

NDT Visual Testing Level 2 Practice Training Course

13 – 17 June 2027
Johannesburg

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Training Center

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Ref: 1887_240691 **Date:** 13 – 17 June 2027 **Location:** Johannesburg **Fees:** 6000 Euro

Overview

NDT Visual Testing Level 2 Practice Training Course is a one-week intermediate programme for NDT technicians, inspectors, welding personnel, and quality teams who need a Visual Testing Examination Pack. Participants connect vision and lighting, optics, direct and remote techniques, equipment checks, surface preparation, discontinuity characterization, measurement, governing acceptance criteria, work instructions, and traceable reporting. Level 2 describes the depth of practice only; completion does not confer certification, employer authorization, or independent acceptance authority. Agile Leaders Training Center delivers this visual-testing practice course.

Who Should Attend

- NDT technicians developing intermediate visual-testing practice
- Welding inspectors reviewing joints before, during, and after welding
- Quality personnel responsible for inspection records and traceability
- Maintenance inspectors examining accessible components and surfaces
- Supervisors reviewing technique selection, instructions, and reports

Participants should understand basic materials, manufacturing, welding, and inspection safety. Formal qualification, vision testing, experience, examination, and employer authorization remain separate requirements.

Departments and Industries

The course supports fabrication, welding, manufacturing, energy, oil and gas, utilities, transport, and maintenance environments.

- Non-destructive testing and inspection
- Welding and fabrication quality
- Maintenance and asset integrity
- Manufacturing and supplier quality
- Projects and technical assurance

Learning Objectives

By the end of this course, participants will be able to:

- Explain visual-testing principles, scope, limitations, and responsibility boundaries
- Evaluate vision, lighting, contrast, resolution, and access conditions
- Select direct or remote techniques and verify equipment readiness
- Characterize, measure, and record visible surface indications
- Apply written instructions and governing acceptance criteria without exceeding authority
- Prepare a traceable Visual Testing Examination Pack

Course Agenda

Day 1: Visual Testing Principles and Examination Conditions

- Visual Testing Purpose, Scope, Limitations, and Responsibility Matrix
- Near Vision, Colour Perception, Contrast, and Resolution Review
- White-Light Intensity, Glare, Shadow, and Viewing-Angle Checklist
- Surface Accessibility, Cleanliness, Temperature, and Safety Assessment
- Examination Instruction, Reference Document, and Hold-Point Register

Day 2: Direct and Remote Techniques and Equipment

- Direct, Translucent, and Remote Visual Technique Selection
- Mirror, Magnifier, Borescope, Camera, and Measurement Tool Map
- Equipment Condition, Function, Calibration, and Characterization Check
- Field of View, Depth of Field, Focus, Scale, and Image Orientation
- Technique Demonstration and Examination-Setup Worksheet

Day 3: Materials, Processes, and Visible Discontinuities

- Cast, Wrought, Machined, Formed, and Coated Surface Features
- Welding Process Stages and Joint Preparation Review
- Crack, Lap, Seam, Undercut, Porosity, Misalignment, and Profile Indicators
- Relevant, Non-Relevant, False, and Process-Related Indication Sorting
- Discontinuity Location, Orientation, Length, Width, and Depth Record

Day 4: Weld and Component Examination Practice

- Pre-Weld Joint Preparation, Alignment, Cleanliness, and Fit-Up Checklist
- In-Process Welding Condition and Interpass Observation Record
- Final Weld Surface, Profile, Dimension, and Adjacent-Area Review
- Component Surface, Fastener, Flange, Pipe, and Accessible Cavity Examination
- Practical Examination Route and Evidence-Capture Exercise

Day 5: Evaluation, Instructions, and Reporting

- Procedure, Work Instruction, Drawing, and Acceptance-Criteria Traceability
- Indication Characterization and Acceptance Decision Boundary
- Sketch, Photograph, Location Map, Measurement, and Essential-Variable Record
- Finding Classification, Report Review, Escalation, and Supervisor Sign-Off
- Capstone Exercise: Visual Testing Examination Pack

Practical Exercises

Guided activities convert examination conditions and visible evidence into controlled inspection records.

- Verify lighting, viewing distance, access, and equipment readiness
- Select a direct or remote visual-testing technique
- Characterize and size visible surface indications
- Apply a supplied acceptance criterion within stated authority
- Prepare and review a Visual Testing Examination Pack

FAQs

Does this course provide NDT Level 2 certification?

No. It provides intermediate practice only. Certification, experience, vision, examination, and employer-authorization requirements remain separate.

Are direct and remote visual techniques covered?

Yes. Participants compare access, optics, equipment, image quality, limitations, and evidence for both approaches.

Does the course cover weld inspection?

Yes. It reviews joint preparation, in-process observations, final weld surfaces, dimensions, indications, and records.

Can participants make acceptance decisions after the course?

Only within the authority, procedure, criteria, and supervision assigned by their organization. The course itself grants no authority.

What will participants take back to work?

A Visual Testing Examination Pack containing condition checks, technique selection, equipment records, indication data, evaluation traceability, and a report.

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Conclusion

Participants return able to plan and document visual examinations, select suitable techniques, evaluate visible evidence against assigned criteria, and escalate decisions that exceed their authority.