



DRILLING COURSES SCHEDULE

BY:
TOLU ALVAND ENERGY DEVELOPMENT COMPANY

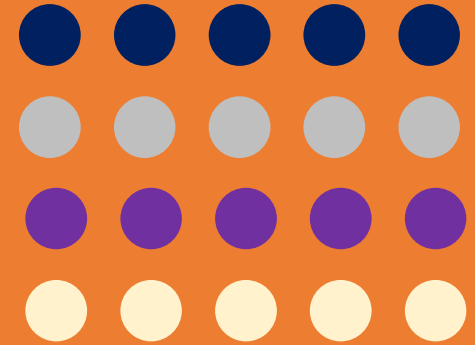




TOLU ALVAND ENERGY DEVELOPMENT COMPANY

Courses:

1. Comprehensive Course on Drilling Fluid
2. Comprehensive Course on Drilling Hydraulics
3. Comprehensive Course on IWCF Preparation
4. Comprehensive Course on Directional Drilling
5. Comprehensive Course on Wellhead and XM-Tree
6. Comprehensive Course on Advanced Casing Design
7. Comprehensive Course on Advanced Tubing Design
8. Comprehensive Course on Managed Pressure Drilling
9. Comprehensive Course on Petroleum Geomechanics
10. Comprehensive Course on Completion Design
11. Comprehensive Course on Drilling Bits and Bit Selection
12. Comprehensive Course on Landmark (COMPASS)
13. Comprehensive Course on Landmark (Casing Seat)
14. Comprehensive Course on Landmark (Stress Check)
15. Comprehensive Course on Landmark (WellPlan)
16. Comprehensive Course on Landmark (WELLCAT)
17. Comprehensive Course on Landmark (Well Cost)
18. Comprehensive Course on Landmark (OpenWells)
19. Comprehensive Course on Landmark (Casing Wear)
20. Comprehensive Course on Landmark (Profile)
21. Comprehensive Course on Landmark (Data Analyzer)
22. Comprehensive Course on Landmark (EDM Administration)
23. Comprehensive Course on JewelSuite Geomechanics



Comprehensive Course on Drilling Fluid

CONTACT US FOR MORE INFO

021-40886319
www.taedc.com
info@taedco.com

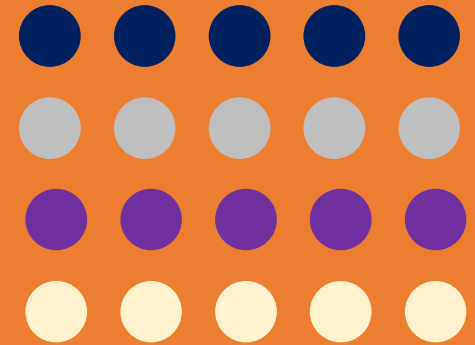




Agenda:

1. Fundamentals of Drilling Fluids
2. Formation Mechanics
3. Water-Base Drilling Fluids
4. Contamination of Water-Base Muds
5. Oil/Synthetic Drilling Fluids
6. Reservoir Application Fluids
7. Borehole Problems
8. Corrosion
9. Mechanical Solids Control
10. Horizontal & Extended Reach Drilling
11. Pressure Prediction and Control
12. Deepwater Drilling Fluids
13. Fluids Environmental Services





Comprehensive Course on Drilling Hydraulics

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021-40886319
www.taedc.com
info@taedco.com

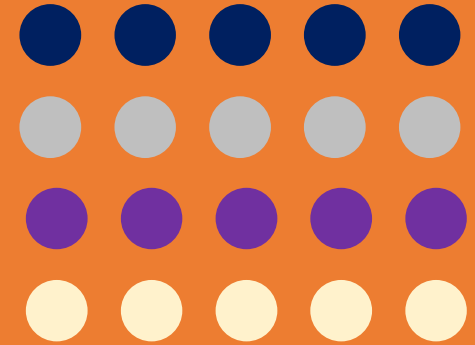




Agenda:

1. Introduction
2. Rheology
3. Drill String And Annular Hydraulics
4. Bit Hydraulics
5. Swab And Surge
6. Cuttings Transport
7. Summary
8. Hydraulics Example





Comprehensive Course on IWCF Preparation

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021-40886319
www.taedc.com
info@taedco.com

