Radiation Protection Course for companies dealing with recycling, disposal and processing of scrap materials

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Member States shall ensure that workers potentially exposed to orphan radioactive sources should be:

- advised and trained in the visual detection of sources and their containers;
- informed of basic facts about ionising radiation and its effects;
- informed of and trained in the actions to be taken on site in the event of the detection or suspected detection of a source.
Radiation Protection Training Award (Strahlenschutz-Leistungsabzeichen)

- established in Austria half a century ago;
- became nationwide success
- “Orphan Source Management Course” has been developed as part of the additional training
- has to be revised now!

approx. 1963: Beginning of the Radiation Protection Training Award in Seibersdorf.
since 2013...

„Radiation Protection Course for companies dealing with recycling, disposal and processing of scrap materials“ provides:

- basic theoretical knowledge (50 %)
- practical exercises for workers (50 %)

Duration:
- 2 days (16 hours)
Content - theoretical knowledge

- Basics facts about
  - physics of ionizing radiation
  - radiation protection and dosimetry
- Legal aspects
- Radiation accidents
- Measurement devices/techniques
Content - Practical exercises

Practical exercises

- Measurement techniques/devices
Content - Practical exercises

Portal Monitoring

Left: Exploranium
Right: Yantar 2L
Content - Practical exercises

Radioactive sources...

Level indicator
(370 MBq Cs-137;
110 MBq Co-60)

Display device
(500 kBq Ra-226;
~ 50 µSv/h at contact)

Pipeline with mineral residues containing Ra-228sec

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Content - Practical exercises

Correct behavior at radioactive findings

Protection/Cordoning the area

Inform responsible authorities

Authorities initiate further steps
Conclusions – Lesson learned

- Hands-on exercises with real sources and detection systems supports:
  - Awareness building
  - Self confidence and safety work
- Clear procedures – clear responsibilities
  - As basis for efficient risk reduction
  - Enhanced problem solving capacity at companies
Questions?