

	<p><b>Adresse : Cité 11 Décembre 1960 N° 120</b>  <b>2ème Etage Baba Hassen- ALGER</b>  <b>N RC : 16-01 - 20A1551304</b>  <b>NIF : 19517310150012900000</b>  <b>Telephone : 0782 83 79 88</b>  <b>Email: <a href="mailto:kitalgeria@kit-egy.com">kitalgeria@kit-egy.com</a></b>  <b>Site web : <a href="http://www.kit-egy.com">www.kit-egy.com</a></b></p>	<p><b>BATEN RABAH</b>  <b>Consultation, Training,</b>  <b>Contracting &amp; Evaluation</b>  <b>Training Programme</b></p>
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**Course Title : DS1 Rotary Inspection and Maintenance**

**Course Description:**

This course provides a comprehensive understanding of the DS1 standard for the inspection, maintenance, and evaluation of drill stem components used in rotary drilling operations. Designed for inspection professionals, drilling engineers, and maintenance personnel, this course covers the critical aspects of DS1 Rotary Inspection, ensuring that participants gain the necessary knowledge and skills to inspect and assess drill stem components effectively.

Participants will explore the DS1 standards in-depth, including the classification of drill stem components, visual and dimensional inspection techniques, and the application of nondestructive testing (NDT) methods. The course will also cover detailed inspection procedures for drill pipes, heavyweight drill pipes, and drill collars, emphasizing the identification of wear, corrosion, mechanical damage, and other critical factors that affect the integrity and safety of these components.

In addition to inspection techniques, the course will delve into maintenance and repair strategies, including best practices for preventative maintenance and common repair techniques. Participants will learn how to document inspection results accurately and produce clear, actionable reports that meet DS1 requirements.

The course includes practical workshops, where participants will have the opportunity to apply their learning through hands-on inspection exercises and case studies. The final assessment, consisting of both written and practical exams, will evaluate participants' understanding and proficiency in DS1 Rotary Inspection.

Upon successful completion, participants will receive a certification that validates their competence in DS1 Rotary Inspection, equipping them with the skills and knowledge to ensure the safety and reliability of drill stem components in rotary drilling operations.

**Module 1: Introduction to DS1 Standards**

Overview of DS1 Standards:

Introduction to the DS1 standard and its significance in the oil and gas industry.

Importance of adhering to DS1 guidelines for safety and efficiency.

Classification of Drill Stem Components:

Types of drill stem components covered under DS1 (e.g., drill pipes, heavyweight drill pipes, drill collars).

Material and design considerations.

**Module 2: Rotary Inspection Basics**

Visual Inspection Techniques:

Identifying wear, corrosion, and mechanical damage.

Importance of cleanliness and surface preparation.

Dimensional Inspection:

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Measurement techniques and tools (e.g., micrometers, calipers).

Tolerances and allowable limits according to DS1.

Nondestructive Testing (NDT) Methods:

Introduction to NDT methods (e.g., ultrasonic testing, magnetic particle inspection, dye penetrant testing).

Application and interpretation of NDT results in DS1 inspections.

### **Module 3:** Detailed Inspection Procedures

Inspection of Drill Pipes:

Key areas for inspection: tool joints, pipe body, connections.

Acceptance criteria for drill pipes under DS1.

Inspection of Heavyweight Drill Pipes:

Inspection focus: center wear pads, upset regions, and connections.

Evaluating fatigue and mechanical damage.

Inspection of Drill Collars:

Inspection focus: slip and tong marks, bending, and surface wear.

Criteria for reusability and rejection.

### **Module 4:** Maintenance and Repair

Common Repair Techniques:

Welding, hard banding, and straightening methods.

When and how to repair vs. replace components.

Preventative Maintenance Strategies:

Best practices for extending the life of drill stem components.

Record-keeping and monitoring techniques.

### **Module 5:** Documentation and Reporting

Inspection Documentation:

Recording inspection results according to DS1 requirements.

Importance of traceability and documentation for compliance.

Reporting Findings:

How to write clear and concise inspection reports.

Communicating findings and recommendations to stakeholders.

### **Module 6:** Practical Workshop

Hands-on Inspection Practice:

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Real-world scenarios for participants to inspect drill stem components.  
Use of inspection tools and techniques.

Case Studies and Problem Solving:

Analysis of past inspection cases.  
Group discussions on inspection challenges and solutions.

#### **Module 7:** Final Assessment

Written Examination:

Assessing participants' understanding of DS1 inspection standards.  
Practical Test:

Evaluating the ability to perform inspections and report findings effectively.  
Conclusion and Certification  
Course Review and Q&A:

Summary of key points from the course.  
Addressing any questions from participants.  
Certification:

Issuance of completion certificates to participants who pass the assessment.