



Course Outline/Syllabus for APNGA Radiation Safety Officer (RSO) Course

Total Course and Certification Training Time: 8 hours
Total time includes APNGA Training Manual reading and video lessons as follows:

Course Training Segments:

Intro

Why an RSO Class, APNGA Website, Regulatory Bodies, Authorized Training, Training Class Interaction, Training Manual, Course Contents

Senior Management and RSO Commitment to ALARA

Radiation Safety Officer (RSO)

Description, Duties, RSO Article, ALARA Philosophy, Shielding, Time, Containment, Distance, Inverse Square Law, Commitment, RSO Responsibilities, Personnel Monitors, Dosimetry, Control Dosimetry, Dosimetry Rules, Occupational Exposure Limits, Leak Tests, Inventory, Radiation Survey Meters

Agencies, Licensing, Regulations, and Recordkeeping

Mission, Specific License, CFR and Agreement State Regulations, 49 CFR, 10 CFR (Parts 2, 19, 20), 10 CFR (Parts 21, 30, 71), 10 CFR (Parts 150, 170, 171), Access to CFRs, Enforcement, RSO Responsibilities, RSO Training Responsibilities, Training Criteria, RSO Acknowledgement, Personnel Monitoring, Reciprocity, Storage, Leak Testing and Inventory, Gauge Maintenance, Gauge Transport, Gauge Operating Procedures, Emergency Procedures, Investigations, Self-Reporting, Recordkeeping, License and Regulations, Training Records, Notice to Employees Poster, Dosimeter Records, Gauge Receipts, Service, Repair, Calibration, Leak Test Records, Daily Utilization Logs, IAEA Special Form Certificates, SSD Sheets, License Application Package, Labels, Type "A" Package Test Results, Survey Meter Calibration Records, Radiation Safety Program Key Components, Gauge Operating Procedures, Emergency Procedures, Annual Audits, Transport Documents, Reciprocity, Decommissioning and Transfer, Gauge Documents Package, Storage Surveys, Media Handouts, License Application

Radiation Safety Program

Overview, Audits and Inspections, Safety Program Blueprint (APNGA), Organization and Scope, RSO Responsibilities, Training and Instruction to Workers, Radiation Survey Instruments, Gauge Inventory, Personnel Dosimetry, Public Dose, Operating and Emergency Procedures, Leak Tests, Gauge Maintenance, Transportation, 3rd Party Auditors, Notification and Reports, Posting and Labeling, Decommissioning, Bulletins and Information Notices, Special License Conditions or Issues, Deficiencies and Corrections, Evaluation of Other Factors, Senior Management and RSO Commitment, ALARA, Storage and Security, Constant Surveillance

Annual Audits

Overview, Audit History, Audit Checklist, Organization and Scope, Training and Instruction, Radiation Survey Instruments, Gauge Inventory, Personnel Radiation Protection, Public Dose, Operating and Emergency Procedures, Leak Tests, Transportation, Independent Survey Measurements, Notification and Reports, Posting and Labeling, Decommissioning Documents, Bulletin and Information Notices, Special License Conditions or Issues, Deficiencies and Corrective Actions, Evaluation of Other Factors, Completion of Audit

Storage, Security, and Protecting the General Public

Storage, Storage Boundaries, Shielding, Half-Life Value Layers, Capacity and Control, Security, Clipboards, Shutter Check, Temporary Storage, Service and Repair Providers, Member of Public (MOP) Storage Survey, MOP Discussion, MOP Limits for Unrestricted Areas, MOP- Vehicles and Temporary Storage, Permanent Facility Physical Surveys, MOP Calculations for Unrestricted Areas, Annual Public Dose Limit, Radiation Level Data, Inverse Square Law (with examples), Using Dosimetry Data to Determine Maximally Exposed Individuals MOP, MOP Dosimetry Justification, MOP Dosimetry Attachments, MOP Environmental Monitoring Data, Multiple Badges, Occupational Worker Dosimetry Data,

USDOT HAZMAT Training

Overview, General Awareness, Special Formed Sealed Sources, Certificate of Competent Authority, Function-Specific Training, HAZMAT Employees, Safety Training, ALARA, Operating Procedures, Security and Storage, Checklists, Handling, Gauge Case, HAZMAT Risks, Transporting Gauges, Regulations, Recordkeeping, Training Requirements, 49 CFR Regulations, Shipping Modes, Shipper Responsibilities, Type "A", Class 7 Radioactive Materials, Communications, Labels, Markings, Yellow Radioactive II, Paperwork and Documents, Bill of Lading Documents, Emergency Response Sheet, Emergency Numbers, Private Carrier/Common Carrier, Ground/Air Transport Requirements, Shipper Certification Statement, Overpacks, Improperly Prepared Packages, Placards, Transportation Security, Tamper Evident Seals, Tunnel and Bridge Restrictions, Driving and Parking Rules, Reciprocity, Temporary Storage, Damage During Transport, Reportable Incidents, Incidents/Accidents, Radioactive Substances, USDOT Inspections and Fines, Return to Inventory, Document Retention

Gauge Disposal and Transfer

Overview, Documents

Decommissioning or Terminating Your Gauge License

Overview, Process and Requirements

Inspections and Violations

Inspections, Format, Objectives, Requirements, Focus Elements, Past Performances, Examples of Violations

Gauge Operations and Maintenance

Manufacturers, Hands-on Training by RSO for Gauge Workers, Calibration

Conclusion

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