

# ASME PCC-1-2022 Appendix A Synopsis











Doc No: P-TRA-212110-7.0

# **Technical Training Synopsis**

Hydratight was the first company worldwide to achieve Qualification Organisation status for the training, qualification, and certification of joint assembly personnel to ASME PCC-1 Appendix A.

Our program manual meets the criteria as detailed within the ASME PCC-1-2022 standard for Pressure Boundary Bolted Flange Joint Assembly and a blended learning approach is available, accommodating a full range of learning styles via a combination of instructor led, online and hands-on practical training.

Hydratight's ASME Bolting Trainers are competent in the courses that they deliver with industry specific experience and complete train the trainer program on how to deliver effective training sessions.

Key benefits to learners and employers include the achievement of industry recognised certification via a highly commended training organization, reducing risk, increasing safety, and preventing the loss of containment.

ASME PCC-1 Appendix A	
Overview	2
Route to Qualification	2
Bolting Assembler Training	3
Powered Equipment Endorsement Training	4
Heat Exchanger Endorsement Training	5
Special Joint Endorsement Training	6
ASME PCC-1 eLearning Courses & Blended Learning Courses	7



# ASME PCC-1-2022 Appendix A Synopsis

# **ASME PCC-1 Appendix A - Overview:**

The pressure boundary bolted flange joint assembly (BFJA) procedures detailed within this standard apply to pressure-boundary flanged joints with ring-type gaskets that are entirely within the circle enclosed by the bolt holes and with no contact outside the circle.

The scope and framework relevant to the training and qualification of bolted joint assembly personnel is provided within Appendix A of the standard.

The Hydratight Academy has developed a training and qualification program which meets the scope of Appendix A and is documented within a program manual which outlines how our program is administered and delivered.

## **Training Courses:**

ASME PCC-1-2022 Appendix A training courses available from the Hydratight Academy include:

### - Bolting Assembler Training

- Bolted flange joint disassembly, alignment, assembly, selection of target bolt loads, appropriate tooling, and tightening techniques relevant to the tightening of piping joints using hand torque tightening equipment.
- 1.5 days duration

## Powered Equipment Endorsement Training

- Bolted flange joint disassembly, assembly and tightening techniques using hydraulic torque and bolt tensioning equipment.
- 1 day duration

## Heat Exchanger Endorsement Training

- Heat exchanger joint disassembly, assembly and tightening techniques using hydraulic torque and bolt tensioning equipment.
- 1 day duration

#### Special Joint Endorsement Training

- Clamp connector and compact flange disassembly, assembly and tightening techniques using hand and hydraulic torque equipment.
- 1 day duration

#### **Route to Qualification:**

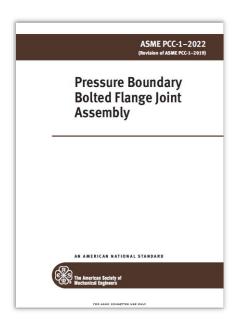
Doc No: P-TRA-212110-7.0

Individuals with current Appendix A training certificates or legacy training/qualification certificates may use the academic and practical examinations to complete or update their qualification certification.

#### Certification:

Satisfactory completion of ASME PCC-1 Appendix A training is recognised by award of a Hydratight "Training Certificate" which proves trained status only and not qualification or competence.

Successful completion of ASME PCC-1 Appendix A academic and practical examinations is recognised by award of a Hydratight "Qualification Certificate" which is valid for 3 years.





# ASME PCC-1-2022 Appendix A Synopsis

## **Program Title:**

ASME PCC-1 Appendix A

## **Course Title:**

- Bolting Assembler Training

#### **Course Summary**

- Derived from ASME PCC-1-2022, Appendix A relevant to the training and qualification of bolted joint assembly personnel.
- The course will deliver a thorough understanding of the Training of Fundamentals curriculum within A-2.1-1 and the Piping Endorsement curriculum within A-2.2-1 of Appendix A and is suited to individuals who are required to disassemble and assemble bolted flange joints.

#### Skill Level

Level 2

#### Certification

- Hydratight Certification
- Training Certificates Open validity
- Qualification Certificates 3 years validity

#### **Course Options**

- Bolting Assembler Training (1.5 days)
- Powered Equipment Endorsement Training (1 day)
- Heat Exchanger Endorsement Training (1 day)
- Special Joint Endorsement Training (1 day)

#### **Class Size**

Maximum 6 delegates

Doc No: P-TRA-212110-7.0

#### **Course Content**

- Bolted flange joint disassembly, alignment, assembly, selection of target bolt loads, appropriate tooling, and tightening techniques relevant to the tightening of piping joints using hand torque tightening equipment.

### **Delivery Options**

- Instructor Led Traditional instructor led classroom and practical training.
- Online eLearning knowledge only option or pre-requisite for blended learning.
- Blended Combination of online and instructor led practical training.