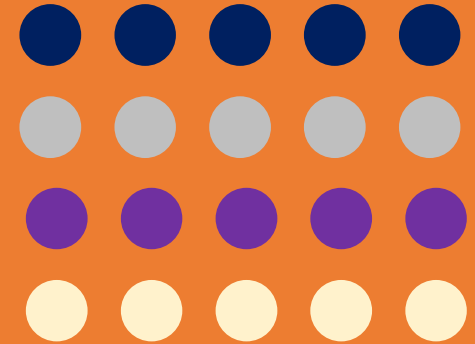




Agenda:

1. General Information
2. Pressures
3. Causes Of Kicks
4. Kick Indicators
5. Shut-in Procedures
6. Kill Methods
7. Well Control Equipment
8. Well Control From A Floating Vessel
9. Stripping
10. Gas Kick And Special Problems





Comprehensive Course on Directional Drilling

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021-40886319
www.taedc.com
info@taedco.com

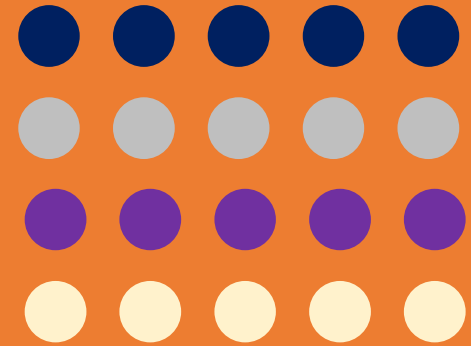




Agenda:

1. Introduction
1. Fundamentals
2. Directional Well Planning
3. Surveying
4. Drilling Tools & Deflection Methods
5. Drilling Jars
6. Downhole Motors
7. Bottom Hole Assemblies
8. Drilling Operations
9. DD At The Rigsite





Comprehensive Course on Wellhead and XM-Tree

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www.taedc.com
info@taedco.com

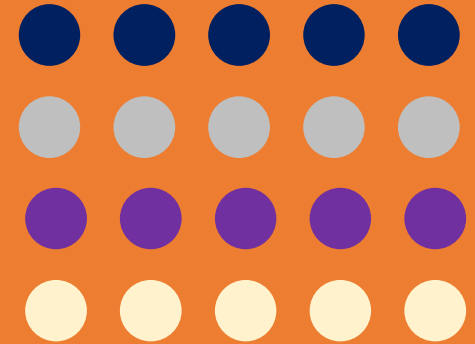




Agenda:

1. Design and performance - General requirements
2. Materials - General requirements
3. Welding - General requirements
4. Quality control
5. Equipment marking
6. Storing and shipping
7. Equipment - specific requirements
8. Repair and remanufacture





Comprehensive Course on Advanced Casing Design

CONTACT US FOR MORE INFO

021-40886319
www.taedc.com
info@taedco.com

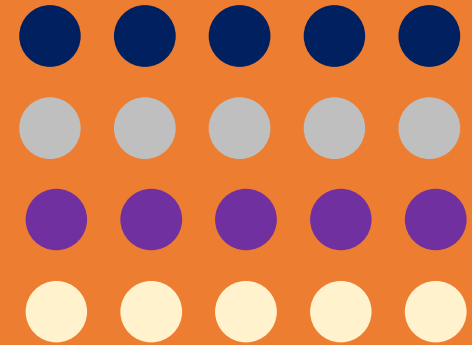




Agenda:

1. Overview
2. Casing Setting Depth and Size
3. Casing Specification
4. Casing Performance Properties
5. Casing Connections
6. Design Loads
7. Casing Buckling
8. Casing Design
9. Example Designs
10. Steam Injection Casing Design
11. Casing Design for Deep Water Wells
12. Probabilistic Casing Design Concept





Comprehensive Course on Advanced Tubing Design

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021-40886319
www.taedc.com
info@taedco.com





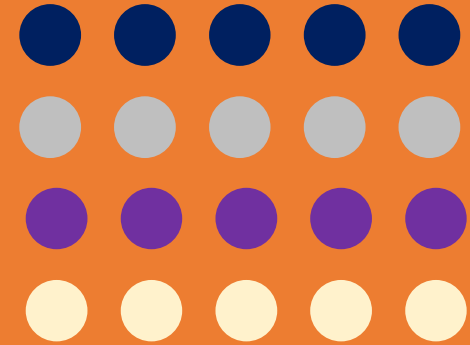
Agenda:

