



# Municipal Sewer Grout School

## Waukesha • September 2023

**DAY 1 • Wednesday, September 20, 2023**

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	Jacob Swanson	Classroom
9:15 - 10:00	Infiltration control through remotely operated equipment	Marc Anctil	Classroom
10:00 - 10:15	<b>BREAK</b>		
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 - 11:50	Introduction to <b>NEW</b> NASSCO/ICGC specifications	Marc Anctil	Classroom
11:50 - 12:30	<b>LUNCH</b>		
12:30 - 12:50	Pressure Transducer	Ron Manestar Marc Anctil	Classroom
12:50 - 1:00	Hydraulic water pressure & transducer example (mainline plexiglass)	Marc Anctil	Shop
1:00 - 3:00 4 groups – 30 min each	1. Pump station - Jerry 2. Check Valve - Marc 3. Grout station (AV-100/Urethanes) - Jake 4. Grout Truck - Ron	Team	Shop
3:00 - 3:15	<b>BREAK</b>		
3:15 - 4:15	Grout truck system with water <ul style="list-style-type: none"><li>• Bucket test</li><li>• Packer ASTM test on system integrity</li><li>• Packer pump/void calculation</li><li>• Questions on gel times/flow rates</li></ul>	Team	Shop
4:15 - 5:00	<ul style="list-style-type: none"><li>• Annulus flow demonstration in line pipe</li><li>• Lateral packer operation in plexiglass pipe</li></ul>	Ron Manestar	Shop
5:00	Recap of day, Q&A	Team	Class
5:30 - 7:00	<b>NETWORKING DINNER - TBD</b>		

\*Agenda subject to change



# Municipal Sewer Grout School

## Waukesha • September 2023

**DAY 2 • Thursday, September 21, 2023**

Time	Item	Instructor(s)	Location
7:30 - 8:00	Factory Tour		Shop
7:30 - 8:00	Arrival + Breakfast	Team	Classroom
8:00 - 9:15	Safe Operating Practices Program (SOPP) - Grouting material safety training & test	Jacob Swanson	Classroom
9:15 - 9:30	BREAK + Class Photo		
9:30 - 10:15	Grout Tank Mixing	Jacob Swanson + Volunteer	Shop
10:15 - 11:00	Logiball Packer Presentation & Maintenance	Marc Anctil	Shop
11:00 - 11:30	Hydrometer test, Temperature effects on gel time	Jake Swanson	Classroom
11:30 - 12:30	Manhole Rehab Presentation & Demo	Jake Swanson	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	Team	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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