

Training for Safehandling of Radiation and Radioisotopes and X-ray Machines for Beginners in Tohoku University

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Training for safehandling of radiation and radioisotopes for beginners has been conducted twice a year from 1977 in Tohoku University. The contents of lectures and practices are shown in Table 1. In 1993 the training was performed for 475 persons. The departments to which they belong are given in Table 2.

Training for safehandling of X-ray machines and electron microscopes began from the end of 1983. The training is scheduled to be held twice a year at the same time as that for safehandling of radiation and radioisotopes. Only lectures are given and not practices. The contents of the lectures and the distributions of trainees are shown in Tables 3 and 4, respectively.

Table 1. Contents of lectures and practices for safehandling of radiation and radioisotopes in 1993.

<u>Lectures (one day)</u>	
Radiation physics and measurements	1.5 (hours)
Chemistry of radioisotopes	1.0
Radiological protection ordinance	1.0
Effects of radiation on man	1.0
Safehandling of radioisotopes	1.5
VTR for safehandling of radiation and radioisotopes	2.0
<u>Practices (one day)</u>	
Treatment of unsealed radioactive solution	
Measurements of surface contamination and decontamination	
Measurements of gamma rays and beta rays	

Table 2. Distribution of trainees for safehandling of radiation and radioisotopes in 1993.

Department	Staff	Student	Total
Faculties			
Medicine	45	67	112
Dentistry	0	9	9
Pharmacy	2	37	39
Science	5	91	96
Engineering	2	27	29
Agriculture	5	90	95
Research Institutes	15	80	95
Total	74	401	475

Table 3. Contents of lectures for safehandling of X-ray machines and electron microscopes in 1993.

Safehandling of X-ray machines	1.5 (hours)
Radiological protection ordinance	1.0
VTR for safehandling of radiation and radioisotopes	1.0

Table 4. Distribution of trainees for safehandling of X-ray machines and electron microscopes in 1993.

Department	Staff	Student	Total
Faculties			
Medicine	1	6	7
Science	2	33	35
Engineering	1	61	62
Agriculture	0	1	1
Research Institutes	15	94	109
Total	19	195	214