



# **Trenchless Essentials**

Lecture Series

## **Lecture 3 Drilling Fluids**

Developed and delivered by

**Indian Society for Trenchless Technology**

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# Lecture Coverage

- **Introduction**
- **Functions of Fluids**
- **Physical and Chemical Properties of Fluids**
- **API Recommended Practices**
- **Density**
- **Rheology, Viscosity and Gel Strength Relationships**
- **Newtonian and Non-Newtonian Fluids**
- **Flow Regimes**

# Lecture Coverage II

- **Continuity of Flow**
- **Mathematical Fluid Models**
- **Gel Strengths**
- **Filtration**
- **Solids**
- **Drilling Fluid Properties and Selection**
- **Conclusion**

For complete presentation please contact IndSTT Secretariat