

If this sounds like a mouthful, then we invite you to dust off your high school knowledge regarding electrical transformers and attend an ECT course.

The techniques utilised in eddy current testing depends on the sample being tested, i.e. whether it is a surface, tube, bar or other more complex shapes since it dictates the type of probe to be used. Furthermore, the number of frequencies and the inspection mode(s) such as absolute or differential determines the multi- frequency and / or mode technique description.

The presence of magnetic saturation weak magnetic alloys, shielding or focussing nature of the probe as well as the display capabilities extends the technique description. 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 & 8
- ASME Boiler & Pressure Vessel Code - Section V - Subsection B - Article 26
- ISO 15549 ECT – General principles
- ISO 15548 Part 1 ECT – Instrument Characteristics and verification
- ISO 15548 Part 2 ECT – Probe Characteristics and verification
- ISO 15548 Part 3 ECT – System Characteristics and verification
- ISO 17643 ECT – Welds
- ISO 2360 ECT - Non-Conductive coatings – Amplitude sensitive equipment
- ISO 21968 ECT - Non-Conductive coatings – Phase sensitive equipment
- ISO 12718 ECT - Vocabulary

NON-DESTRUCTIVE TESTING EDDY CURRENT TESTING												
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						
Eddy Current Testing Level 1	Pre- and in-service	ECT 1.1: Surface (s)	Training 4 days	ECT 1.1 R 15 147	ECT 1.1 R 14 010	ECT 1.1 R 2 436	Course Code	ECT 1.1 - JHB 01	ECT 1.2 - JHB 01	ECT 1.1 - JHB 02	ECT 1.2 - JHB 02	
							Training	04 - 07 Mar	25 - 28 Mar	13 - 16 May	10 - 13 Jun	
		ECT 1.2: Tubes (t)	Exam 1 day	ECT 1.2 R 15 147	ECT 1.2 R 14 010	ECT 1.1 R 2 436	Exam	8 Mar	29 Mar	17 May	14 Jun	
							Course Code	ECT 1.1 - CPT 01	ECT 1.2 - CPT 02	ECT 1.1 - CPT 03	ECT 1.2 - CPT 04	ECT 1.1 - CPT 05
							Training	04 - 07 Feb	21 -24 Jan	06 -11 Apr	09 -11 May	29 July - 01 Aug
Exam	08 Feb	25 Jan	12 Apr	12 May	02 Aug							
Eddy Current Testing Level 2	Pre- and in-service	ECT 2.1: Surface (s)	Training 4 days	ECT 2.1 R 15 147	ECT 2.1 R 14 010	ECT 2.1 R 2 436	Course Code	ECT 2.1 - JHB 01	ECT 2.2 - JHB 01	ECT 2.2 - CPT 01	ECT 2.1 - CPT 02	ECT 2.2 - CPT 02
							Training	06 - 09 May	01 - 04 July	08 - 11 Apr	30 Sept - 03 Oct	03 - 06 Dec
		ECT 2.2: Tubes (t)	Exam 1 day	ECT 2.2 R 15 147	ECT 2.2 R 14 010	ECT 2.1 R 2 436	Exam	10 May	05 July	12 Apr	04 Oct	07 Dec

PLEASE NOTE: ADVANCED OPTION: ECT 2.5 - DIGITAL APPLICATIONS AND SIGNAL ANALYSIS ARE AVAILABLE ON REQUEST AND SUBJECT TO DEMAND.

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