



External Training Course

NextGen Drilling Rig Inspection Supervision

From 13 Oct. To 17 Oct. 2025
From 17 Nov. To 21 Nov. 2025
From 15 Dec. To 19 Dec. 2025

**Hampton by Hilton Guangzhou Tianhe
Sports Center, Guangzhou, China**

Mr. Ghanem F. Al-Otaibi

GM & Institute Owner

Tel.: 00965 22248901

Fax: 00965 22204999

Mob.: 00965 65548855

Mob.: 00965 97273712

Email: admin@agi-kw.com

Email: agi-kw@hotmail.com

W/SITE: WWW.AGI-KW.COM

External Training Course:

**NextGen Drilling Rig Inspection
Supervision**

From 13 Oct. To 17 Oct. 2025

From 17 Nov. To 21 Nov. 2025

From 15 Dec. To 19 Dec. 2025

Fees: 1950 KD

Fees: 1950 KD

Fees: 1950 KD

Course Overview:

This course provides participants with advanced knowledge and practical skills required to supervise, inspect, and maintain drilling rigs efficiently. It combines theoretical principles, international standards (API, ISO), and hands-on inspection practices to ensure operational safety, compliance, and risk mitigation. Participants will develop the ability to identify hazards, evaluate rig performance, and lead inspection teams effectively.

Course Objectives:

By the end of this course, participants will be able to:

- Understand the full scope of drilling rig operations and inspection protocols.
- Apply API and ISO standards for rig inspection and supervision.
- Identify mechanical, electrical, and structural risks on drilling rigs.
- Conduct systematic rig inspections and generate detailed reports.
- Implement corrective actions and preventive measures efficiently.
- Enhance communication and leadership skills in supervising inspection teams.
- Integrate modern technology and tools for inspection and risk management.

Training Methodology:

Interactive lectures and presentations.

Case studies and real-life drilling rig scenarios.

Group discussions and problem-solving exercises.

Hands-on inspections on rig mockups (videos).

Assessment through quizzes, practical exercises, and final evaluation.

Organizational Impact:

The organization operates more efficiently.

Risks and hazards are reduced.

Compliance with regulations and standards is ensured.

Costs for maintenance and repairs are minimized.

A strong safety culture is promoted.

Decisions are supported by accurate inspection data.

Personal Impact:

Participants gain advanced technical skills.

Leadership and team supervision abilities are strengthened.

Problem-solving and critical thinking improve.

Professional credibility and career opportunities increase.

Participants make confident and informed decisions.

Ability to handle complex and high-pressure situations is enhanced.

Course Content & Outline:

Day 1: Introduction to Drilling Rig Inspection & Supervision

- Overview of drilling rig types and components.
- Role and responsibilities of a Drilling Rig Supervisor.
- Importance of inspection in operational safety and efficiency.
- Regulatory frameworks and international standards (API, ISO).
- Understanding rig operation workflow and processes.
- Key performance indicators (KPIs) for rig inspection.
- Communication and reporting expectations.

Day 2: Mechanical and Structural Inspection

- Drill floor, derrick, and hoisting system inspection.
- Rotary equipment and machinery assessment.
- Structural integrity checks and preventive maintenance.
- Common mechanical failures and risk identification.
- Lubrication, wear, and corrosion monitoring.
- Use of inspection tools and gauges.
- Case study: Mechanical failure analysis and lessons learned.

Day 3: Electrical, Control Systems & Safety Inspection

- Electrical systems overview and inspection protocols.
- Control systems and automation monitoring.
- Safety systems and emergency response equipment checks.
- Hazard identification and risk assessment techniques.
- Inspection of grounding, insulation, and wiring integrity.
- Fire suppression and gas detection systems.
- Hands-on exercise: Conducting a complete electrical inspection.

Day 4: Supervisory Skills & Risk Management

- Planning and scheduling rig inspections.
- Team management and supervision techniques.
- Risk evaluation, mitigation, and reporting.
- Incident investigation and root cause analysis (RCA).
- Decision-making under operational pressure.
- Coordination between departments (HSE, Operations, Maintenance).
- Workshop: Real-life rig inspection and problem-solving (videos).

