# ABOUT COMPETENT PERSONS



**THE SAIW COMPETENT PERSON (CP) OR INSPECTOR OF PRESSURISED EQUIPMENT (IPE) COURSES ARE IDEAL FOR PERSONS INTENDING TO WORK AS INSPECTORS FOR AN APPROVED INSPECTION AUTHORITY (AIA).**

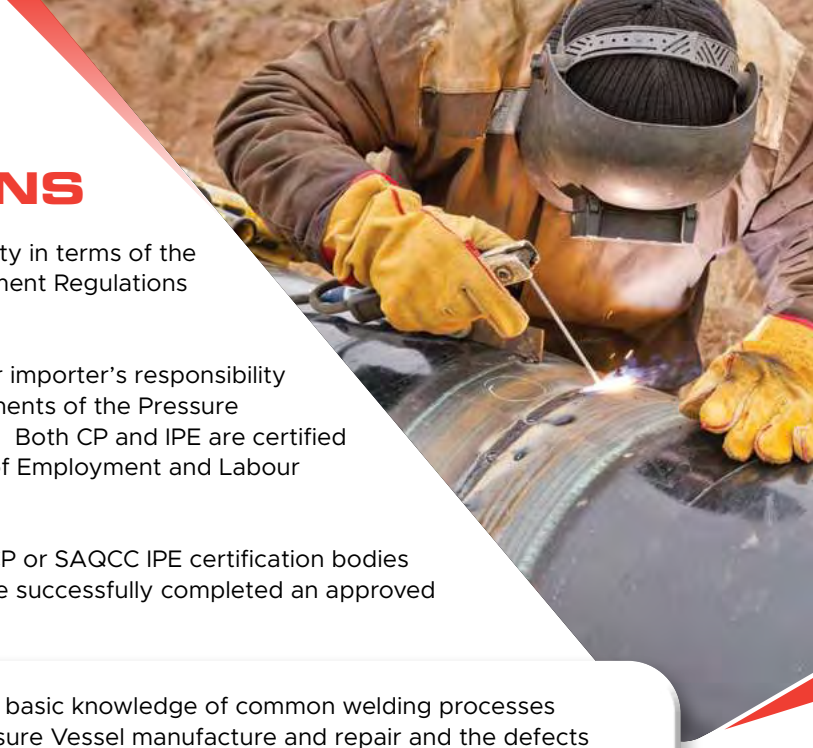
The CP courses are suitable for engineering personnel responsible for in-service inspection requirements, whilst the IPE courses are suitable for engineering personnel responsible for newly built or repaired equipment according to the Pressure Equipment Regulations (PER).

After completion of the courses at SAIW the individual will gain his required practical experience (10 vessels or 10 boilers) at an Authorised Inspection Authority (AIA).

The CP Steam Generator (CP-SG) and CP Pressure Vessel (CP-PV) are authorised inspectors of in-service equipment, whilst IPEs are authorised inspectors on newly built or repaired components for Pressure Equipment.

| | COMPETENT PERSONS | | INSPECTOR OF PRESSURISED EQUIPMENT |
|---|---|---|---|
| **Theory +** | CP-PV (3-week course) | CP-SG (2-week course) | Inspectors Level 1 (4-week course) |
| | | | Inspectors Level 2 (5-week course) |
| | | | RT Interpreters (2-week course) |
| | | | ASME (2-week course) |
| **Experience** | 10 Vessels (AIA) | 10 Vessels (AIA) | 10 Vessels (AIA) |
| **=** | CV | CV | CV |
| **Certified** | Certified CP-PV | Certified CP-SG | Certified IPE |

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## ABOUT
# COMPETENT PERSONS

The CP certification will ensure that the user's responsibility in terms of the in-service inspection requirements of the Pressure Equipment Regulations (PER) are appropriately managed.

The IPE certification will ensure that the local fabricator or importer's responsibility in terms of the newly built or repaired inspection requirements of the Pressure Equipment Regulations (PER) are appropriately managed. Both CP and IPE are certified personnel as required by the South African Department of Employment and Labour according to the Occupational Health and Safety Act.

CPs and IPEs are required to be certified by the SAQCC CP or SAQCC IPE certification bodies and it is an essential requirement that the candidates have successfully completed an approved training course for certification.

