



Medical & Scientific Services

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**TO: TRAINING OFFICER**

## **X-RAY ANALYSIS SAFETY COURSE**

The course is appropriate for personnel using x-ray analysis equipment. In particular the nature of X-ray hazards is outlined, how protection might best be afforded when working with X-ray analysis equipment, appropriate working techniques to minimise the radiation doses and legal obligations.

The course has been approved by the Radiological Council and fulfils the necessary training requirements for personnel before a license to use an X-ray analysis machine will be granted, under the Radiation Safety Act WA 1975 and is appropriate for the Northern Territory. A closed book multiple choice test and a short answer test conclude the course a pass mark of at least 60% is required to apply for a license. It is a requirement under the Radiation Safety Act 1975 that XRA equipment be registered and the apparatus and its use complies with the NHMRC Code of Practice for Protection Against Ionizing Radiation Emitted from X-ray Analysis Equipment (1984).

The course will comprise of lectures on basic physics of X-rays (production, interactions with matter, measurements, units), hazards from X-ray equipment (acute, chronic, non radiation), safety procedures (interlocks, warning lights, shielding, enclosures, maintenance) and regulations (registration of equipment, licences of individuals, RSOs, working rules). Assessment will take the form of an in-class open book test.

<b>Timetable:</b>	Basic Physics of X-rays	30 min
	Hazards from X-ray Equipment	30 min
	Tea break	10 min
	Safety Procedures and Regulations	30 min
	Radiation Units, Biology	30 min
	Test, multiple choice	60 min

**Course Notes:** Will be provided prior to the course

**Fee:** \$250 + \$25 gst

**Contact and booking:** **Jonathon Thwaites**  
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*Please circulate and post this on your training notice board or tearoom, thank you.  
Courses can be arranged on request.*