



Society of Petroleum Engineers

**SPE Training Course in conjunction with
SPE Workshop: Data Science and Analytics for E&P Projects**

Data Analytics for Drilling Optimisation

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TENTATIVE DAILY ACTIVITIES AGENDA

Day 1	Topic	Venue
0830 – 0900	Registration and Welcome Coffee and Tea	To be confirmed
0900 – 1030	<p>Basic Concepts and Data Management Technologies This is an introductory session in which basic concepts related to 'Data' will be introduced to the course participants.</p> <ul style="list-style-type: none"> • Basic Concepts about Data Management and Business Intelligence • Data Acquisition, Storage and Retrieval • Data Quality Control and Analysis 	To be confirmed
1030 – 1045	Coffee Break & Discussion	To be confirmed
1045 – 1200	<p>Using Drilling Data This session starts with a brief explanation about the main concepts in statistics. Then, it will be presented all steps to perform drilling data analysis.</p> <ul style="list-style-type: none"> • Statistics: Distribution (Normal & Log Normal), P-values and Box Plot, and Monte Carlo Simulation • Drilling data acquisition • Planning with offset data 	To be confirmed
1200 – 1330	Networking Lunch	To be confirmed
1330 – 1515	<p>Drilling Data Analytics This session introduces drilling data analytics.</p> <ul style="list-style-type: none"> • Time and Trouble Analysis • Learning Curve Concept • Bit Performance • Advanced Drilling Analysis: Planning, Follow up, and Technical Limit 	To be confirmed
1515 – 1530	Coffee Break & Discussion	To be confirmed
1530 – 1700	<p>Case Studies and Practical Exercises In this session presents some real business cases in order to demonstrate how drilling operations can be improved using the concepts explained previously in the course. In addition, the course participants will be able to perform some exercises related to Drilling Data Analytics.</p> <ul style="list-style-type: none"> • Real Case Studies • Implementing Data Analytics in the company • Drilling Data Analytics: Practical Exercises 	To be confirmed