AMERICAN GLOBAL INSTITUTE
FOR PRIVATE TRAINING

External Training Course

Completion Design Excellence: Practices, Performance & Reliability

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From 23 Mar. 2026 To 27 Mar. 2026
From 27 Apr. 2026 To 01 May 2026
From 25 May 2026 To 29 May 2026

Ramada Suites By Wyndham KLCC,
Kuala Lumpur, Malaysia

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External Training Course:

Completion Design Excellence: Practices, Performance & Reliability

From 23 Mar. 2026 To 27 Mar. 2026 Fees: 1850 KD
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Course Overview

The Completion Design Excellence: Practices, Performance & Reliability course provides a structured and in-depth overview of well completion design with a strong focus on proven practices, performance optimization, and long-term reliability. The course addresses the technical, operational, and practical aspects of completion design, enabling participants to develop well designs that are safe, efficient, and aligned with field development objectives.

The program covers the full completion design workflow, including completion concepts, equipment selection, design criteria, operational considerations, and performance evaluation. Emphasis is placed on integrating best practices with real operational challenges to enhance well productivity, minimize risks, and ensure reliability throughout the well lifecycle.

By the end of the course, participants will have a clear understanding of how to apply effective completion design practices, assess performance impacts, and make informed decisions that contribute to sustainable and reliable production outcomes in oil and gas operations.

Course Objectives

By the end of the Completion Design Excellence: Practices, Performance & Reliability course, participants will be able to:

- Understand the fundamental principles and best practices of well completion design across different well types and reservoir conditions.
- Apply practical completion design practices that enhance well performance and support long-term operational reliability.
- Evaluate completion design options and select appropriate systems and equipment based on technical, operational, and production requirements.
- Identify and mitigate risks related to completion integrity, operational challenges, and reliability issues.
- Analyze completion performance data to support optimization and continuous improvement initiatives.
- Integrate reliability-focused thinking into completion design decisions to reduce non-productive time and lifecycle costs.
- Strengthen professional competence in contributing to safe, efficient, and sustainable well completion operations.

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Training Methodology

The Completion Design Excellence: Practices, Performance & Reliability course is delivered using an interactive and practice-oriented training methodology designed to maximize learning effectiveness and real-world application. The program combines structured instruction with practical insights to ensure a balanced and engaging learning experience. The training methodology includes:

- Expert-led presentations covering core concepts, industry best practices, and practical completion design considerations.
- Interactive discussions that encourage knowledge sharing and exchange of field experience among participants.
- Real-world case examples to illustrate common challenges, performance issues, and reliability considerations in completion design.
- Practical exercises and applied scenarios focused on design decision-making, risk assessment, and performance evaluation.
- Continuous knowledge reinforcement through guided reviews and participant engagement.

This blended approach ensures that participants not only understand completion design principles but are also able to apply best practices effectively to enhance performance and reliability in their operational roles.

Organizational Impact

Improved quality and consistency of well completion designs aligned with best practices and operational standards.

Enhanced well performance and production reliability through better-informed completion design decisions.

Reduced operational risks, non-productive time, and lifecycle costs associated with completion failures or inefficiencies.

Stronger alignment between completion design, field development objectives, and long-term asset value.

Increased organizational capability in applying reliable and performance-driven completion design practices.

Personal Impact

Enhanced professional competence in well completion design practices and performance evaluation.

Improved ability to contribute effectively to completion design reviews and operational decision-making.

Greater confidence in addressing reliability, integrity, and performance challenges in completion operations.

Strengthened analytical and problem-solving skills related to completion design and optimization.

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Course Content & Outline

Day 1: Completion Design Fundamentals & Design Basis

- Role of completion design in well performance and asset value.
- Overview of completion types and applications.
- Key completion design objectives and success criteria.
- Reservoir, wellbore, and production data requirements.
- Design constraints and operational limitations.
- Interface between completion, drilling, and production disciplines.
- Industry standards, guidelines, and best practices.
- Establishing a robust completion design basis.

Day 2: Completion Design Practices & System Architecture

- Completion design workflow and decision-making process.
- Selection of completion concepts for different well conditions.
- Tubing design considerations and sizing criteria.
- Packer selection and setting philosophy.
- Downhole valves and flow control devices.
- Material selection and compatibility considerations.
- Design for operability and future interventions.
- Documentation and design review best practices.

