

CSWIP Plant Inspector Level 1

Direct Entry Route

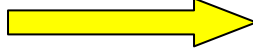
Must hold current EN 473 or ASNT, SNT-TC-1A Level 2 NDE approvals in 2 methods

AND

CSWIP 3.0 Visual Welding Inspection qualification or above

For complete entry requirements, please refer to the CSWIP document available on the CSWIP website:

www.cswip.com



Module 1 - Part A

RULES/REGULATIONS AND DUTIES OF A PLANT INSPECTOR

[\(Course Ref. PL11\)](#)

5 days inc. examination

- Legislation, rules and regulations
- An introduction to:
 - Engineering materials
 - NDT
 - Visual examination of welds
- The Plant Inspector:
 - Roles and duties
 - Works inspection/ISI/FFP
 - Inspection safety
 - Basic inspection skills
 - Using codes and standards
 - Inspection reports
- ITPs
- Inspecting materials



Module 1 - Part B

INSPECTION METHODS

[\(Course Ref. PL12\)](#)

5 days inc. examination

- Use of codes and standards
- An introduction to the inspection of:
 - Pressure equipment
 - Vessel
 - Piping
 - Storage tanks
 - Coating and lining
- An introduction to risk-based inspection
- Inspection reports



On successful completion of the CSWIP Examination
CSWIP Plant Inspection Level 1 is awarded

CSWIP Plant Inspector Levels 2/3

Must hold CSWIP Plant Inspector Level 1 qualification

For complete entry requirements, please refer to the CSWIP document available on the CSWIP website: www.cswip.com

Module 2

DAMAGE MECHANISM ASSESSMENT FOR RBI AND FFS BASED ON API RP 571

[\(Course Ref. ATC117\)](#)

3 days inc. examination

- Service induced failure
- Plant failure investigations
- Awareness and understanding of damage mechanisms
- Relevance of damage mechanism, monitoring to RBI and FFS
- Organisation and scope of API 571

Module 3

RISK-BASED INSPECTION (RBI) IN ACCORDANCE WITH API 580 RECOMMENDED PRACTICE

[\(Course Ref. ATC115\)](#)

2 days inc. examination

- Overview of RBI
- Understanding reasons for RBI
- Appreciate the benefits of using RBI
- Inspection plans and risk mitigation
- Planning and managing RBI systems
- Appreciation of RBI software

Module 4

FITNESS-FOR-SERVICE BASED ON API 579-1 AND ASME FFS-1

[\(Course Ref. ATC116\)](#)

4 days inc. examination

- Why fitness-for-service?
- Definition of fitness-for-service
- Common standards of assessment
- BS 7910 and API 579-1/ASME FFS-1

Module 5

REPAIR OF PRESSURE EQUIPMENT AND PIPING

[\(Course Ref. ATC121\)](#)

1 day inc. examination

- Repair – codes and standards
- Composite repairs
- Conventional repairs
- Documents and QA
- Hot tapping
- Mechanical repairs
- Repair of pressure equipment
- Repair without PWHT
- Weld process options

Module 6

PRESSURE VESSEL INSPECTION BASED ON API 510

6 days inc. CSWIP examination

- Extensive overview of API 510 'Body of Knowledge'
- Review of ASME welding requirements for pressure vessels
- ASME NDE principles of section V
- Corrosion allowances, inspection and degradation mechanisms
- Remaining life calculations

Module 7

PIPING INSPECTOR BASED ON API 570

6 days inc. CSWIP examination

- Extensive overview of API 570 'Body of Knowledge'
- Review of ASME welding requirements for pressure piping
- ASME NDE principles of Section V
- Corrosion allowances, inspection and degradation mechanisms
- Remaining life calculations

Module 8

ABOVEGROUND TANK INSPECTOR BASED ON API 653

6 days inc. CSWIP examination

- Extensive overview of API 653 'Body of Knowledge'
- Review of ASME welding requirements for storage tanks section IX and API 650 piping
- ASME NDE principles of Section V
- Review of API 653 inspection, repair alteration and construction of tanks

On successful completion of four CSWIP modules CSWIP Plant Inspection Level 2 is awarded

On successful completion of six CSWIP modules CSWIP Plant Inspection Level 3 is awarded