

	KIT for Engineering Innovation Training Programs	Address: 8 Riyad Shams - 8th area - Nasr city Website: www.kit-egy.com Phone: 01012000780 – 01012000760 Email: info@kit-egy.com
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Course Title	Visual Inspection (VT 1+2)
Product Sector	C: Castings, T: Tubes, incl. fl at products for the manufacture of welded tubes and tubes, W: Welded Products , F: Forgings, WP: Rolled Products
Category	DIN EN ISO 9712 Non-Destructive Testing (NDT)
Course Number	KIT-ISO 250
Duration	5 Days
Certificate	Expert for Personnel of non-destructive testing according to DIN EN ISO 9712:2022-09 with TUV Rheinland Certified Qualification
Exams Elements	1- General Exam: 40 Questions (MCQ) 2- Specific Exam 2.1-Multi sectors 30 Questions (MCQ) 2.2-One Sector 20 Questions (MCQ) 3- Practical Exam: Shall passed for at least 2 specimens & reporting 4- Procedure Exam

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Day 1	Day 2	Day 3	Day 4	Day 5
Welcome, introduction, organization, instruction, qualification, certification	Knowledge test 1 followed by Discussion (discussion), Repeat of the previous day	Knowledge test 2 followed by a knowledge test Meeting (discussion), repetition of the previous day	Knowledge test 3 followed by Discussion (discussion), Repeat of the previous day	Knowledge test 4 followed by Meeting (discussion), repetition of the previous day
History, technical terms, Physics. Basics of optics, lighting parameters	Contrasts, construction of endoscopes, cold light sources, impression plates for surface inconsistencies and roughness	Typical weld seam, casting, forging and rolling defects, fracture surfaces, macro grinding	Test execution with various measuring equipment, product knowledge: typical weld seam defects	Creation of a test instruction according to the task
Lens System, Camera Systems, Lighting, Irradiation, Image and Light Guides	Typical test execution according to test instructions, registration and admissibility limits	Preparation of test reports, traceability of documents	Standards: DIN EN ISO 5817, 6520-1, 10042, 13919-1, 17635, 17637, DIN EN 13018, AD 2000 HP 5/1	Discussion of the test instructions, welding technology: various welding methods and welding positions
Practical course: Presentation of the test equipment and execution of the test	Practical Course: Exercise 1 Test execution according to test instructions – weld seams	Practical course: Exercise 3 Test execution according to test instructions – weld seams	Preparation of test reports, Internship: Examination according to task	Internship: Testing according to various standards – weld seams / macro sections
Internship: Inspection according to test instructions – weld seams	Practical course: Exercise 2 Test Execution According to Test Instructions – Castings	Practical course: Exercise 4 Test Execution According to Test Instructions – Forgings	Internship: Testing according to various standards – weld seams	Internship Testing according to various standards – weld seams / fracture surfaces