EIN 102 : CALIBRATION OF SURVEY METER

Introduction:

A calibration determines the relationship between the instrument response/reading and a quantity of interest. Organizations that use radiation survey instruments or electronic dosimeters are required by law to perform annual instrument calibration checks to ensure that they operate accurately. Periodic calibration and standardization of radiation and protection survey instruments are done to insure correct/valid radiation readings. It is also a regulatory requirement for radiation workers to use only operable and pre-calibrated survey instruments in their work with radioactive materials.

Objective:

- To standardize the gamma source and x-ray beam based on ISO x-ray reference radiation
- To learn the right procedures in calibration and measuring the estimation of uncertainties of calibration factors
- Acquiring proper techniques and procedures in dealing with the radiation detection equipment and will be able to analyse the data measurement

Content:

- Standardization of X-ray beam e.g. beam alignment, beam profile and HVL measurements based on the ISO X-ray reference radiation.
- Standardization of protection level gamma sources and 60Co tele therapy unit.
- Calibration of radiation protection instruments and therapy level dosimeters
- Maintenance of measurements uncertainties
- Reporting of calibration results.
- Quality Assurance in SSDL
- Quality management system according to the ISO/IEC 17025
- Maintenance of secondary standards.
- Experiment on survey meter and power supply

Methodology

- Lecture
- Practical
- Demonstration

Who Should Attend

Radiation protection officer (RPO), radiation protection supervisor (RPS), safety officer, radiation worker, technicians, laboratory assistant, supplier of radiation equipments and those who are involved and interested in calibration of survey meter

Your Investment

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