1. Purpose of Stress Analysis
2. Tubular Manufacture and Specifications
3. Stress, Strain and Grades
4. Axial Analysis
5. Burst Analysis
6. Collapse Analysis
7. Triaxial Analysis
8. Safety Factors and Design Factors
9. Load Cases
10. Tubing Connections
11. Packers





Comprehensive Course on Managed Pressure Drilling



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www.taedc.com
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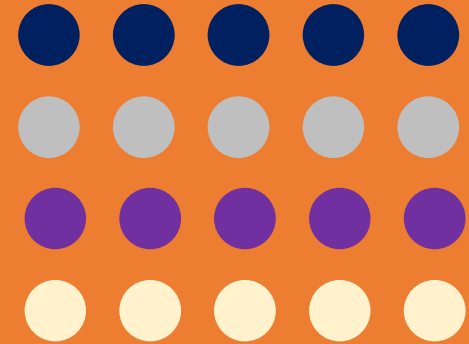




Agenda:

1. The Why and Basic Principles of Managed Well-Bore Pressure
2. Situational Problems in MPD
3. Constant Bottom-Hole Pressure with Pressure as a Primary Control
4. MPD with Flow Measurement as the Primary Control
5. Continuous Circulation System
6. A Simplified Approach to MPD
7. Mud Cap Drilling
8. Dual-Gradient Drilling
9. Equipment Common to MPD Operations
10. MPD Candidate Selection





Comprehensive Course on Petroleum Geomechanics

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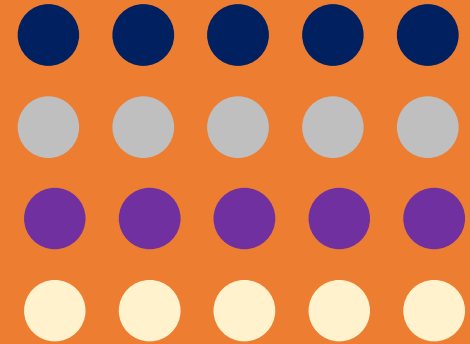




Agenda:

1. Stress and Strain
2. Rock Physical and Mechanical Properties
3. Rock Strengths and Rock Failure Criteria
4. Basic Rock Fracture Mechanics
5. In Situ Stress Regimes with Lithology-Dependent and Depletion Effects
6. In Situ Stress Estimate
7. Abnormal Pore Pressure Mechanisms
8. Pore Pressure Prediction and Monitoring
9. Fracture Gradient Prediction and Wellbore Strengthening
10. Borehole Stability
11. Geomechanics Applications in Hydraulic Fracturing
12. Sanding Prediction





Comprehensive Course on Completion Design

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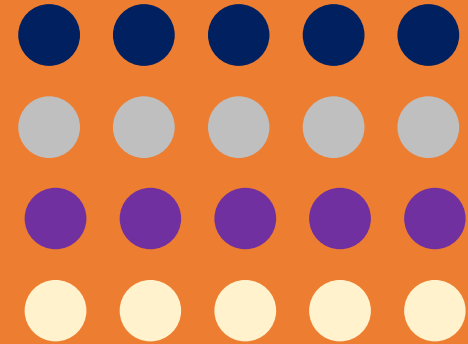




Agenda:

1. Introduction
2. Reservoir Considerations
3. Hydrocarbon Data
4. Well Testing
5. Drilling Considerations
6. Well Completion Design
7. Corrosion
8. Tubing Design
9. Sub-surface Equipment
10. Perforating
11. Artificial Lift
12. Use Of Underbalance Completion Fluids





Comprehensive Course on Drilling Bits and Bit Selection

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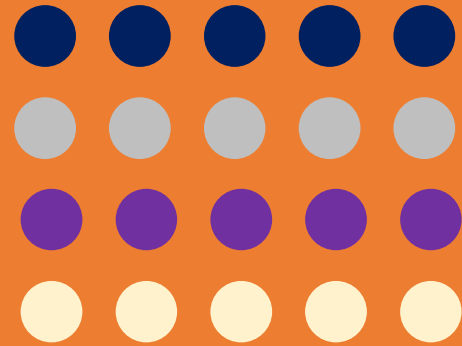




