

	<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-egy.com
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<b>Course Title</b>	<b>Ultrasonic test- time of flight diffraction (UT-TOFD) level 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 261
<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) Repetition of the previous day	Knowledge test 2 followed by a knowledge test Discussion (discussion), Repetition of the previous d	Knowledge test 3 followed by a knowledge test Discussion (discussion), Repetition of the previous day	Knowledge test 4 followed by a knowledge test Discussion (discussion), Repetition of the previous day
Introduction of Principles of TOFD	Depth calibration of Setting PCS, Setting on calibration block	Encoder Calibration and Location measurement: Encoder calibration	Flaw Length measurement, Encoder calibration, Location measurement, Length measurement	TOFD ISO 10863, Selecting Beam intersection Point , Setting scan sensitivity
Introduction of Diffraction Process	Depth calibration of Acquiring data, Depth calibration	Encoder Calibration and Location measurement : Location measurement	Location measurement, Length measurement	TOFD parameters: Selection of TOFD parameters
TOFD Probes , Probe Selection ,Probe frequency, Probe dia	Flaw Height Measurement: Calibration Measurement Measurement on thicker samples	Encoder Calibration and Location measurement: Length measurement	TOFD ISO 10863 Probe Selection	TOFD dead zone, Probe, PCS
Presentation of test equipment and execution of the test	Presentation of test equipment and execution of the test	Presentation of test equipment and execution of the test	Presentation of test equipment and execution of the test	Presentation of test equipment and execution of the test