Day 5: Reporting, Compliance & Continuous Improvement

- Inspection report writing and documentation best practices.
- Compliance auditing and verification of corrective actions.
- Integrating digital tools for inspections and monitoring.
- Continuous improvement strategies for rig operations.
- Performance review and follow-up inspection planning.
- Lessons learned sharing and knowledge transfer.
- Final assessment and practical evaluation.



Course Agenda:

(1st Day) Agenda

8.30	9.00	Opening Remarks (30 Min.).
9.00	11.30	<u>Discuss Major Points of Course:</u> <ul style="list-style-type: none"> • Rig Systems and Supervisory Responsibilities. • Rig Inspection Techniques. • Rig Sizing Principles. • Rig Selection & Strategic Decision-Making. • Supervisory Excellence & Advanced Applications.
11.30	12.00	Coffee Break
12.00	14.00	<u>Rig Systems and Supervisory Responsibilities:</u> <ul style="list-style-type: none"> • Overview of rig types: drilling, lifting, and specialized rigs. • Rig components, structure, and operational principles. • Understanding performance metrics and key indicators (KPIs). • Supervisory roles, responsibilities, and accountability. • Documentation, reporting, and interpreting technical manuals. • Safety protocols and compliance regulations.
14.00	14.30	Questions and Discussion
14.30		Buffet Lunch

(2nd Day) Agenda

9.00	11.30	<u>Rig Inspection Techniques:</u> <ul style="list-style-type: none"> • Comprehensive inspection checklists and procedures. • Detecting wear, fatigue, and hidden defects. • Safety hazards and risk identification.
11.30	12.00	Coffee Break
12.00	14.00	<u>Rig Inspection Techniques:</u> <ul style="list-style-type: none"> • Regulatory compliance, standards, and certifications. • Practical inspection exercises focusing on real-life conditions. • Accurate documentation and reporting of inspection findings.
14.00	14.30	Questions and Discussion
14.30		Buffet Lunch

(3rd Day) Agenda

9.00	11.30	<u>Rig Sizing Principles:</u> <ul style="list-style-type: none"> • Load calculations and capacity assessment methods. • Evaluating site-specific constraints: terrain, environmental factors, and operational loads. • Equipment compatibility and sizing standards.
11.30	12.00	Coffee Break
12.00	14.00	<u>Rig Sizing Principles:</u> <ul style="list-style-type: none"> • Interpreting rig load charts and operational limits. • Hands-on exercises calculating rig sizing for different operational scenarios. • Planning for safety margins and operational reliability.
14.00	14.30	Questions and Discussion
14.30		Buffet Lunch

(4th Day) Agenda

9.00	11.30	<u>Day 4: Rig Selection & Strategic Decision-Making:</u> <ul style="list-style-type: none"> • Criteria for rig selection based on project requirements. • Risk assessment and mitigation strategies. • Cost-benefit and operational efficiency analysis.
11.30	12.00	Coffee Break
12.00	14.00	<u>Day 4: Rig Selection & Strategic Decision-Making:</u> <ul style="list-style-type: none"> • Decision-making processes for optimal rig deployment. • Integrating environmental, safety, and regulatory considerations. • Coordinating with teams and stakeholders for effective rig selection.
14.00	14.30	Questions and Discussion
14.30		Buffet Lunch

(5th Day) Agenda

9.00	11.30	<u>Supervisory Excellence & Advanced Applications:</u> <ul style="list-style-type: none"> • Preventive maintenance planning and scheduling. • Leading inspection teams effectively and ensuring compliance. • Troubleshooting operational challenges and analyzing failures.
11.30	12.00	Coffee Break
12.00	14.00	<u>Supervisory Excellence & Advanced Applications:</u> <ul style="list-style-type: none"> • Advanced problem-solving and decision-making techniques. • Continuous improvement strategies for rig management. • Final evaluation and practical application exercises.
14.00	14.30	Questions, Discussion & Conclusion Training Course.
14.30		Buffet Lunch