



**Petroleum, Oil & Gas**



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Training and Development

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# Course: Bolting and Flange Joint Integrity Specialist

Code	City	hotel	Start	End	price	Hours
811	Toronto (Canada)	Hotel Meeting Room	2024-11-18	2024-11-22	6450 €	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.

## 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

## 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



**The Scandinavian Academy employs modern methods in training and skills development, enhancing the efficiency of human resource development. We follow these practices:**

- **Theoretical Lectures:**
  - We deliver knowledge through advanced presentations such as PowerPoint and visual materials, including videos and short films.
- **Scientific Assessment:**
  - We evaluate trainees skills before and after the course to ensure their progress.
- **Brainstorming and Interaction:**
  - We encourage active participation through brainstorming sessions and applying concepts through role play.
- **Practical Cases:**
  - We provide practical cases that align with the scientific content and the participants specific needs.
- **Examinations:**
  - Tests are conducted at the end of the program to assess knowledge retention.
- **Educational Materials:**
  - We provide both printed and digital scientific and practical materials to participants.
- **Attendance and Final Result Reports:**
  - We prepare detailed attendance reports for participants and offer a comprehensive program evaluation.
- **Professionals and Experts:**
  - The programs scientific content is prepared by the best professors and trainers in various fields.
- **Professional Completion Certificate:**
  - Participants receive a professional completion certificate issued by the Scandinavian Academy for Training and Development in the Kingdom of Sweden, with the option for international authentication.
- **Program Timings:**
  - Training programs are held from 10:00 AM to 2:00 PM and include buffet sessions for light meals during lectures.