Agenda:

1. Introduction to Drilling Bits
2. Drill Bits IADC Classification
3. Drill Bits Design and Selection
4. Drill Bits Dull Evaluation
5. Hydraulics
6. Advanced Technologies on Drill Bits
7. Drilling Optimization and ROP Management





Comprehensive Course on Landmark (COMPASS)

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021-40886319
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info@taedco.com

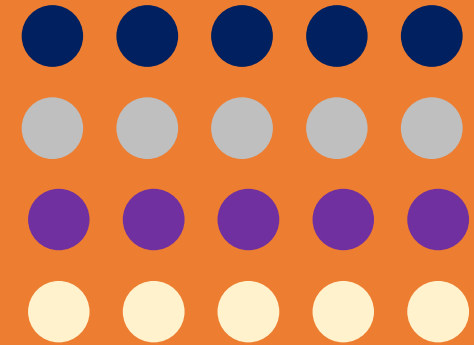




Agenda:

1. About COMPASS
2. Engineer's Desktop Drilling and Completions Applications
3. Integrated EDM™ Workflows
4. Engineer's Desktop Tools
5. Engineers Data Model (EDM) Database
6. Well Explorer
7. Navigating COMPASS
8. Using COMPASS
 1. Planning
 2. Survey
 3. Anticollision
9. Menus and Toolbars
10. Theory and Calculations
11. Exercise





Comprehensive Course on Landmark (Casing Seat)

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021-40886319
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info@taedco.com

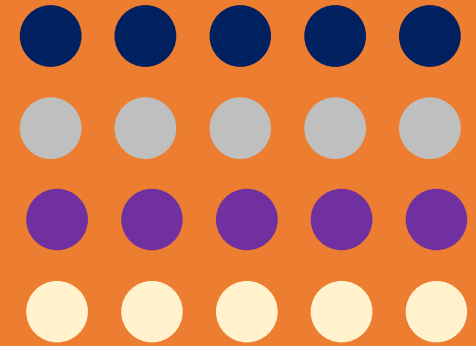




Agenda:

1. Using CasingSeat Software
2. Preliminary Design Process Considerations
3. How CasingSeat Works
4. CasingSeat Software Features
5. Menus
6. Toolbars
7. Theory and Calculations
8. Exercise





Comprehensive Course on Landmark (Stress Check)

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021-40886319
www.taedc.com
info@taedco.com

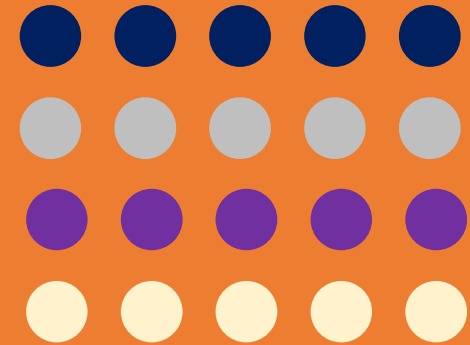




Agenda:

1. Getting Started
2. Performing Design
 1. Graphical Casing Design
 2. Manual Spreadsheet Design
 3. Automated Minimum Cost Design
3. Using StressCheck Software
4. Concepts and Tools
5. Required Data
6. Entering Data
7. Load Cases
8. Working with Inventories
9. Menu Commands
10. Toolbars
11. Theory and Calculations
12. StressCheck/WELLCAT Integration Workflow
13. StressCheck/CasingWear Integration Workflow
14. Exercise





Comprehensive Course on Landmark (WellPlan)

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021-40886319
www.taedc.com
info@taedco.com

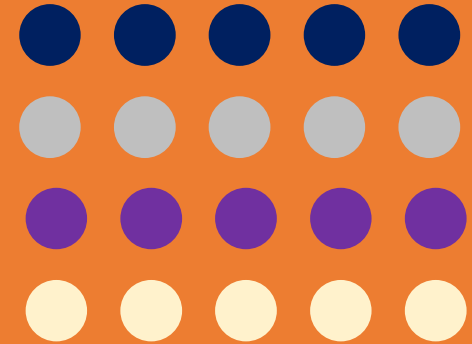




Agenda:

