

# NDT Visual Testing Level 2 Practice Training Course

18 – 22 October 2027
Singapore

AGILE LEADERS
Training Center

# NDT Visual Testing Level 2 Practice Training Course

**Ref:** 1887_240707 **Date:** 18 – 22 October 2027 **Location:** Singapore **Fees:** 6500 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.