

## License Profile: Industrial Radiography: NUREG 1556 Vol 2, Rev 1 (2016)

NRC regulation: [10 CFR 34](#)      Texas regulation: [25 TAC §289.255](#)



### RSO qualifications

**Education:** N/A

**RSO Training:** 40-hour RSO ([10CFR 34.43](#))

**Experience:** Qualified radiographer w/ 2000 hrs hands-on experience with radiography device, instruments, and sealed sources

**Radiographer's assistant qualification:** Hands-on experience under supervision of radiographer, transportation trng, licensee-specific trng, annual rad safety refresher

**Facilities:** Source/camera storage, permanent radiographic installation (shielded room)

### Radiation Safety Program Components

**Dosimetry:** Radiographer and assistant (dose of record, direct-reading dosimeter, and alarming dosimeter)

**Instrumentation:** Ionization chamber(s) and/or energy-compensated GM (6-mo cal)

**Surveys:** ([10CFR 34.49](#)) Survey camera and guide tube after each exposure

**Sealed source inventory and leak testing:** Semi-annual (sources), quarterly (DU shield)

**Program audit:** Annual (internal or external auditor)

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**Packaging, Transportation, Shipping:** Training required every 3 years for all personnel transporting sources on public roads

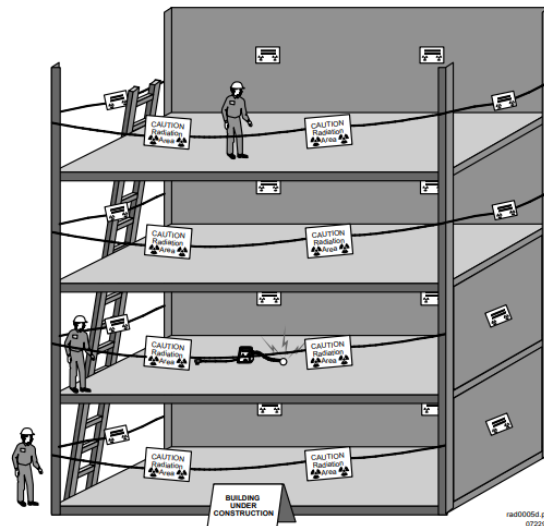
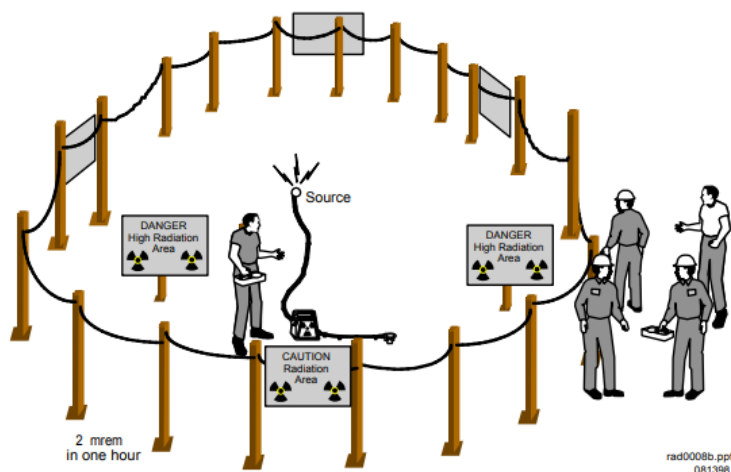
**Radioactive package receiving:** Required to have SOP

**Radioactive materials accountability:** Inventory every 6 months; sign sources in and out when they are removed from storage room

**Other considerations:** Sources can be dangerously radioactive; it is essential that sources are secured against loss or theft at all times

### Records retention

| Record                       | Retention                                | Record    | Retention                |
|------------------------------|------------------------------------------|-----------|--------------------------|
| Receipt records              | 3 years                                  | Inventory | 3 years                  |
| Source transfer              | 3 years                                  | Disposal  | Until license terminated |
| Important to decommissioning | Until site released for unrestricted use | Dosimetry | Until license terminated |



*Example radiography setups*

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Visit [www.ntanet.net](http://www.ntanet.net) for more radiation safety training and consulting resources.