

Scandinavian Academy Training Center

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Riyadh - Al Khaleej District - Sheikh Abdul Aziz Bin Abdul Rahman Bin Bishr Street - 13223 - Office No. 5 | P.O.BOX : 13224

Course: Bolting and Flange Joint Integrity Specialist

Code	City	hotel	Start	End	price	Language - Hours
OG-811SA	Al Baha	Hotel Meeting	2026-12-06	2026-12-10	13950 SR	En - 25

Introduction

The bolting & flange joint integrity specialist qualification program is designed to train and evaluate a pressure equipment inspector's ability to access, inspect, manage and develop procedures in an effective manner during construction, commissioning and operational phases.

Through our course and hands-on training, successful candidates will understand and demonstrate the principles and practices to safe bolted joint assembly and implementation of flange integrity systems as outlined in Appendix A of ASME PCC-1" Guidelines for Pressure Boundary Bolted Flange Joint Assembly" and EN 15914:" Qualifications of personnel competency in the assembly of the bolted connections of critical service pressurized system."

OBJECTIVE:

- Explain the importance & method involved in bolting assemblies.
- Identify & evaluate the types of industrial flanged joints and problems.
- Describe common flange principles.
- Explain the advantages of using bolted & flange joints.
- Discuss the concepts that underlie a functioning bolted joint.
- Describe & recognize the importance of following the ASME PCC-1 guidelines.
- Contribute to a safe work environment for bolting assemblies.

WHO SHOULD ATTEND

- Engineers and technicians involved in the assembly, disassembly or quality

assurance of bolted joints for major plants, operators and contractors in oil & gas, petrochemical and power generations, or any industry that employs pressure boundary bolted flange joints.

- API Inspectors / Project Engineers.
- Inspection Supervisors.
- Technicians.
- Field QA /QC personnel

OUT LINE –

MODULE 1 - PRINCIPLES OF BOLTED JOINTS: -

- Introduction of bolted Joints
- General Bolting Principles
- Flange Assembly Component & Types of Joints

MODULE 2 – BOLTING & FLANGED ASSEMBLIES

- Introduction of Joint Assemblies
- Introduction of Flange Management Systems
- Method Of Tightening
- Safe Work Practices during Assemblies

MODULE 3 – INSPECTION AND TESTING

- Introduction of Inspection & Testing
- Inspection & Testing Requirements
- Technical Report Writing Skill
- Safe Work Practices during Inspection & Testing

MODULE 4 – MAINTENANCE: -

- Introduction of Maintenance

- Imperfections & Anomalies
- Maintenance Methods
- Records & Report Management
- Safe Work Practices during maintenance

MODULE 5-PRACTICAL APPLICATION

- Hand Torque Bolted Connection Techniques
- Hydraulically Torque Bolted Connection Techniques

The Scandinavian Academy for Training Center adopts the latest scientific and professional methodologies in training and human resource development, aiming to enhance the efficiency of individuals and organizations. Training programs are delivered through a comprehensive approach that includes:

- Theoretical lectures supported by PowerPoint presentations and visual materials (videos and short films).
- Scientific evaluation of participants before and after the program to measure progress and knowledge acquisition.
- Brainstorming sessions and practical role-playing to simulate real-life scenarios.
- Case studies tailored to align with the training content and participants work nature.
- Assessment tests conducted at the end of the program to evaluate the achievement of training objectives.

Each participant receives the training material (both theoretical and practical) in printed form and saved on a CD or flash drive. Detailed reports, including attendance records, final results, and overall program evaluations, are also provided.

Training materials are prepared professionally by a team of experts and specialists in various fields. At the end of the program, participants are awarded a professional attendance certificate, signed and accredited by the Scandinavian Academy for Training Center.

Program Timings: 9:00 AM to 2:00 PM

The program includes:

- A daily buffet provided during the sessions to ensure participants comfort.
- A closing ceremony on the final day to distribute certificates and celebrate participants achievements.
- **Note: All prices are exclusive of 15% Value Added Tax (VAT).**

Our Success Partners

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