

8-HOUR NORM/TENORM RADIATION SAFETY OFFICER REFRESHER (TRANSPORTATION FOCUS) COURSE OUTLINE

- Section 1.0 PREPARATION**
 - 1.1 Department of Transportation Regulations and Requirements
 - 1.2 Basic Steps for Shipping Class 7 Radioactive Materials
 - 1.3 Radiation
 - 1.4 NORM/TENORM Radionuclides
 - 1.5 ALARA Principle
 - 1.6 Hazards
 - 1.7 Radiation Units and Prefixes
 - 1.8 Gamma Spectroscopy Laboratory Analysis

- Section 2.0 DETERMINATIONS**
 - 2.1 Exemption Limits
 - NORM/TENORM HAZMAT Determination Flowchart™
 - 2.2 Exempt Activity Concentration Limit 10X Exemption
 - 2.3 Collecting Values for the Exempt Activity Concentration Limit and Exempt Activity Concentration for the Consignment Limit
 - Federal Register 49 CFR 173.436 Exemption Tables
 - 2.4 Determine if the Material is Considered Radioactive Per DOT

- Section 3.0 SHIPPING CATEGORIES**
 - 3.1 The Shipping Category "V"™
 - NORM/TENORM HAZMAT Shipping Category Flowchart™
 - 3.2 Limited Quantity – UN2910
 - Federal Register 49 CFR 173.435 Exemption Tables
 - 3.3 Low Specific Activity (LSA) – UN2912
 - 3.4 Surface Contaminated Object (SCO) – UN2913
 - 3.5 Tentative Shipping Category

- Section 4.0 SHIPPING METHODS**
 - 4.1 Shipping Methods Requirements
 - 4.2 Transport Index
 - 4.3 Labels for Overpacks
 - 4.4 Exclusive Use Shipments – LSA or SCO
 - 4.5 Removable Contamination Levels

- Section 5.0 TRANSPORT**
 - 5.1 Packages
 - 5.2 Federal DOT Shipping Paper Requirements
 - 5.3 State-specific Transportation Requirements
 - 5.4 Federal DOT Exemption for Scrap Metal (DOT-SP 10656)
 - 5.5 Documentation
 - Emergency Response Guidance
 - Exclusive Use of Vehicle Instructions
 - Exclusive Use of Water Transport Vessel Instructions





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Tentative DOT Shipping Category Page
EPA Hazardous Waste Manifest
Louisiana NORM Waste Manifest
Louisiana NORM Waste Manifest Instructions
Federal DOT Exemption for Scrap Metal (DOT-SP 10656) Form
Oilfield Tubing Standard Scale Weight Chart
Worksheet Activity
Worksheet Answers

WRITTEN EXAM