Day 3: Performance Optimization in Completion Design

- Inflow performance and productivity considerations.
- Managing pressure losses and flow efficiency.
- Sand control design and performance impact.
- Artificial lift readiness and completion interface.
- Managing water and gas production challenges.
- Impact of completion design on production sustainability.
- Performance trade-offs and optimization techniques.
- Case examples of performance-driven completion design.

Day 4: Reliability, Integrity & Risk Management

- Completion integrity principles and lifecycle approach.
- Common completion failure modes and root causes.
- Reliability-centered completion design.
- Risk identification and assessment techniques.
- Design margins and contingency planning.
- Managing corrosion, erosion, and scaling risks.
- Reliability lessons learned from field experience.
- Enhancing long-term completion reliability.

Day 5: Operational Readiness, Evaluation & Continuous Improvement

- Installation and execution considerations.
- Interface with drilling, workover, and intervention operations.
- Quality control and assurance during completion activities.
- Post-completion performance monitoring.
- Data analysis and performance evaluation techniques.
- Capturing lessons learned and best practices.
- Continuous improvement in completion design practices.
- Aligning completion design with long-term field development goals.

Course Agenda:

(1st Day) Agenda

9.00	11.30	Discuss Course Major Points • Completion Design Fundamentals & Design Basis. • Completion Design Practices & System Architecture. • Performance Optimization in Completion Design. • Reliability, Integrity & Risk Management. • Operational Readiness, Evaluation & Continuous Improvement.
11.30	12.00	Coffee Break
12.00	14.00	Completion Design Fundamentals & Design Basis • Role of completion design in well performance and asset value. • Overview of completion types and applications. • Key completion design objectives and success criteria. • Reservoir, wellbore, and production data requirements. • Design constraints and operational limitations. • Interface between completion, drilling, and production disciplines. • Industry standards, guidelines, and best practices. • Establishing a robust completion design basis.
14.00	14.30	Questions and Discussion
14.30		Buffet Lunch

(2nd Day) Agenda

9.00	11.30	Completion Design Practices & System Architecture • Completion design workflow and decision-making process. • Selection of completion concepts for different well conditions. • Tubing design considerations and sizing criteria. • Packer selection and setting philosophy.
11.30	12.00	Coffee Break
12.00	14.00	Completion Design Practices & System Architecture • Downhole valves and flow control devices. • Material selection and compatibility considerations. • Design for operability and future interventions. • Documentation and design review best practices.
14.00	14.30	Questions and Discussion
14.30		Buffet Lunch

(3rd Day) Agenda

9.00	11.30	Performance Optimization in Completion Design • Inflow performance and productivity considerations. • Managing pressure losses and flow efficiency. • Sand control design and performance impact. • Artificial lift readiness and completion interface.
11.30	12.00	Coffee Break
12.00	14.00	Performance Optimization in Completion Design • Managing water and gas production challenges. • Impact of completion design on production sustainability. • Performance trade-offs and optimization techniques. • Case examples of performance-driven completion design.
14.00	14.30	Questions and Discussion
14.30		Buffet Lunch

(4th Day) Agenda

9.00	11.30	Reliability, Integrity & Risk Management • Completion integrity principles and lifecycle approach. • Common completion failure modes and root causes. • Reliability-centered completion design. • Risk identification and assessment techniques.
11.30	12.00	Coffee Break
12.00	14.00	Reliability, Integrity & Risk Management • Design margins and contingency planning. • Managing corrosion, erosion, and scaling risks. • Reliability lessons learned from field experience. • Enhancing long-term completion reliability.
14.00	14.30	Questions and Discussion
14.30		Buffet Lunch

(5th Day) Agenda

9.00	11.30	Operational Readiness, Evaluation & Continuous Improvement • Installation and execution considerations. • Interface with drilling, workover, and intervention operations. • Quality control and assurance during completion activities. • Post-completion performance monitoring.
11.30	12.00	Coffee Break
12.00	14.00	Operational Readiness, Evaluation & Continuous Improvement • Data analysis and performance evaluation techniques. • Capturing lessons learned and best practices. • Continuous improvement in completion design practices. • Aligning completion design with long-term field development goals.
14.00	14.30	Questions, Discussion & Conclusion Training Course.
14.30		Buffet Lunch