



**OPERATOR TRAINING  
PUMP TROUBLE SHOOTING & MAINTENANCE**



**PRELIMINARY SCHEDULE OF EVENTS**

<b><u>Tuesday, July 20</u></b>	
5:30 PM (or before)	Arrive at TownePlace Suites Hotel at 1125 Guest Ct, Mansfield, OH
6:00 – 8:00 PM	Meet & Greet and Dinner: O’Charley’s Restaurant, 1335 N Lexington-Springmill Rd, Mansfield, OH
<b><u>Wednesday, July 21</u></b>	
7:00 – 8:00 AM	Breakfast in Hotel Lobby
8:00 AM	Depart Hotel for Gorman-Rupp Training Center, 600 S Airport Rd, Mansfield, OH
8:15 AM	Arrive at Gorman-Rupp Training Center
8:30 AM	Welcome - Opening Remarks & Group Photo
8:45 AM	Pump Basics – Types of Pumps, Performance Curves
10:00 AM	Break
10:15 AM	Pump Safety
10:45 AM	Tools of the Trade – Troubleshooters Toolbox
11:15 AM	Pump Failure Forensics – What Caused What? Learn to Identify Pump & System Problems
12:00 PM	Lunch (Provided)
12:30 PM	Factory Tour – How Pumps are Made – Castings - Components – Machining – Seals – Assembly – Etc.
1:30 PM	Pump Teardown – Submersible Pump – Maintenance Techniques
2:30 PM	Break
2:45 PM	Pump Teardown – Suction Lift Pump – Maintenance Techniques - Clearance Adjustment
4:00 PM	Q & A - Recap
4:30 PM	Adjourn for the Day
5:30 PM	Dinner – Steve’s Dakota Grill, 3101 Park Ave W, Mansfield, OH
<b><u>Thursday, July 22</u></b>	
7:00 – 8:00 AM	Breakfast in Hotel Lobby
8:00 AM	Depart Hotel for Gorman-Rupp Training Center
8:15 AM	Troubleshooting Tips and Guides – Tricks of the Trade
8:30 AM	Noisy Operation (Hydraulic Noise) – Cavitation, NPSH, Vortexing, Air Entrainment
8:45 AM	Integrinex Pump Controller Training
9:30 AM	Electrical Training Using Relay Logic Trainers
10:30 AM	Electrical Drawings 101 - Reading Electrical Drawings, Electrical Symbols, Control Logic
12:00 PM	Lunch (Provided)
12:30 PM	Pump Room or Pump Station Visit
2:00 PM	Closing Remarks – Q&A – Graduation
2:15 PM	Adjourn – Travel Home