

ADVANCED DRILLING FLUIDS ENGINEERING

Practical Training Program

Design • Testing • Troubleshooting • Field Applications



INSTRUCTOR

Dr. Milap Goud

Drilling Fluid Expert

CMD,
Knnamp Drilling Fluids
Services Pvt. Ltd.



12
HOURS



8
LIVE SESSIONS



**ONLINE
LIVE**



**4:00 PM –
5:30 PM IST**



PRACTICAL KNOWLEDGE.
INDUSTRY IMPACT.



LEARN • UPSKILL
TRANSFORM • SUCCEED



ABOUT THE PROGRAM

Take your drilling fluids knowledge to the next level with our intensive **12-hour** instructor-led training.

This program combines theory, calculations, laboratory demonstrations, field case studies, and real drilling fluid design exercises.



WHAT YOU’LL LEARN

- 

Understand the fundamentals of drilling fluids
- 

Explore drilling fluid chemistry and properties
- 

Perform API standard mud testing
- 

Master hydraulic and engineered calculations
- 

Design effective drilling fluid programs
- 

Troubleshoot real drilling problems
- 

Apply advanced mud systems and industry best practices
- 

Participate in a live industry workshop

— • COURSE HIGHLIGHTS • —

 100% Live Interactive Sessions	 Practical Drilling Fluid Design	 Real Field Case Studies	 Mud Calculations & Engineering Worksheets
 Laboratory Demonstrations	 Wellbore Stability Analysis	 Lost Circulation & Well Control Concepts	 Certificate of Completion

COURSE STRUCTURE & SYLLABUS

This **12-hour** program is delivered through 8 live interactive sessions, combining theory, calculations, laboratory demonstrations, and real-world applications to build industry-ready expertise in drilling fluids engineering.

KEY FEATURES



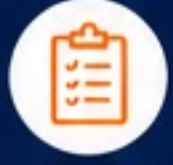
Instructor-led
Live & Interactive Sessions



Hands-on
Lab Demonstrations



Engineering Calculations
& Problem Solving



Real Field Case Studies
& Troubleshooting



Certificate
of Completion



LABORATORY FOCUS
Live demonstrations of drilling fluid testing and analysis.



ENGINEERING FOCUS
Practical calculations and real-world problem solving.



FIELD FOCUS
Case studies, troubleshooting and field-proven solutions.

8 LIVE SESSIONS – DETAILED COVERAGE



SESSION 1
Introduction to Drilling Fluids
• Functions and importance
• Types of drilling fluids and applications



SESSION 2
Drilling Fluid Chemistry & Additives
• Chemical composition and interactions
• Role of additives and their classification



SESSION 3
Rheology & Flow Behavior
• Rheological properties and their significance
• Rheometer data interpretation



SESSION 4
Filtration & Fluid Loss Control
• Filter cake formation and characteristics
• Fluid loss control techniques



SESSION 5
Drilling Fluid Testing (API Standards)
• API recommended tests
• Data analysis and interpretation



SESSION 6
Hydraulic Calculations
• Pumping hydraulics
• Pressure loss & annular velocity calculations



SESSION 7
Troubleshooting Drilling Fluid Problems
• Common drilling fluid problems
• Causes and effective solutions



SESSION 8
Specialized Fluids & Field Applications
• HPHT, SBM and completion fluids
• Real field case studies and best practices



COURSE APPROACH & METHODOLOGY

This program blends theoretical knowledge with practical application to ensure deep understanding and industry readiness.



Expert-Led Sessions

Learn from an experienced drilling fluids expert with decades of industry experience.



Hands-on Laboratory Demonstrations

Observe and analyze real mud properties and testing procedures in detail.



Engineering Calculations

Perform industry-standard calculations and solve practical problems.



Real-world Case Studies

Understand field challenges and solutions through case-based learning.



Interactive Discussions

Engage in live Q&A and discussions with the instructor.



WHO SHOULD ATTEND?

- ✓ Drilling Engineers
- ✓ Mud Engineers / Fluid Engineers
- ✓ Field Supervisors & Consultants
- ✓ Petroleum Engineering Students
- ✓ Geoscientists & Geotechnical Engineers
- ✓ Professionals seeking to enhance their knowledge in drilling fluids



WHAT YOU WILL GAIN



STRONG CONCEPTUAL FOUNDATION

Build a solid understanding of drilling fluid principles and their field impact.



PRACTICAL EXPERTISE

Gain hands-on knowledge of testing, analysis, and troubleshooting.



ENGINEERING COMPETENCE

Enhance calculation skills for real engineering applications.



INDUSTRY READINESS

Be equipped to handle field challenges with confidence and efficiency.



CERTIFICATE OF COMPLETION

Earn a certificate to showcase your expertise and boost your career profile.



LIVE & INTERACTIVE SESSIONS

Engaging and participant focused



PRACTICAL & APPLICATION ORIENTED

Learn by doing and analyzing



INDUSTRY CASE STUDIES

Real examples from field operations



EXPERT SUPPORT & Q&A

Get your queries answered live



KEY BENEFITS OF THE PROGRAM

Our practical, industry-focused training ensures you gain the knowledge, skills, and confidence to excel in drilling fluids engineering.



PRACTICAL KNOWLEDGE

Gain in-depth understanding of drilling fluids through real-world applications and case studies.



ENHANCED SKILLS

Develop expertise in mud testing, hydraulic calculations, troubleshooting, and fluid design.



INDUSTRY RELEVANCE

Stay updated with industry best practices, standards, and the latest advancements in drilling fluids.



CAREER GROWTH

Strengthen your professional profile and increase opportunities in upstream oil & gas sector.



CERTIFICATE OF COMPLETION

Earn a recognized certificate and showcase your expertise in drilling fluids engineering.



OUR APPROACH



LEARN

Understand fundamental concepts through expert-led sessions.



APPLY

Use calculations and lab simulations to apply theory in practice.



ANALYZE

Analyze data, interpret results, and make informed decisions.



SOLVE

Troubleshoot real-world challenges with practical solutions.



EXCEL

Improve performance and excel in your professional journey.

“

More than theory — this program is built around real-world practice, so you leave with skills that make an impact.

WHAT MAKES THIS PROGRAM UNIQUE?



Expert Instructors
with Field
Experience



Hands-on
Laboratory
Experience



Industry-Oriented
Curriculum



Real-World
Case Studies



Practical
Skill
Development



PRACTICAL KNOWLEDGE.
INDUSTRY IMPACT.



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VANTAGE LEARNING

Learners Today, Leaders Tomorrow

REGISTRATION & COURSE DETAILS

Join our intensive 12-hour program and gain industry-ready expertise in Drilling Fluids Engineering.



MEET YOUR INSTRUCTOR



DR. MILAP GOUD

Drilling Fluids Expert | Trainer | Consultant | Author

- ✓ Ph.D. in Petroleum Engineering with 20+ years of industry, research & training experience.
- ✓ Expertise in drilling fluids, well construction & mud engineering with hands-on industry exposure.
- ✓ Passionate about teaching & mentoring future engineers and industry professionals.



COURSE AT A GLANCE

DURATION

12 Hours



SESSIONS

8 Live Sessions



MODE

Online Live



TIME

4:00 PM – 5:30 PM IST

COURSE FEE



150 USD / ₹12,000 INR

(Inclusive of all taxes)

GET IN TOUCH



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www.edvantagelearning.com



New Delhi, India



Live Interactive
Learning



Certificate of
Completion



Post-Training
Support



Industry Expert
Guidance



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