

	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
--	---	--

Course Title	Radiographic test (RT 1)
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 253
Duration	9 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

	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
--	---	--

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, radiation, dose and dose rate	Radioactive substances, gamma radiation, photo, Compton and pair formation effect	Dose rate constant, half-life and tenth value time, half-life and Tenth of a value layer	Exposure diagrams for X-ray systems, isotopes	Mounting geometry, testing technology according to DIN EN ISO 17636-1 – weld seam inspection
Formation of X-rays and gamma rays	Construction of implements, collimators	Darkroom Technology, Developers, Fixers, Final Water, Drying	Film system classes, metal and salt foils, image quality test specimens	Testing technology according to DIN EN ISO 17636 – weld seam testing
Construction of single-tank and multi-tank systems, panels	Practicality: X-ray Facilities	Internship: Darkroom	Practical course: Radiographic inspection of weld seams according to specifications	Practical course: Radiographic inspection of weld seams according to DIN EN ISO 17636-1
DC and AC voltage systems	Practical course: Gamma equipment	Internship: Preparing for X-ray images	Practical course: Radiographic inspection of weld seams according to specifications	Practical course: Radiographic inspection of weld seams according to DIN EN ISO 17636-1

	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
--	---	--

Day 6	Day 7	Day 8	Day 9	
Knowledge test 5 followed by Discussion (discussion), Repeat of the previous week	Knowledge test 6 followed by Discussion (discussion), Repeat of the previous day	Knowledge test 7 followed by Meeting (discussion), repetition of previous day	Final test followed by a final test. Meeting (discussion)	
Testing technology according to DIN EN 12681-1 – Casting testing	Product knowledge Typical weld seam and casting defects	Test reports, control of image quality and redaction, evaluable areas	Final test followed by a final test. Meeting (discussion)	
Testing technology according to DIN EN 12681-1 – Casting testing	Film viewers, blackening measuring devices, image quality test specimens for blurs	Identification systems, document traceability	Special techniques, filmless radiography, final meeting	
Practical course: Radiographic testing of castings according to DIN EN 12681-1	Practical course: Radiographic inspection of weld seams according to DIN EN ISO 17636-1	Practical course: Exercises in DIN EN ISO 17636-1	Practical course: Radiographic inspection of weld seams according to DIN EN ISO 17636-1	
Practical course: Radiographic testing of castings according to DIN EN 12681-1	Practical course: Radiographic testing of castings according to DIN EN 12681-1	Practical course: Exercises in DIN EN 12681-1	Practical course: Radiographic testing of castings according to DIN EN 12681-1	

	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
--	---	--

Course Title	Radiographic test (RT 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 254
Duration	10 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

	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
--	---	--

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, radiation, dose and dose rate	Radioactive substances, gamma radiation, photo, Compton and pair formation effect	Dose rate constant, half-life and tenth value time, half-value and tenth value layer	Creation of exposure diagrams for X-ray systems, isotopes	Mounting geometry, testing technology according to DIN EN ISO 17636-1 – weld seam inspection
Formation of X-rays and gamma rays	Construction of implements, collimators	Darkroom Technology, Developers, Fixers, Final Water, Drying	Film system classes, metal and salt foils, image quality test specimens	Testing technology according to DIN EN ISO 17636-1 - Weld seam testing
Construction of single-tank and multi-tank systems, covers, filters	Practicality: X-ray Facilities	Internship: Darkroom, Film Processing Control	Practical course: Determination of luminance (viewing devices)	Practical course: Radiographic inspection of weld seams according to DIN EN ISO 17636-1
DC and AC voltage systems	Practical course: Gamma equipment	Internship: Preparing for X-ray images	Practical course: Testing of blackening measuring devices	Practical course: Radiographic inspection of weld seams according to DIN EN ISO 17636-1

	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
--	---	--

Day 6	Day 7	Day 8	Day 9	Day 10
Knowledge test 5 followed by Discussion (discussion), Repeat of the previous week	Knowledge test 6 followed by Discussion (discussion), Repeat of the previous day	Knowledge test 7 followed by Meeting (discussion), repetition of previous day	Knowledge test 8 followed by Meeting (discussion), repetition of previous day	Final test followed by a final test. Meeting (discussion)
Testing technology according to DIN EN 12681-1 – Casting testing	Product knowledge Typical weld seam and casting defects	Test reports, control of image quality and redaction, evaluable areas	Film viewing – weld seam films, casting films	Final test followed by a final test. Meeting (discussion)
Testing technology according to DIN EN 12681-1 - Casting testing	Film viewers, blackening measuring devices, image quality test specimens for blurs	Evaluation of castings according to ASTM catalogs	Special techniques, filmless radiography, stereo technology, carousel recordings, magnification technology	Disposal of chemicals, environmental protection, final meeting
Practical course: Radiographic testing of castings according to DIN EN 12681-1	Evaluation of weld seams according to DIN EN ISO 10675-1 /-2, AD 2000 HP 5/3	Practical course: Exercises for assessment according to ASTM	Practical course: Radiographic inspection of weld seams according to DIN EN ISO 17636-1	Practical course: Observation of radiographic images with error evaluation
Practical course: Radiographic testing of castings according to DIN EN 12681-1	Evaluation of weld seams according to DIN EN 12952-6, 13445-5, 13480-5	Practical course: Exercises for the evaluation of weld seams	Practical course: Radiographic testing of castings according to DIN EN 12681-1	Practical course: Observation of radiographic images with error evaluation