

Drilling Dynamics E-Learning

The Drilling Dynamics E-Learning module provides introductory coverage of the drilling mechanics domain and an overview of the range of topics required for MWD engineers to broaden their knowledge of the subject. The course shows how the interpretation of the measurements from downhole tools can help identify problematic conditions and their potential impact on drilling performance. The module is intended for those already familiar with general drilling practices, and assumes some pre-existing knowledge of rigsite operations and the general progress of the well during the well construction phase.

Features and Benefits

Comprehensive

The course provides a detailed overview of all The course provides a detailed overview of all elements of the drilling mechanics analysis process as it applies to downhole directional drilling tools and related systems. Topics covered include:

- Effects of pressure
- Effects of shock and vibration
- BHA damage
- Wellbore stability
- Mechanical measurements
- Detecting shock and vibration
- Mitigating shock and vibration
- Mechanical Specific Energy [MSE]

Integrated

The course, although beneficial as a stand-alone unit, forms an integral module within all of the Black Diamond MWD and LWD Training Programs. These programs deliver a defined progression of e-learning, traditional teaching and on-the-job training offerings designed to support the continued development of those involved with the operation, maintenance or technical support of Black Diamond systems.

Flexible Delivery

The course is delivered on-line and is divided into 8 sections, each of which should take no longer than an hour to complete. This allows the material to be completed at a place, time and pace to suit all. Understanding is assured by way of on-line tests that highlight areas which require review. Material can be reviewed as often as is required to ensure total understanding.

Courses are administered through the Black Diamond Technical Support Portal.

Target Audience

Intended for MWD engineers and other field service personnel to provide a more in-depth discussion of drilling mechanics than is usually covered in standard MWD training material, this course is also intended for complimentary job functions in related fields where additional insight into drilling mechanics can aide with understanding, support of, and ultimately the success of directional drilling operations.

Cost Effective

As a stand-alone training module the e-learning is extremely competitive when compared to attendance at traditional theoretical seminars.

Black Diamond MWD & LWD Training Programs

Black Diamond MWD & LWD Training Programs				
Introductory	Introduction to MWD E-Learning		Introduction to Drilling E-Learning	
Core	Tensor Elite MWD	Tensor Elite MWD E-Learning	Operations Practical (3 Days)	Rigsite OJT
			Maintenance Practical (3 Days)	Workshop OJT
	Tensor Gamma	Gamma E-Learning	Operations Practical (2 Days)	Rigsite OJT
	Centerfire LWD		Resistivity E-Learning	Operations Practical (3 Days)
		Centerfire LWD E-Learning	Maintenance Practical (3 Days)	Workshop OJT
Advanced	Failure Analysis E-Learning		Directional Drilling & Surveying E-Learning	
	Drilling Dynamics E-Learning		Advanced Magnetic Surveying E-Learning	