

## Traning

### NDT Training

#### INTRODUCTION

The Atomic Energy Authority (AEA) is a statutory body established by the Atomic Energy Authority Act No. 19 of 1969 to promote the application of Nuclear Technology in Sri Lanka. The AEA commenced its Non-Destructive Testing (NDT) programme in 1981 to promote NDT technology in the country for training and qualification of NDT personnel and for provision of NDT services to the Industry.

The International Atomic Energy Agency (IAEA) has been active in promotion of NDT technology on a global scale by publishing a syllabi for NDT training courses - IAEA TEC DOC 628 “Training guidelines of NDT personnel” and it has been adopted in training NDT personnel in Sri Lanka. AEA functions as the focal point in Sri Lanka to the IAEA.

The personnel trained by the AEA-NDT Section are eligible to apply for certification undertaken by the Certification Body for NDT(CBNDT) in accordance with the ISO 9712-International Standard for training and certification of Non-destructive testing personnel (Link to CBNDT web page).

NDT is a tool to detect defects and is a means of improving safety, reliability and productivity to achieve efficient and cost-effective operations and quality assurance in many large and medium scale industrial organizations in the Island. In the past two decades more than 2500 Sri Lankan NDT personnel have been trained in five methods of NDT (Radiography, Ultrasonic Testing, Magnetic Particle Testing, Eddy Current Testing and Liquid Penetrant Testing) by the AEA. Fully qualified and experienced resource personnel have been conducted these courses.

#### COURSE OBJECTIVE

The main objective of NDT Testing courses is to develop human resources in NDT to meet the demand of the major industries such as Metal Fabrication, Aerospace, Petrochemical and Refinery, Ship-building, Concrete structures and many other Construction / manufacturing industries. These courses are conducted to make eligible the participants to apply for certification at three separate Levels as Level 1, Level 2 and Level 3.

The Level 1 training courses are aimed at providing participants with a fundamental knowledge of theory and practice of the NDT method to enable them to set-up and calibrate test equipment and apply appropriate test procedures.

At Level 2, participants will gain a comprehensive theoretical and practical knowledge to interpret and evaluate the test results, develop test procedures and judge the validity of a test technique.

The personnel who obtain Level 3 certification will be capable of assuming full managerial responsibility of a test facility and staff, establishing techniques and procedures, interpreting codes, specifications and standards.

#### WHO SHOULD ATTEND?

These training programmes will be beneficial for NDT personnel, Quality Assurance / Quality Control Inspectors, Technicians, Welders, Trainees, Engineers and Surveyors in the industrial fields such as Metal Fabrication, Aerospace, Oil – refinery and Petrochemical, Ship – Building / Repair and many other construction and manufacturing industries.

#### NDT Training Course Contents:-

- Radiographic Testing (RT)
- Ultrasonic Testing (UT)
- Magnetic Particle Testing (MT)
- Liquid Penetrant Testing (PT)

• Eddy current Testing (ET)

Non-Destructive Testing (NDT) Training Programmes for the year 2013

(Tentative Work Schedule)

M eth od	Pe rio d
Eddy Current Testing - Level 1	11th -22nd February
Magnetic Particle Testing –Level 2	18th – 29th March
Liquid Penetrate Testing –Level 1	29th April – 10th May
Ultrasonic Testing – Level 2	01st – 19th July
Level – 3 (RT or MT)	September
Radiographic Testing-Level 2	04th -22nd November

Further Details, Contact

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Organization Information.

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Atomic Energy Board

The Atomic Energy Board (AEB) of Sri Lanka is a Statutory Body functioning under the Ministry of Power and Energy which was established by the Sri Lanka Atomic Energy Act No.40 of 2014.Radiation and Radioisotope Technology has a

wide range of applications in many fields that can make a significant contribution to the development of medical, agricultural, industrial, energy and environmental sectors in Sri Lanka. The Atomic Energy Board (AEB) has the responsibility of facilitating the utilization of this technology in the above-mentioned sectors in Sri Lanka.

### New Act of Sri Lanka Atomic Energy

The ATOMIC ENERGY AUTHORITY (AEA) which was established by the Sri Lanka Atomic Energy Authority Act, Number 19 of 1969, has been repealed and two institutions – The Sri Lanka Atomic Energy Board and The Sri Lanka Atomic Energy Regulatory Council, have been established by the Sri Lanka Atomic Energy Act, No. 40 of 2014. The new Act was published as a Supplement to Part II of the Gazette of the Democratic Socialist Republic of Sri Lanka of November 07th, 2014.

Sri Lanka Atomic Energy Act, No. 40 of 2014 certified on 04th November, 2014, empowers the Sri Lanka Atomic Energy Board (AEB) to carry out activities to promote and encourage the use of Nuclear Science and Technology for national development purposes; while the Atomic Energy Regulatory Council for the regulation of practices involving ionizing radiation, the safety and security of sources and the Non- Proliferation of nuclear weapons and the safeguards.

The Sri Lanka Atomic Energy Board permits the beneficial and peaceful applications of nuclear science and technology in health, industry, environment and agriculture, for national development within Sri Lanka.

The Sri Lanka Atomic Energy Regulatory Council ensures adequate protection of individuals, society and the environment now and in the future, against the potentially harmful effects of ionizing radiation and for the safety and security of radiation sources, by the establishment and maintenance of a regulatory control system, including the adoption of standards, licensing system, inspection and enforcement to govern all practices involving ionizing radiation.

The New Act fulfills obligations of the government of Sri Lanka under relevant international instruments in the field of nuclear energy entered into by Sri Lanka, and in particular the Treaty on the Non-Proliferation of Nuclear Weapons and the Safeguards Agreements. The new Act came into operation on 1st January 2015.

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