



**SCANDINAVIAN ACADEMY**  
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# Course: Bolting and Flange Joint Integrity Specialist

Code	City	hotel	Start	End	price	Hours
811	Singapore (Singapore)	Hotel Meeting Room	2024-10-07	2024-10-11	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.

## 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 and Development 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.