

Manhole & Underground Concrete Structure Rehab School

Kansas City • December 2018

DAY 1 • Tuesday, December 4, 2018

Time	Item	Instructor(s)	Location
7:30	Arrival & breakfast		Classroom
8:00	Welcome	Don Rigby, Avanti	Classroom
8:30	Consequences of I&I and the sources. <u>The Why.</u> It's important we do what we do. Safety moments.	Don Rigby, Avanti	Classroom
9:00	Why manhole condition assessment is vital	Pierre Mikhail, Cues	Classroom
10:00	BREAK		
10:15	Methodologies & technologies for manhole assessment	Pierre Mikhail, Cues	Classroom
11:15	Grout first to stop water intrusion	Jake Swanson, Avanti Don Rigby, Avanti	Classroom
12:00	LUNCH		
12:30	Demo: Introduction to conveyance equipment (pump/gun). Techniques for sealing manhole structures.	Jake Swanson, Avanti	Warehouse
1:30 (30)	Surface preparation	Emily Lanier, Strong Co. John McGill, Raven / VersaFlex	Classroom
2:00	Cementitious Lining <ul style="list-style-type: none"> • Calcium aluminate vs geo polymer • OPC vs calcium aluminate vs geo polymer • Quality control measures 	Emily Lanier, Strong Co.	Outdoor Tent
2:30	Demo: Precast MH, Calcium aluminate, cementitious trowel application, including conveyance equipment	James (Trey) Moser, Strong Co.	Warehouse
3:00	BREAK		
3:15	Demo: Precast manhole <ul style="list-style-type: none"> • Calcium aluminate with fiber • Cementitious spray-apply calcium aluminate 	James (Trey) Moser, Strong Co.	Warehouse
3:45	Primer presentation on epoxy lining/coating	Kathy Romans, Raven	Classroom
4:30	Recap of day, Q&A	All instructors	Classroom
	Evening Networking Activity	INSERT LOCATION & ADDRESS	

**Agenda subject to change.*



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DAY 2 • Wednesday, December 5, 2018

Time	Item	Instructor(s)	Location
7:30	Arrival & breakfast		
8:00	Intro to day two. Class photo.		Classroom
8:30	Epoxy coating: Extending the life of manhole structures	Kathy Romans, Raven	Classroom
9:15	Quality control: Begin with the end in mind. Spark testing, defects, holiday, repairs.	John McGill, Raven / VersaFlex	Classroom
9:45	BREAK		
10:00	Hands-on Laboratory / Breakout Sessions: Small group rotation (20 minutes per station, 5 stations)	All	Warehouse
11:45	LUNCH		
12:30	Epoxy conveyance equipment: Walk through operations, maintenance and troubleshooting.	Ryan Bauman, Raven	Warehouse
1:15	Application of epoxy: Precast manhole, first application	Ryan Bauman, Raven	Warehouse
2:15	BREAK		
2:30	Application of epoxy: Precast manhole, second application (with volunteers)	Ryan Bauman, Raven	Warehouse
3:30	Recap of day, Q&A	All	Classroom
4:00	Feedback form and certificates	All	Classroom
4:30	End of school – safe travels!		

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