

## 8-HOUR TRANSPORTATION OF NORM/TENORM 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
    - Federal DOT Shipping Paper Requirements
    - State-specific Transportation Requirements
    - Federal DOT Exemption for Scrap Metal (DOT-SP 10656)
  - 5.2 Documentation
    - Emergency Response Guidance
    - Exclusive Use of Vehicle Instructions
    - Exclusive Use of Water Transport Vessel Instructions
    - Tentative DOT Shipping Category Page
    - EPA Hazardous Waste Manifest
    - Louisiana NORM Waste Manifest





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## **8-HOUR TRANSPORTATION OF NORM/TENORM COURSE OUTLINE**

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**

