

**INTRODUCTION**

**Rig inspections, also known as rig audits, are conducted on drilling assets for both drilling contractors and drilling operators to assess the condition of an asset. Rig inspections are conducted to industry standards, such as API, as well as to specific client requirements. Rig commissioning involves ensuring that rig machinery and equipment are functioning properly and in accordance with the client’s requirements.**

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| **Course Description  Drilling's Rig Inspection Workshop (RIW) teaches the inspection and maintenance procedures required to ensure equipment integrity on land rigs. Candidates learn to implement the relevant standards and understand industry requirements so that they can verify the condition of a rig's equipment and improve safety, thus reducing the number of accidents and protecting the asset**  **Who should attend?**  **This course is specifically designed for, but not limited to employees in the oil and gas industry who holds the following Roles - Drilling Supervisors**  **- Drilling Engineers**  **- Drilling Managers**  **- Hse Managers**  **- Rig Managers**  **- Maintenance Supervisors**  **- Toolpushers**  **- Drillers**  **- Mechanics**  **- Electricians** | **Course Objective**  **Upon completion of this course**  **Independently carry out a basic (visual) rig inspection**  **Describe the main inspection criteria for major equipment**  **Identify major items that have an impact on the safety and operation of a rig**  **Recognize the indicators of the overall condition of a drilling rig**  **List the relevant standards (such as API) and their implications for drilling equipment**  **Understand the basics of EX equipment installed in hazardous areas**  **Evaluate basic maintenance and inspection procedures on the rig to identify compliance with good working practices and industry standards Understand the basics of well control equipment operation**  **Additionally we provide the candidates with the following:**  **Full material about rig inspection   A checklist format for major equipment to assist with correct**  **maintenance and inspections.**  ** Multiple examples of good and bad practices, including photos.**  ** A presentation of improvements and new designs of drilling**  **equipment.**  ** Further explanation of the workshop manual.** | **Course Outlines :**  **Day 1**  **Drilling equipment**  **1 Draw works introduction**  **2 Rotary table**  **3 Top drive introduction**  **4 Top drive**  **5 Swivel**  **6 Crown and travelling block introduction**  **7 Crown and travelling block**  **8 Driller's console**  **9 Derrick**  **10 Air winches introduction**  **11 Air winches**  **12 Lifting and handling equipment**  **Day 2**  **Mud-processing equipment:**  **1 Mud pumps**  **2 Mud systems**  **Engine room and power plant:**  **1 Diesel engines**  **2 Emergency generators**  **3 Air compressors**  **4 Cranes**  **Day 3**  **Electrical equipment:**  **1 Introduction to the eddy current brake**  **2 Eddy current brake**  **3 A basic introduction to hazardous-area equipment**  **4 Electrical safety equipment** | **Safety equipment:**  **1 Introduction to the eddy current brake**  **2 Eddy current brake**  **3 A basic introduction to hazardous-area equipment**  **4 Electrical safety equipment**  **Day 4**  **Well control equipment: 1 Introduction to ram-type preventers**  **2 Ram preventers**  **3 Introduction to annular preventers**  **4 Annular preventers**  **5 Gate valves**  **6 Introduction to the choke and kill manifold**  **7 Choke and kill manifold**  **8 Introduction to the BOP HPU**  **9 BOP HPU**  **Day 5**  **Appendices:**  **1. Drive Chains Inspections**  **2. API RP 8B Explanations and Category of Inspections**  **3. Standard Reporting**  **4. General discussion about API & provided materials  Contact**  **KIT For Engineering Innovation**  **Egypt Cairo Algeria Djelfa**  **01012000760 +213782837988** [**info@kitegy.com**](mailto:info@kitegy.com)[**kitalgeria@kitegy.com**](mailto:kitalgeria@kitegy.com)  **Website:** [**www.kitegy.com**](http://www.kitegy.com)  **Facebook : @kitegy** |