Overview

	Total Gas
25	138M

Production of Gas per Operator		
Operator	Gas Production	Top 3
Exco	18.2M	★
Encana	16.9M	★
Chesapeake	16.5M	★
BHP	14.6M	
Shell	12.3M	
Exxonmobil	9.0M	
Ep Energy	8.7M	
EOG	7.8M	

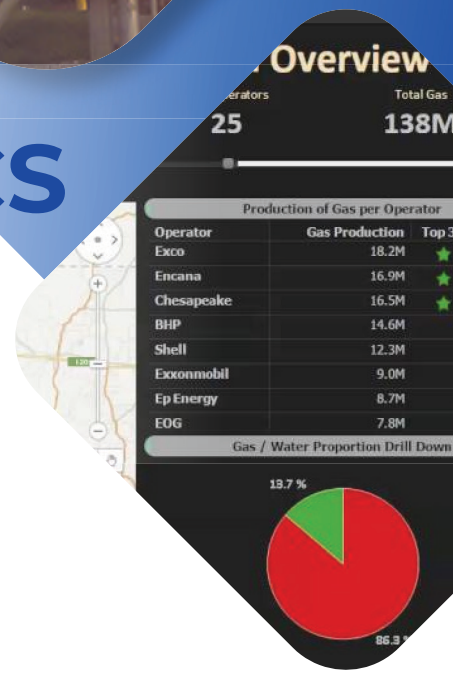Gas / Water Proportion Drill Down

13.7 %

86.3

SPOTFIRE ANALYTICS
for Oil & Gas

Course Objectives:

This course equips students and professionals with essential skills in TIBCO Spotfire analytics for the oil and gas industry. Participants will learn data preparation, advanced field data analysis, and visualization, including KPI analysis and real-time dashboards. The course covers production trend forecasting with machine learning, time series analysis, and drilling optimization, providing practical tools for real-world challenges in the sector.

Learning Objectives:

- Develop data preparation and wrangling skills in TIBCO Spotfire.

- Master data analysis and visualization techniques for field data.

- Gain proficiency in production performance analysis and dashboard creation.

- Learn production trend analysis and forecasting with machine learning.

- Understand drilling optimization using exploratory data analysis and machine learning.

Prerequisites:

Basic understanding of data concepts. A strong interest in data analysis and visualization. Computer literacy and familiarity with data analysis software (basic proficiency is a plus).

These prerequisites are designed to ensure that new learners can effectively engage with the course content and build a solid foundation in TIBCO Spotfire analytics for the oil and gas industry.

Duration: 4 Weeks

Topics to be covered:

1. Data Preparation and Wrangling in Spotfire

- Introduction to Spotfire analytics
- Data Connection and Loading in Spotfire
- Data Cleaning
- Data Transformation
- Handling missing data and outliers

2. Field Data Analysis, Visualisation and Interpretation in Spotfire

- Creating plots, charts and tables in Spotfire
- Interpreting field data visualizations and plots in Spotfire
- Multivariate Data Analysis
- Statistical Analysis of field data
- Line and curve fitting in Spotfire

3. Production Performance Analysis with Spotfire

- Geospatial analysis of field data
- Evaluating performance by well and by field
- Production performance KPI Analysis
- Rate Allocation
- Root cause analysis
- Building interactive production dash boards for real time production monitoring

4. Production Trend Analysis and Forecasting with Machine Learning in Spotfire

- Time Series Analysis of Production data
- Production Anomaly detection
- Production forecasting with Machine learning
- Predicting and Preventing pump failure

5. Drilling Optimization with Machine Learning in Spotfire

- Exploratory Data Analysis for Drilling variables
- Feature engineering
- Predicting Rate of Penetration With Machine Learning Algorithms
- Evaluating model performance

6. Reservoir Performance Monitoring with Spotfire

- Real time reservoir monitoring and surveillance
- PVT data QC
- History matching quantitative assessment
- Reservoir diagnostic plots

FAQs:

1. When is the course commencing?

Expected date – Coming Soon

2. What are the course fees?

Fees – 150 USD (Limited Offer for first 10 Participants)

3. What will be the medium of language for the training?

English

4. Will a certificate be provided?

Yes, certificate will be provided after completion of training

5. What if I missed any live sessions?

We will be providing the recordings of the whole live sessions of the training along with materials for lifelong.

6. Why we should join?

• Joining TIBCO Spotfire training presents a unique opportunity to acquire in-demand skills that are highly sought after in the job market.
• It opens doors to a wide range of career opportunities, from data analysis and visualization to business intelligence and data science.
• As you master Spotfire, you'll not only gain proficiency in the tool but also sharpen your ability to make data-driven decisions, a skill that's invaluable in various industries.
• With Spotfire expertise, you'll enjoy a competitive edge in today's data-centric world, making you a valuable asset to potential employers and broadening your career horizons

Contact Us

📞 *+91 86583 24008*   🌐 *https://edvantage.org.in*

✉ *info@edvantage.org.in*