

# Visual Testing

## Course Information

Visual Testing (VT) stands out as one of the simplest yet most widely employed non-destructive testing (NDT) methods in use today. VT often takes precedence as the initial inspection step for any component or environment, as it necessitates direct observation of the area under scrutiny. This method primarily focuses on surface inspection, making it an essential tool in the NDT toolkit.

VT harnesses the power of visible light, falling within the 390 to 700 nm range of the electromagnetic spectrum, and its interaction with solid surfaces. This interaction allows for the detection of surface indications that are open and unobstructed, free from any foreign materials or debris. In essence, what is visible to the eye corresponds directly to what can be detected.

If your high school experiences with lenses and mirrors piqued your interest, or if the intrigue of lasers has captivated your imagination, then an exploration of the fundamental realm of NDT through Visual Testing is an invitation to embark on a journey that may transform you into the modern-day 'Sherlock Holmes' of visual inspection specialists—the most iconic of all times.

The VT Method encompasses three primary techniques, each tailored to the accessibility of the surface and the nature of the material being examined. These techniques include direct, indirect, and translucent methods, offering a versatile array of approaches to suit various testing scenarios.

Pursuing a course in VT not only introduces you to the foundational NDT method but also equips you with the skills and knowledge needed to meticulously examine and uncover hidden details, making it a vital discipline in ensuring the integrity and safety of critical components in numerous industries.



# Visual Testing

If you enjoyed working with lenses and mirrors in high school and if lasers fascinates you, then you are invited to attend a course in the most basic of all NDT methods and challenge you to become the next ‘Sherlock Holmes’ – certainly the most famous ‘visual testing specialist’ of all times.

The Visual Testing method can be divided into three main techniques depending on the access to the surface. The techniques are direct, indirect and translucent and depend on the type of material to be tested.

**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 & 9
- ISO 3058 VT – Low power magnifiers
- ISO 8785 VT – Geometrical product specifications
- ISO 13385 Part 1 VT – Geometrical product specifications : Callipers
- ISO 13385 Part 2 VT – Geometrical product specifications : Calliper depth gauges
- ISO 11971 VT – Castings
- ISO 17637 VT – Welds

VISUAL TESTING - SAIW CERTIFICATION NDT SCHEME (ISO 9712)   NON-DESTRUCTIVE TESTING - SURFACE METHODS										
NDT Method and Level	Industrial Sector	Product Sector / Category	Duration 1 day = 8 hours	Prices (Inclusive of VAT)			Course & Initial Exam Dates			
				Training & Initial Examination Non-Corporate Members	Training & Initial Examination Corporate Members	Initial Certification				
Visual Testing Level 1	Pre- and in-service	VT 1.1 Forging (f)	Training 4 days  Exam 1 day	<b>R 16,100</b>	<b>R 15,000</b>	<b>R 2,500</b>	Course Code	VT 1 A JHB 01	VT 1 A JHB 02	VT 1 A JHB 03
		Training					13 - 16 Jan	05 - 08 May	29 Sept - 02 Oct	
		Exam					17 Jan	09 May	03 Oct	
Visual Testing Level 2	Pre- and in-service	VT 2.1 Forging (f)	Training 4 days  Exam 1 day	<b>R 16,100</b>	<b>R 15,000</b>	<b>R 2,500</b>	Course Code	VT 2 A JHB 01	VT 2 A JHB 02	
		Training					24 - 27 Mar	18 - 21 Aug		
		Exam					28 Mar	22 Aug		