# ASME PCC-1-2022 Appendix A Synopsis

## **Program Title:**

ASME PCC-1 Appendix A

# **Course Title:**

- Powered Equipment Endorsement Training

#### **Course Summary**

- Derived from ASME PCC-1-2022, Appendix A relevant to the training and qualification of bolted joint assembly personnel.
- The course will deliver a thorough understanding of the Powered Equipment Endorsement curriculum within A-2.3-1 of Appendix A.

#### **Skill Level**

Level 2

#### Certification

- Hydratight Certification
- Training Certificates Open validity
- Qualification Certificates 3 years validity

#### **Course Options**

- Bolting Assembler Training (1.5 days)
- Powered Equipment Endorsement Training (1 day)
- Heat Exchanger Endorsement Training (1 day)
- Special Joint Endorsement Training (1 day)

#### **Class Size**

Maximum 6 delegates

#### **Course Content**

- The course will deliver a thorough technical and practical understanding of bolted flange joint disassembly, assembly and tightening techniques using hydraulic torque and bolt tensioning equipment.

# **Pre-requisites**

Bolting Assembler Training (1.5 days)

#### **Delivery Options**

Doc No: P-TRA-212110-7.0

- Instructor Led Traditional instructor led classroom and practical training.
- Online eLearning knowledge only option or pre-requisite for blended learning.
- Blended Combination of online and instructor led practical training.



# ASME PCC-1-2022 Appendix A Synopsis

## **Program Title:**

ASME PCC-1 Appendix A

#### **Course Title:**

- Heat Exchanger Endorsement Training

## **Course Summary**

- Derived from ASME PCC-1-2022, Appendix A relevant to the training and qualification of bolted joint assembly personnel.
- The course will deliver a thorough understanding of the Heat Exchanger Endorsement curriculum within A-2.4-1 of Appendix A.

#### **Skill Level**

Level 2

#### Certification

- Hydratight Certification
- Training Certificates Open validity
- Qualification Certificates 3 years validity

#### **Course Options**

- Bolting Assembler Training (1.5 days)
- Powered Equipment Endorsement Training (1 day)
- Heat Exchanger Endorsement Training (1 day)
- Special Joint Endorsement Training (1 day)

#### **Class Size**

Maximum 6 delegates

#### **Course Content**

- The course will deliver a thorough technical and practical understanding of heat exchanger joint disassembly, assembly and tightening techniques using hydraulic torque and bolt tensioning equipment.

#### **Pre-requisites**

- Bolting Assembler Training (1.5 days)
- Powered Equipment Endorsement Training (1 day)

#### **Delivery Options**

Doc No: P-TRA-212110-7.0

- Instructor Led Traditional instructor led classroom and practical training.
- Online eLearning knowledge only option or pre-requisite for blended learning.
- Blended Combination of online and instructor led practical training.



# ASME PCC-1-2022 Appendix A Synopsis

## **Program Title:**

ASME PCC-1 Appendix A

## **Course Title:**

Special Joint Endorsement Training

## **Course Summary**

- Derived from ASME PCC-1-2022, Appendix A relevant to the training and qualification of bolted joint assembly personnel.
- The course will deliver a thorough understanding of the Special Joint Endorsement curriculum within A-2.5 of Appendix A.

#### **Skill Level**

Level 2

#### Certification

- Hydratight Certification
- Training Certificates Open validity
- Qualification Certificates 3 years validity

#### **Course Options**

- Bolting Assembler Training (1.5 days)
- Powered Equipment Endorsement Training (1 day)
- Heat Exchanger Endorsement Training (1 day)
- Special Joint Endorsement Training (1 day)

#### **Class Size**

Maximum 6 delegates

#### **Course Content**

- The course will deliver a thorough technical and practical understanding of clamp connector and compact flange disassembly, assembly and tightening techniques using hand and hydraulic torque equipment.

#### **Pre-requisites**

- Bolting Assembler Training (1.5 days)
- Powered Equipment Endorsement Training (1 day)

#### **Delivery Options**

Doc No: P-TRA-212110-7.0

- Instructor Led Traditional instructor led classroom and practical training.
- Online eLearning knowledge only option or pre-requisite for blended learning.
- Blended Combination of online and instructor led practical training.



# ASME PCC-1-2022 Appendix A Synopsis

## ASME PCC-1 Appendix A - eLearning Courses

Hydratight certified online training courses, completed as refresher training prior to attendance of examination or as **Module 1** of an ASME PCC-1 Appendix A blended learning program.

To view a detailed description of our ASME PCC-1 Appendix A eLearning courses, please visit our <u>LDMS</u> course category page.

Contact <u>eLearning@hydratight.com</u> to enrol on Hydratight Academy eLearning courses.





## **Bolting Assembler Training**



Powered Equipment Endorsement Training



Heat Exchanger Endorsement Training

Special Joint Endorsement Training

#### ASME PCC-1 Appendix A – Blended Learning Courses

Hydratight certified practical training courses, completed as **Module 2** of an ASME PCC-1 Appendix A blended learning program, after completion of an associated **Module 1** ASME PCC-1 Appendix A eLearning course.

Contact <u>training@hydratight.com</u> to enquire about Hydratight Academy ASME PCC-1 Appendix A blended learning courses and local delivery options.

