

	<b>KIT for Engineering Innovation Training Programs</b>	<b>Address:</b> 8 Riyad Shams - 8th area - Nasr city <b>Website:</b> www.kit.egy.com <b>Phone:</b> 01012000780 – 01012000760 <b>Email:</b> info@kit-eg.com
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<b>Course Title</b>	<b>Penetration Test (PT 1+2)</b>
<b>Product Sector</b>	<b>C</b> :Castings , <b>T</b> :Tubes, incl. fl at products for the manufacture of welded tubes and tubes , <b>W</b> :Welded Products , <b>F</b> :Forgings , <b>WP</b> :Rolled Products
<b>Category</b>	DIN EN ISO 9712 Non-Destructive Testing (NDT)
<b>Course Number</b>	KIT-ISO 251
<b>Duration</b>	5 Days
<b>Certificate</b>	Expert for Personnel of non-destructive testing according to DIN EN ISO 9712:2022-09 with TUV Rheinland Certified Qualification
<b>Exams Elements</b>	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, organization, instruction, qualification and certification according to DIN EN ISO 9712	Knowledge test 1 followed by Discussion (discussion), Repeat of the previous day	Knowledge test 2 followed by a knowledge test Discussion (discussion), Repeat of the previous day	Knowledge test 3 followed by Discussion (discussion), Repeat of the previous day	Knowledge test 4 followed by Discussion (discussion), Repeat of the previous day
Physical basics, adhesion, cohesion, emulsification, capillary, vapor pressure, flash point	Sensitivity classes, test equipment, environmental protection, safety conditions, batch test certificates	Product knowledge Typical weld, casting, forging and rolling defects	Preparation of test instructions	Standards: DIN EN ISO 3452-1 to -6, DIN EN ISO 3059
Preparation and application of the test procedure, penetrants, cleaners, developers (test systems)	Preparation and application of the test method, penetrants, cleaners, developers	Preparation of test reports, traceability of documents, safety data sheets, batch test certificate	Preparation of test reports, traceability of documents, safety data sheets, batch test certificate	Standards: DIN EN ISO 23277, AD 2000 HP 5/3; Typical weld seam defects
Sensitivity classes, automatic test systems, electrostatic systems, control bodies 1 and 2	Practical Course: Exercise 1 Test execution according to test instructions – weld seams	Practical course: Exercise 3 Test execution according to test instructions – weld seams	Internship: Testing according to test instructions – daylight testing	Internship: Inspection of various weld seams incl. test report and evaluation of the indications
Practical course: Presentation of test equipment, test equipment and execution of the test	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 test instructions – fluorescent testing	Practical course: Testing and evaluation of various weld seams, Final discussion