



Training Course :

Electrical Inspection & Testing Workshop

Training Course For One Week In

UAE , Dubai , Cityseason Hotel

Which Be Held As Under Details :



Abar Solutions Petroleum Consultancy Invite Your Employee To Participate With Us In Special Training Course As Under Details :

Course Name		Electrical Inspection & Testing Workshop			
Code	Period	Language	Start	End	Location
EL 01	5 Days	Bilingual (Arabic & English)	18/09/2016	22/09/2016	UAE , Dubai , Cityseason Suites Hotel
			16/10/2016	20/09/2016	
			13/11/2016	17/11/2016	
			18/12/2016	22/12/2016	
			15/01/2017	19/01/2017	
			19/02/2017	23/02/2017	
			19/03/2017	23/03/2017	
			16/04/2017	20/04/2017	
			14/05/2017	18/05/2017	
			18/06/2017	22/06/2017	
			16/07/2017	20/07/2017	
			20/08/2017	24/08/2017	

**** The Fees Includes : Lecturer , Training Material , Training Room With One Coffee Break Daily , Certificate Of Attendance In Last Day Training Course ****

Course Description

⇒ To successfully inspect and test electrical equipment , Electrical personnel must first fully understand the technology of the equipment , After the successful start-up and subsequent continued operation , electrical equipment requires periodic inspection and testing , This will ensure the electrical equipment operates correctly so that production is maximized in a safe , cost effective and efficient manner , Delegates are encouraged to raise queries both during and at any time after attending the workshop and are also asked to bring with them any technical issues that they may have

Course Objective

- ⇒ Participants attending this programme will :
 - Return to their respective organizations equipped with new or refreshed skills to ensure that electrical equipment is inspected , tested and operated in a fashion that ensures reduced costs , On successful completion of this workshop , participants will have :

- A better understanding of inspection and testing methods
- A better understanding of troubleshooting procedures
- An improved capability in the use of test equipment
- A refreshed outlook on reading electrical drawings
- A refreshed awareness of electrical safety concerns

Who Should Attend ?

⇒ This workshop is intended for Electrical Engineers , Electrical Supervisors and Electrical Technicians engaged in the inspection and testing of Electrical Equipment , Because the methods and examples are generic , personnel from all industries will benefit , Participants require a good understanding of electricity and magnetism and possess some relevant experience

Course Content & Outlines

⇒ DAY 1 - The Technology of Electrical Equipment

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|--|--|
| – Transformers | - Power supplies (UPS) |
| – Batteries | - Generators |
| – Switchgear | - Motor control centers (MCC) |
| – Disconnect switches | - Neutral ground resistors (NGR) |
| – Variable frequency/speed drives (VFD/VSD) | - Programmable logic controllers (PLC) |
| – Power monitoring | - Control relays/timers/switches |
| – Motor/feeder protective devices | - Motors (AC & DC) |
| – Miscellaneous equipment – heaters , solenoid valves and electric valve actuators | |

⇒ DAY 2 - The Use of Test Equipment

- | | |
|-----------------------------------|-------------------|
| – Digital voltmeter (DVM) | - Oscilloscopes |
| – Megger | - Frequency meter |
| – Temperature probes / pyrometers | - Ammeters |
| – Power meters | - Load banks |

- Digital hydrometers
- Cable fault locators

⇒ DAY 3 - Inspection and Testing of Electrical Equipment

- Methods
- Terminology
- Principles
- Special techniques
- Troubleshooting of Electrical Equipment
- Methods
- Terminology
- Principles
- Special techniques
- Case studies/examples
- Single line drawings
- Group exercises

⇒ DAY 4 - The Necessity for Inspection and Testing

- Common mode failures
- Phase imbalance
- Contact pitting / arcing
- Electronic component failure
- Fusing
- Motor windings / bearings / brushes
- Ballasts
- Excitation circuits
- Battery cells
- Inverters/rectifiers
- Bushings
- Switches
- Control circuits
- Ground faults
- Open session : Case Studies , Questions and Answers

⇒ DAY 5 - The Interpretation and Use of Drawings and Safety

- Single-line electrical drawings
- Control schematics
- Wiring lists
- P & ID's
- Logic and standard symbols
- The Development of a Job Plan
- Identification of the troubleshooting step-by-step sequence & Procedure preparation
- Documentation
- Safety considerations and training
- A review of Safety Requirements
- Area classifications
- Extended Workshop