

# Practical Drilling Fluids Technology School

3-Day Mud School



**Westport Technology Center  
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## Practical Drilling Fluids Technology School

<b>3-Day Mud School</b>			
	<b>Day 1</b>	<b>Day 2</b>	<b>Day 3</b>
<b>Morning</b>	<b>The Basics</b> <ul style="list-style-type: none"> <li>- Functions</li> <li>- API/ISO Standards</li> <li>- Properties</li> </ul>	<b>Rheology</b> <ul style="list-style-type: none"> <li>- Rheological Models</li> <li>- Effective Viscosity</li> <li>- Viscosity Profiles</li> </ul>	<b>Non-Aqueous Fluids</b> <ul style="list-style-type: none"> <li>- Formulations</li> <li>- Base Fluids</li> <li>- Oil/Water Chemistry</li> <li>- Additives</li> </ul>
	<b>Reporting and Analysis</b> <ul style="list-style-type: none"> <li>- Mud Report Form</li> <li>- Accuracy/Repeatability</li> <li>- Mud Technologists</li> </ul>	<b>Annular Hydraulics</b> <ul style="list-style-type: none"> <li>- Annular Shear Rates</li> <li>- Annular Viscosities</li> <li>- Comparative Viscosity</li> </ul>	<b>Special WBM Fluids</b> <ul style="list-style-type: none"> <li>- Polymer Fluids</li> <li>- Wellbore Stability</li> <li>- High-Temperature</li> <li>- Drill-In Fluids</li> </ul>
<b>Afternoon</b>	<b>Mud Testing, Lab and Field</b> <ul style="list-style-type: none"> <li>- Equipment</li> <li>- Procedures</li> </ul> <b>Water-Based Muds</b> <ul style="list-style-type: none"> <li>- Formulations</li> <li>- Base Fluids</li> <li>- Filtrate Chemistry</li> <li>- Additives</li> </ul>	<b>Annular Hydraulics</b> <ul style="list-style-type: none"> <li>- Pressure Drop</li> <li>- ECD</li> <li>- Carrying Capacity</li> <li>- Suspension/Sag</li> </ul> <b>Drilling Fluids Engineering</b> <ul style="list-style-type: none"> <li>- Lost Circulation</li> <li>- Stuck Pipe</li> <li>- Lubricity</li> </ul>	<b>Solids Analysis and Control</b> <ul style="list-style-type: none"> <li>- Solid Types</li> <li>- Solids Analysis</li> <li>- Equipment</li> </ul> <b>Review - Discussion</b>

**Subjects cited are an approximation of the coursework to be covered. Depth of material and length of time spent on each topic will be adjusted to fit the needs, experience levels, and interests of the participants.**

Westport's Practical Drilling Fluids Technology School is a 3-Day Mud School course.

### Practical Drilling Fluids Technology

This course is designed for drilling engineers and supervisors, toolpushers, drilling fluids technologists, chemical sales personnel, laboratory fluids technologists and anyone desiring a more knowledge of drilling fluid operations. It is not designed to for mud engineering basic training. In this course participants will learn the importance of drilling fluids (muds) and how they are applied on the rig.

***The course will enable participants to:***

- \* Learn the functions, properties and the API/ISO standards for drilling fluids
- \* Learn how a field mud engineer tests and reports rig data
- \* Become familiar with the relative accuracy and repeatability inherent in testing muds.
- \* Become familiar with testing equipment and procedures
- \* Learn drilling fluids formulations and additives for water-based, salt-based and non-aqueous fluids as well as for special application drilling fluids.
- \* Become familiar with drilling fluids additives – clays, polymers, weight materials and surfactants
- \* Learn how contaminants effect drilling fluids and how to take corrective action against contamination
- \* Learn drilling fluids rheology and annular hydraulics with practical hands-on excercises.
- \* Become familiar with drilling fluids engineering topics, e.g., lost circulation, stuck pipe, lubricity, and wellbore stability.
- \* Become familiar with drilled solids analysis and control.

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### Materials provided:

Training Manual, Study Guides, personal safety equipment, lab products and equipment

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**For more information, or to reserve a space, please contact:**

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Please fax or email this form to: Louis Elrod

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You also may download a form at:

<http://www.intertek-cb.com/newsitetest/services/westport/drillingfluidsservices>.

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<i>Name</i>	
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