### Scope CPs

Successful candidates will have a basic knowledge of common welding processes used in Steam Generator or Pressure Vessel manufacture and repair and the defects that may occur in original manufacture; have gained knowledge and understanding of the defects that arise in service and possible equipment failure mechanisms; have gained knowledge of the suitability of NDT test methods; understand the roles and responsibilities of the user, the AIA in-service and the competent person inspector in complying with the in-service inspection requirements of the PER and have sufficient technical knowledge to be able to perform in-service inspection.

### Scope IPEs

Successful candidates will have extensive knowledge of common welding processes, weld metallurgy, heat treatment, NDT methods and welding coordination used in the fabrication and repair of steam generator and pressure vessels.

The candidate will be able to verify correct welders and welding procedures and be able to interpret and evaluate radiographs. The candidate will review data packs and sign them off on behalf of the AIA.

The IPE will understand the roles and responsibilities of the fabricator, the AIA for new and repaired pressure equipment. He will also liaise with the CP before the components are placed back in-service and the competent person inspector in complying with the in-service inspection requirements.

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# COMPETENT PERSONS

## COURSE INFORMATION

### ENTRY REQUIREMENTS

- ✓ Matric **OR**
- ✓ Successful completion of the SAIW Introduction Introduction to Inspection Course **OR**
- ✓ Two years professional welding experience **OR**
- ✓ Gr. 10 plus a pass in an SAIW proficiency test **OR**
- ✓ Welding Inspection Level 1 qualification

## STEAM GENERATORS

**COURSE DURATION**
10 days

**PRICING (Including VAT)**

| | |
|---|---|
| Corporate Member | R 30 056 |
| Non-Corporate Member | R 32 438 |

*Prices subject to change

## PRESSURE VESSELS

**COURSE DURATION**
15 days

**PRICING (Including VAT)**

| | |
|---|---|
| Corporate Member | R 40 263 |
| Non-Corporate Member | R 43 553 |

*Prices subject to change

Scan to download the SAIW Course Prospectus App.

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# COMPETENT PERSONS

## Course Schedule | Competent Persons Steam Generators

| JOHANNESBURG, DURBAN | | | | |
|---|---|---|---|---|
| **WEEK** | **COURSE INFORMATION** | **HRS** | **JHB 01** | **DBN 01** |
| 1 | Legislation<br>PER Codes and Standards | 40 | 28 Jun - 02 Jul | 06-10 Sep |
| 2 | Legislation<br>PER Codes and Standards | 32 | 05-07 Jul | 13-16 Sep |
| | **Exam** | | **09 Jul** | **17 Sep** |

## Course Schedule | Competent Persons Pressure Vessels

| JOHANNESBURG, CAPE TOWN, DURBAN | | | | | |
|---|---|---|---|---|---|
| **WEEK** | **COURSE INFORMATION** | **HRS** | **JHB 01** | **CPT 01** | **DBN 01** |
| 1 | API 510 Inspection of Pressure Vessels<br>API RP 572 Inspection Practice For Pressure Vessels<br>API RP 571 Damage Mechanisms Affecting Fixed Equipment in the Refining Industry<br>API RP 577 Welding Processes, Inspection and Metallurgy | 40 | 25-28 Jan | 08-11 Mar | 10-13 May |
| | **Exam** | | **29 Jan** | **12 Mar** | **14 May** |
| 2 | NB-23 National Board Inspection Code- Part 2 - Inspection<br>ASME PCC-2 Repair of Pressure Equipment and Piping<br>API RP 580 Risk-based Inspection<br>API 579 Fitness for Service | 40 | 01-04 Feb | 15-18 Mar | 17-20 May |
| | **Exam** | | **05 Feb** | **19 Mar** | **21 May** |
| 3 | PER- Pressure Equipment Regulations<br>SANS 347 - Categorization and Conformity Assessment Criteria for all Pressure Equipment<br>SANS 10227 - Criteria for the Accreditation of Approved Inspection Authorities Performing Inspection in Terms of the Pressure Equipment Regulations | 24 | 08-11 Feb | 05-08 Apr | 25-27 May |
| | **Exam** | | **12 Feb** | **09 Apr** | **28 May** |

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