

Announcement of Re-Examination for Certification of Persons in Ultrasonic Testing Level-I (UT Level-I) as per ISO/IEC 17024:2012

CeSP is pleased to announce re- examination for the first batch of Ultrasonic Testing Level-I (UT Level-I) with details as below;

#	Description	Date/ Detail if any
1	Detail of Certification Scheme	Ultrasonic testing Level-I (UT Level-I)
2	International Standards/Applicable regulations/guides approved/curriculum	ISO-9712:2012
	Re-Examination Fee	Pak Rs. 2000/-
3	Last Date of Fee Deposit	24 th March, 2015
4	Date of Examination	25 th -26 th Mar, 2015
5	Venue for Examination	CeSP Office House # 14, St 95, Sector I-8/4 Islamabad
6	Source for Receipt of application	By Courier/ Registered Mail

“Exam Syllabus for Ultrasonic Testing Level-I (UT Level-I)”

1. General Knowledge

- 1.1 Non Destructive Testing (NDT)
- 1.2 Materials
- 1.3 Processes and defects

2. Terminology, Physical Principles and Fundamentals of Ultrasonic

- 2.1 Mechanical Wave Propagation
- 2.2 Basic concept mechanicals waves
- 2.3 Acoustic impedance
- 2.4 Ultrasonic waves and their types
- 2.5 Reflection and transmission of ultrasonic waves
- 2.6 Piezoelectric effects, types and characteristics of piezoelectric transducers
- 2.7 Ultrasonic Probes
- 2.8 The ultrasonic beams

3. Testing Techniques and their Limitations

- 3.1 Pulse eco technique
- 3.2 Trough transmission method
- 3.3 Methods of coupling
- 3.4 Testing and automatic, ultrasonic testing systems
- 3.5 Times of flight diffraction (TOFD)

4. Ultrasonic Equipments

- 4.1 Components of an ultrasonic flaw detector
- 4.2 Working of the ultrasonic flaw detection system
- 4.3 Scan presentation

- 4.4 Decibel or dB unit
- 4.5 Analog and digital thickness meters
- 4.6 Monitor
- 4.7 Electric distance/amplitude correction

5. Calibration of the Test System

- 5.1 Introduction
- 5.2 Calibration block
- 5.3 Range calibration

Instructions for Candidates

1. Bring Original CNIC for Examination
2. Candidates will bring their own non-programmable calculator during examination.
3. With the prior approval of the Certification Committee the candidate may use his own NDT apparatus for a practical examination.
4. Any candidate who, during the course of examination, does not abide by the examination rules, shall be excluded from further examination for a period of one year.

For further inquiries please contact;

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Scheme Manger

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Proposed by
(Scheme Mgr)

Date:

Approved by
(CEO, CeSP)

Date: