • Annulus flow demonstration in line pipe • Lateral packer operation in plexiglass pipe 	Ron Manestar	Shop
5:00 - 5:30	Recap of day, Q&A	Team	Class
5:30-6:30	NETWORKING HAPPY HOUR - TBD	Join us for appetizers + beer/wine for happy hour!	

*Agenda subject to change



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DAY 2 • Thursday, September 29, 2022

Time	Item	Instructor(s)	Location
7:30-8:00	Arrival + Breakfast		
8:00-9:15	SOPP Certification - Grouting material safety training course & test	Avanti TBD	Classroom
9:15-9:30	BREAK + Class Photo		
9:30-10:15	Grout Tank Mixing	Avanti TBD	Shop
10:15-11:00	Logiball Packer Presentation & Maintenance	Marc Ancil	Classroom/Shop
11:00-11:30	Hydrometer test, Temperature effects on gel time	Avanti TBD	Classroom
11:30-12:30	Manhole Rehab Presentation & Demo	Avanti TBD	Classroom/Shop
12:30-1:00	LUNCH		
1:00 – 1:30	Sand Grout Box & Mainline Packer	TEAM	Shop
1:30 – 2:00	Annulus Grouting of Lined Pipe		Shop
2:00 – 2:30	Lateral Connection Sealing Demo		Shop
2:30 - 2:45	BREAK		
2:45 – 3:15	Open discussion	Marc Ancil Ron Manestar Avanti TBD	Classroom
3:15-3:30	Complete evaluation form		
3:30-4:00	Issue Certificate of Completion		
4:00	End of school – safe travels!		

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