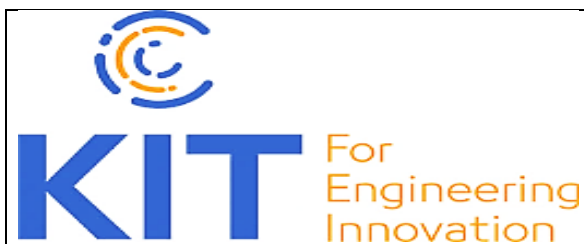


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Course Title	Magnetic Testing (MT 1+2)
Product Sector	C :Castings , T :Tubes, incl. fl at products for the manufacture of welded tubes and tubes , W :Welded Products , F :Forgings , WP :Rolled Products
Category	DIN EN ISO 9712 Non-Destructive Testing (NDT)
Course Number	KIT-ISO 252
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, 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 Meeting (discussion), repetition 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
History, technical terms, Physics. Basics, magnetism, field lines, elementary magnets	Combined fields (phase shift), demagnetization, reference body 1+2, test benches	Product knowledge Typical weld, casting, forging and rolling defects	Combined fields (phase shift), demagnetization, reference bodies 1 and 2; Test benches	Implementing standards: DIN EN ISO 9934-1 to -3, DIN EN ISO 17638
Hysteresis curve, alternating field, direct field, field direction, field and current flow, induction	High-current generators, degaussing devices, visibility conditions, UV radiation, test instructions	Preparation of test reports, traceability of documents, safety data sheets, batch test certificate	Test Instruction: Preparation of test instructions; Test reports, safety data sheets	Assessment standards: DIN EN ISO 23278, AD 2000 HP 5/3; Typical weld seam defects
Practical course: Equipment presentation, permanent magnets, direct field, alternating field	Practical Course: Exercise 1 Test execution according to test instructions – weld seams	Practical course: Exercise 3 Test execution according to test instructions – weld seams	Practical course: Inspection of various weld seams according to test instructions (daylight)	Practical course: Testing and assessment of various weld seams according to standards
Practical course: Field strength meter, lux meter, UV meter, control body, UV lamps	Practical course: Exercise 2 Test Execution According to Test Instructions – Castings	Practical course: Exercise 4 Test Execution According to Test Instructions – Forgings	Practical course: Testing of various weld seams according to test instructions (fluorescent)	Internship: Testing and assessment of various weld seams according to standards; Final discussion

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