

If you enjoyed chemistry at school and your interest in liquids exceeds that of swimming and the occasional beer, then we invite you to start your career in one of the most basic yet useful NDT methods around.

Inspection techniques depend on whether the dye used is under normal light or backlight conditions (or both), the type of penetrant, excess penetrant removal process as well as developer used during testing. Furthermore, since

temperature has an effect on the liquid properties such as viscosity and evaporation special techniques are applicable at excessively high and low temperatures.

The training course is based on general theory as well as sector specific applications relating, but not limited to, the following standards and specifications:

- ASME Boiler & Pressure Vessel Code - Section V - Subsection A - Article 1 & 6
- ASME Boiler & Pressure Vessel Code - Section V - Subsection B - Article 24
- ISO 3452 Parts 1 PT – General Principals
- ISO 3452 Parts 2 PT – Testing of penetrant materials
- ISO 3452 Parts 3 PT – Reference test blocks
- ISO 3452 Parts 4 PT – Equipment
- ISO 3452 Parts 5 PT – Testing at temperatures > 50 °C
- ISO 3452 Parts 6 PT – Testing at temperatures < 10 °C
- ISO 12706 PT – Vocabulary
- ISO 23277 PT – Acceptance Levels

PENETRANT TESTING - SAQCC NDT SCHEME (ISO 9712) NON-DESTRUCTIVE TESTING - SURFACE METHODS												
NDT Method and Level	Industrial Sector	Product Sector / Category	Duration Duration 1 day = 8 hours	Prices (Inclusive of VAT)			Course & Initial Exam Dates					
				Training & Initial Examination Non Members	Training & Initial Examination Members	Initial Certification						
Penetrant Testing Level 1	Pre- and in-service	PT 1.1 Forging (f) PT 1.2 Castings (c) PT 1.3 Welds (w)	Training 4 days Exam 1 day	R 15 147	R 14 010	R 2 436	Course Code	PT 1 A - JHB 01	PT 1 A - JHB 02	PT 1 A - JHB 03	PT 1 A - JHB 04	PT 1 A - JHB 05
							Training	14 - 17 Jan	04 - 07 Feb	25 - 28 Feb	06 - 09 May	27 - 30 May
							Exam	18 Jan	08 Feb	01 Mar	10 May	31 May
							Course Code	PT 1 A - JHB 06	PT 1 A - JHB 07	PT 1 A - JHB 08	PT 1 A - JHB 09	PT 1 A - JHB 10
							Training	24 - 27 Jun	15 - 18 Jul	12 - 15 Aug	02 - 05 Sept	30 Sept - 03 Oct
							Exam	28 Jun	19 Jul	16 Aug	06 Sept	04 Oct
		Course Code	PT 1 A - JHB 11	PT 1 A - JHB 12	PT 1 A - DBN 01	PT 1 A - DBN 02	PT 1 A - DBN 03					
		Training	28 - 31 Oct	25 - 28 Nov	28 - 31 Jan	10 - 13 Jun	26 - 29 Aug					
		Exam	01 Nov	29 Nov	01 Feb	14 Jun	30 Aug					
		Course Code	PT 1 A - CPT 01	PT 1 A - CPT 02	PT 1 A - CPT 03	PT 1 A - SASOL A	PT 1 A - SASOL B					
		Training	21 - 24 Jan	03 - 06 Jun	11 - 14 Nov	01 - 04 Apr	25 - 28 Mar					
		Exam	25 Jan	07 Jun	15 Nov	05 Apr	29 Mar					
Penetrant Testing Level 2	Pre- and in-service	PT 2.1 Forging (f) PT 2.2 Castings (c) PT 2.3 Welds (w)	Training 4 days Exam 1 day	R 15 147	R 14 010	R 2 436	Course Code	PT 2 A - JHB 01	PT 2 A - JHB 02	PT 2 A - JHB 03	PT 2 A - JHB 04	PT 2 A - JHB 05
							Training	11 - 14 Feb	11 - 14 Mar	08 - 11 Apr	03 - 06 Jun	22 - 25 Jul
							Exam	15 Feb	15 Mar	12 Apr	07 Jun	26 Jul
							Course Code	PT 2 A - JHB 06	PT 2 A - JHB 07	PT 2 A - JHB 08	PT 2 A - JHB 09	PT 2 A - DBN 01
							Training	19 - 22 Aug	14 - 17 Oct	11 - 14 Nov	02 - 05 Dec	06 - 09 May
							Exam	23 Aug	18 Oct	15 Nov	06 Dec	10 May
		Course Code	PT 2 A - DBN 02	PT 2 A - CPT 01	PT 2 A - CPT 02	PT 2 A - SASOL A	PT 2 A - SASOL B					
		Training	07 - 10 Oct	25 - 28 Mar	19 - 22 Aug	16 - 19 Sept	09 - 12 Sept					
		Exam	11 Oct	29 Mar	23 Aug	20 Sept	12 Sept					

Please note that any comments, compliments or complaints related to:

1. Training can be forwarded to quality@saiw.co.za 2. Examination and Certification can be forwarded to quality@saiwcertification.co.za