1. Using the Software
2. Basic Workflows
3. Visual Guides
4. Entering Data
5. Outputs
6. Analysis Methodology
7. Modules
 1. Torque and Drag Module
 2. Hydraulics Module
 3. Cementing Module
 4. Swab & Surge Module
 5. Underbalanced Hydraulics Module
 6. Well Control Module
 7. BHA Dynamics Module
 8. Stuck Pipe Module
8. Exercise





Comprehensive Course on Landmark (WELLCAT)

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021-40886319
www.taedc.com
info@taedco.com

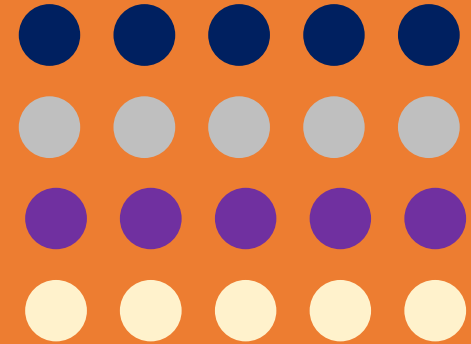




Agenda:

1. Modules Overview
 1. Casing Overview
 2. Tube Overview
 3. MultiString Overview
 4. Drill Overview
 5. Prod Overview
2. WELLCAT Procedures
3. Workflows
4. Interface Concepts and Tools
5. Menus
6. Load Cases
7. External Pressure Profiles
8. Tube Loads
9. StressCheck/WELLCAT Integration
10. CasingWear/WELLCAT Integration
11. Exercises





Comprehensive Course on Landmark (Well Cost)

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021-40886319
www.taedc.com
info@taedco.com

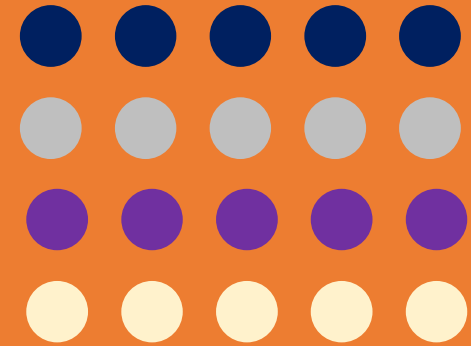




Agenda:

1. Well Cost Overview
2. Navigating Well Cost
3. Data Entry Types
4. Workflows
 1. Monte Carlo
 2. Variation Input
 3. Time Calculation
 4. Cost Calculation
5. Well Cost Wizard Toolbar
6. Concepts and Tools
7. Well Cost Menus
8. Well Cost Toolbar
9. Wall Plot Composer





Comprehensive Course on Landmark (OpenWells)

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021-40886319
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info@taedco.com

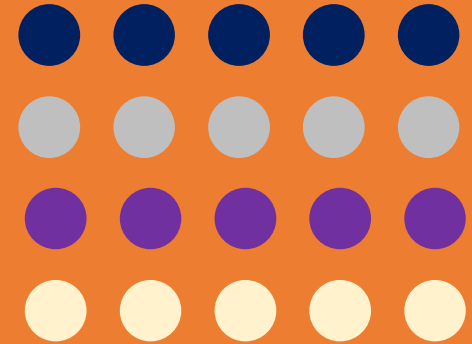




Agenda:

1. New Features
2. Tutorials
3. Wizards
4. Features
5. Classic Reports
6. Well Explorer
7. Transferring Data
8. Menus and Toolbars
9. The Interactive Well Site





Comprehensive Course on Landmark (Casing Wear)

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021-40886319
www.taedc.com
info@taedco.com

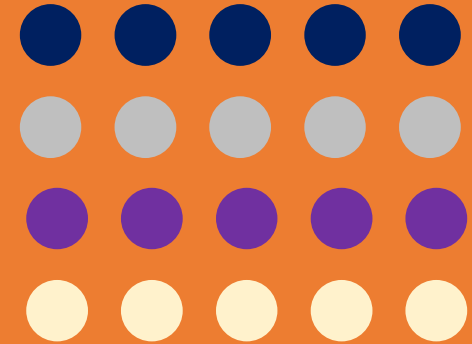




Agenda:

