



Service and Maintenance for Solids Control Equipment

About the Course

Proper installation, care, and repair are all vital components to maintaining a productive solids control system. This course is designed for the tradesperson with both mechanical and electrical responsibilities on solids control equipment. Students will have the opportunity to participate in a hands-on course related to all aspects of service for each piece of solids control equipment manufactured by Derrick (service overview of competitive equipment by request).

Main Areas of Focus

- Equipment identification, parts, preventative maintenance, and troubleshooting.
- Disassembly and reassembly of the following solids control equipment: **Shale shakers, Degasser, Hydrocyclones, Pumps, Agitators, and Centrifuge.**
- Related electrical components, troubleshooting, and electrical maintenance.
- Operating manual referencing.

Who Should Attend

The course is designed for new hires, rig personnel, civil and underground operators, mud engineers, service technicians, and any other rig personnel who directly with solids control processing equipment.

Course Specifics

Instructor: Roberto Revelo

Course Length: 5 days*

Time: 8:30 AM – 4:00 PM*

**Breakfast and lunch are provided*

Price: \$1,500.00

Class Limit: 5

Attire:

Jeans or pants

Shirt

Closed-toed shoes

Safety equipment/tools provided

*Schedule subject to change
based on enrollment*

	Course Name	Learning Targets	Solids Control Key Outcomes	Engagement
Monday	Derrick Equipment Company Overview	<ul style="list-style-type: none"> ✓ History ✓ Locations ✓ Services 	<ul style="list-style-type: none"> • Derrick key contacts & information 	
	Electrical Overview	<ul style="list-style-type: none"> ✓ Basics of voltage, amperage, ohms, and horsepower ✓ Wire stripping, identification, multimeter use, and troubleshooting 	<ul style="list-style-type: none"> • Understanding Derrick starters, motors, and wiring 	<ul style="list-style-type: none"> • Starter box labeling and identification • Motor cord assembly • Troubleshooting inside the starter box • Troubleshooting motors
	Operating Manual Overview	<ul style="list-style-type: none"> ✓ How to access manuals ✓ How to locate parts ✓ Wiring schematics 	<ul style="list-style-type: none"> • Proper equipment installation methods • Locating and ordering parts 	<ul style="list-style-type: none"> • Classroom overview of operating manual locations, access, and utilization.
	500 Series Shale Shaker	<ul style="list-style-type: none"> ✓ Design and overview ✓ Technical specifications ✓ Mechanical specifications 	<ul style="list-style-type: none"> • Service & preventative maintenance 	<ul style="list-style-type: none"> • Shaker disassembly • Parts identification and troubleshooting • Shaker reassembly • Hydraulic overview if applicable
Tuesday	Primer & Flo-Divider	<ul style="list-style-type: none"> ✓ Design and overview ✓ Technical specifications ✓ Mechanical specifications for primer 	<ul style="list-style-type: none"> • Service & maintenance on primer • Flo-divider recommendations & troubleshooting 	<ul style="list-style-type: none"> • Primer walk-around and parts identification • Flo-divider installation overview
	Hyperpool Shale Shaker	<ul style="list-style-type: none"> ✓ Design and overview ✓ Technical specifications ✓ Mechanical specifications 	<ul style="list-style-type: none"> • Service & preventative maintenance 	<ul style="list-style-type: none"> • Shaker disassembly • Parts identification and troubleshooting • Shaker reassembly
	Screen Technology	<ul style="list-style-type: none"> ✓ Brief history ✓ API RP 13 C ✓ Screen comparisons ✓ Screen performance 	<ul style="list-style-type: none"> • Screen sizing • Cut points • Issues • Care 	<ul style="list-style-type: none"> • Screen change on Derrick and competitive shakers • Screen microscope • Cost per foot/well tracking program • Screen animation
Wednesday	600 Series Shale Shaker	<ul style="list-style-type: none"> ✓ Design and overview ✓ Technical specifications ✓ Mechanical specifications 	<ul style="list-style-type: none"> • Service & preventative maintenance 	<ul style="list-style-type: none"> • Shaker disassembly • Parts identification and troubleshooting • Shaker reassembly • Starter box troubleshooting • Hydraulic overview
	Degasser	<ul style="list-style-type: none"> ✓ Design and overview ✓ Technical specifications ✓ Mechanical specifications 	<ul style="list-style-type: none"> • Proper connection & operation • Service & preventative maintenance 	<ul style="list-style-type: none"> • Safety overview • Degasser disassembly • Parts identification and troubleshooting • Degasser reassembly

Derrick Equipment Company

15630 Export Plaza Drive, Houston, Texas 77032 U.S.A.

Office: (281) 590-3003 Toll Free: (866) DERRICK Fax: (281) 590-6187 Email: info@derrick.com

Course Schedule				
Thursday	Hydrocyclones	<ul style="list-style-type: none"> ✓ Design and overview ✓ Technical specifications 	<ul style="list-style-type: none"> • Proper connection & operation • Service & preventative maintenance 	<ul style="list-style-type: none"> • Degasser disassembly • Parts identification and troubleshooting • Degasser reassembly
	Pumps	<ul style="list-style-type: none"> ✓ Design and overview ✓ Technical specifications ✓ Mechanical specifications 	<ul style="list-style-type: none"> • Proper connection & operation • Service & preventative maintenance 	<ul style="list-style-type: none"> • Pump disassembly • Parts identification and troubleshooting • Pump reassembly
	Mud Agitators	<ul style="list-style-type: none"> ✓ Design and overview ✓ Technical specifications ✓ Mechanical specifications 	<ul style="list-style-type: none"> • Proper installation • Service & preventative maintenance 	<ul style="list-style-type: none"> • Agitator disassembly • Parts identification • Agitator reassembly
Friday	Centrifuge	<ul style="list-style-type: none"> ✓ Design and overview ✓ Technical specifications ✓ Mechanical specifications 	<ul style="list-style-type: none"> • Proper installation • Service & preventative maintenance 	<ul style="list-style-type: none"> • Parts identification • Fundamental mechanical troubleshooting • Troubleshooting basic faults and alarms
	Solids Control Service Review	<ul style="list-style-type: none"> ✓ Quick quiz ✓ References ✓ Zip drive ✓ Course evaluation 	<ul style="list-style-type: none"> • Assessment for learning 	<ul style="list-style-type: none"> • Recap & discussion

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