Government of India
Bhabha Atomic Research Centre
Radiological Physics & Advisory Division
CT & CRS, Anushaktinagar, Mumbai - 400 094

Ref: BARC/RP&AD/NG-143/ 432 /2017 February 16, 2017

Training cum Certification Course on Radiation Safety Aspects of Nucleonic Gauges (NG - 143)
February 27 – March 06, 2017; Venue: Room No: 414, CT & CRS, Anushaktinagar, Mumbai – 400 094

A. Lectures

Topic		Faculty
Basic Radiation Physics (1)	:	Narendra Rawat
Interaction of Radiation with Matter (1)	:	Vandana Shrivastava
Radiation Quantities & Units (1)	:	Rupali
Principles of Radiation Detectors (2)	:	Subhalaxmi Mishra
Radiation Monitoring Instruments & Measurements (1)	:	Sridhar Sahoo
Biological Effects of Ionizing Radiation (1)	:	Usha Yadav
Operational Exposure Limits (1)	:	Munish Kumar
Radiation Hazard Evaluation & Control (3)	:	R. S. Vishwakarma
Orphan Radiation Sources & Potential Radiological Threats (1)	:	**RSSD, BARC**
Types of Nucleonic Gauges (2)	:	Ravi Chilkulwar
Safety Standards for Design of Nucleonic Gauges (1)	:	**AERB**
Regulatory Aspects of Radiation Safety (1)	:	**AERB**
Unusual Occurrences (1)	:	**AERB**
Procedure of Transport of Radiation Sources (1)	:	**AERB**
B. Group Discussion	:	R. S. Vishwakarma/Sridhar Sahoo
C. Practical Demonstration		
Inverse Square Law & Radiation Shielding	:	R. S. Vishwakarma + Arghya C
Radiation Monitoring Instruments	:	P. K. Kale
D. Written & Viva-voce examinations	:	Examination Committee
E. Convenor, Board of Examination	:	T. Palani Selvam
F. Course Co-ordination	:	T. Palani Selvam

D Datta 16.2.2017
(D. Datta)
Head, RP & AD

Distribution: All faculty members

CC: Dr. A. U. Sonawane, Head, RSD, AERB – *Requesting for nominating officers for delivering lectures and for participation in evaluating the candidates*

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Schedule of Training cum Certification course on Radiation Safety Aspects of Nucleonic Gauges (NG-143)
February 27 – March 06, 2017; Venue: Room No: 414, CT & CRS, Anushaktinagar, Mumbai – 400 094

Date/Time	10:00 - 11:00 hrs	11:30 - 12:30 hrs	12:30 - 13:30 hrs	14:30 - 15:30 hrs	15:45 - 16:45 hrs
27-02-2017 **Monday**	Admission Formalities	Basic Radiation Physics	Interaction of Radiation with Matter	Radiation Quantities & Units	Principles of Radiation Detectors (1)
28-02-2017 **Tuesday**	Biological Effects of Ionizing Radiation	Operational Exposure Limits	Principles of Radiation Detectors (2)	Radiation Monitoring Instruments & Measurements	Radiation Hazard Evaluation & Control (1)
01-03-2017 **Wednesday**	Types of Nucleonic Gauges (1)	Types of Nucleonic Gauges (2)	Radiation Hazard Evaluation & Control (2)	Radiation Hazard Evaluation & Control (3)	Procedure of Transportation of Radiation Sources
02-03-2017 **Thursday**	Regulatory Aspects of Radiation Safety	Safety Standards for Design of Nucleonic Gauges	Unusual Occurrences	Discussion (AERB) Forms & Procedures	Discussion
03-03-2017 **Friday**	Orphan Radiation Sources & Potential Radiological Threats	Practical Demonstration **(Inverse Square Law & Radiation Shielding)**		Practical Demonstration **(Radiation Monitoring Instruments**	
06-03-2017 **Monday**	Written Examination **10:00 – 11:30 hrs**	Viva-Voce			

Certificate Distribution: Tentatively at 18:00 hrs on Monday March 06, 2017