1. Casing Wear Module
2. Best Practices
3. Tips for Using CasingWear
4. Basic Workflow Steps
5. Main Window Navigation
6. Entering Data
 1. Datum
 2. Fluids Editor
 3. Hole Section Editor
 4. Operations Editor
 5. String Editor
 6. Wellpath
 7. Wear Log Editor
 8. Analysis Settings
 9. Schematic Tab
 10. Sensitivity Tab
7. Outputs





Comprehensive Course on Landmark (Profile)

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021-40886319
www.taedc.com
info@taedco.com





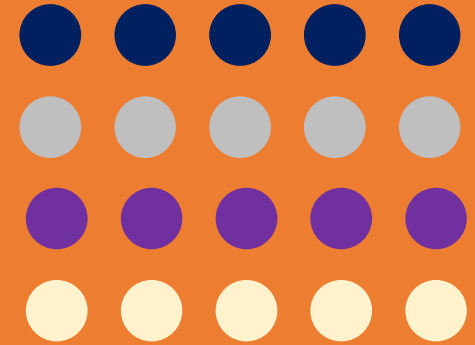
Agenda:

1. Navigating PROFILE
2. Data Entry Types
3. Symbol Manager
4. Symbol Mappings
5. Wall Plot Composer
6. Well Designer
7. Data Approval
8. Menus and Toolbars





Comprehensive Course on Landmark (Data Analyzer)



CONTACT US FOR MORE INFO

021-40886319
www.taedc.com
info@taedco.com

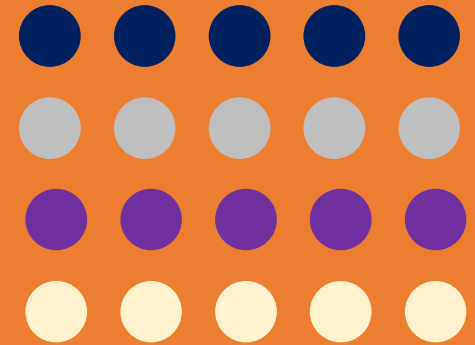




Agenda:

1. Introduction to Data Analyzer
2. Navigating Data Analyzer
3. Navigating Data Analyzer
4. Menus and Toolbars
5. Queries
 1. Creating a Query
 2. Adding Basic Conditions
 3. Query Samples
 4. KM Query
 5. Sample Queries
6. Advanced Features
7. Templates





Comprehensive Course on Landmark (EDM Administration)

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021-40886319
www.taedc.com
info@taedco.com

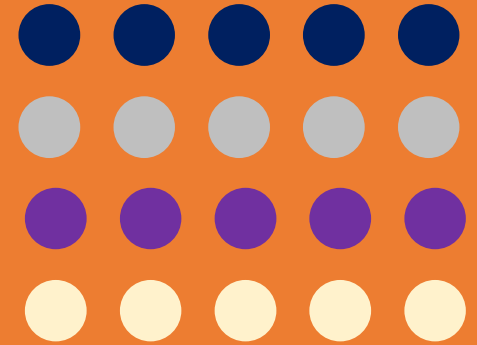




Agenda:

1. What is EDM™ Administration Utility?
2. New Features
3. EDM™ Administration Utility Explorer
4. Navigating EDM™ Administration Utility
5. Using the EDM Administration Utility
 1. OpenWells
 2. OpenWire
 3. Economics
 4. Output Reports
 5. EDM Security
 6. System Settings
 7. Table Extension
 8. Unit Management
 9. Field Mapping
 10. Historian Service
 11. Simultaneous Activity Monitor
 12. System Lookups
6. Features
7. Menus and Toolbars
8. The EDM Database





Comprehensive Course on JewelSuite Geomechanics

CONTACT US FOR MORE INFO

021-40886319
www.taedc.com
info@taedco.com





Agenda:

1. About JewelSuite™ GeoMechanics
2. Your interface to JewelSuite™ GeoMechanics
3. Setting up and the Home strip
4. Importing, creating and exporting data
5. Correlating wells
6. 1D geomechanics and predicting pore pressure
7. Advanced Stress
8. Analyzing wellbore stability
9. 3D modeling
10. Fault and fracture stability in JewelSuite™ GeoMechanics





Learning is not attained
by chance.



No.30, 5th floor, Aria building, #124, Sanaei Avenue, Tehran
P.O. Box: 1586636937
021-40886319