

DOT General & Security Awareness Training

49 CFR Regulatory Crosswalk

Curriculum Modules 1-10 mapped to 49 CFR §172.704(a)(1) & §172.704(a)(4)

Scope: This crosswalk demonstrates that the curriculum covers DOT General Awareness/Familiarization and Security Awareness training required for all hazmat employees, and orients learners to the core HMR they must recognize and navigate in daily work.

Module 1: Orientation & Regulatory Framework

Satisfies §172.704(a)(1) by introducing the HMR (49 CFR Parts 171-180), who must be trained (§171.8 "hazmat employee"), employer responsibilities (§172.702), and training timing (§172.704(c): initial within 90 days; recurrent at least every 3 years). Introduces §172.704(a)(4) Security Awareness expectations and employee roles.

Module 2: Hazardous Materials Table (HMT)

Satisfies §172.704(a)(1) through hands-on use of §172.101: proper shipping name, UN/NA ID, class/division, packing group, label codes, special provisions (§172.102), packaging columns 8A-8C, air quantity limits (Col. 9) and vessel stowage (Col. 10).

Module 3: Classification & Hazard Communication

Satisfies §172.704(a)(1) by familiarizing learners with the nine hazard classes and key classification rules in Part 173 (e.g., flammable liquids §173.120; gases §173.115). Covers subsidiary risks and how classification drives labels/placards/packageing.

Module 4: Packaging & Markings

Satisfies §172.704(a)(1) by explaining UN specification markings and performance standards (§178.503; §178.601) and the requirement to follow and retain closure instructions (§178.2(c); §173.22). Covers general marking rules (§172.304) and common special marks: Limited Quantity (§172.315), Hazardous Substance "RQ" (§172.324), Marine Pollutant (§172.322), and Elevated Temperature "HOT" (§172.325).

Module 5: Labels - Selection & Placement

Satisfies §172.704(a)(1) by teaching label selection (per §172.400 and HMT Col. 6), durability/specs (§172.407), and placement including adjacent primary/subsidiary labels within 6 in. (§172.406).

Module 6: Placarding



Satisfies §172.704(a)(1) by covering general placarding triggers and Tables 1 & 2 (§172.504), bulk packaging placarding, visibility/display and size/specifications (§§172.516, 172.519), and the proper use of the DANGEROUS placard for mixed Table 2 loads (§172.521).

Module 7: Shipping Papers

Satisfies §172.704(a)(1) by teaching the basic description order (§172.202), additional description requirements (§172.203), shipper's certification (§172.204), and emergency response information/phone requirements (§§172.602, 172.604). Orients drivers/carriers to highway shipping paper rules (§177.817).

Module 8: Handling, Storage & Emergencies

Satisfies §172.704(a)(1) by familiarizing learners with highway segregation and incompatibilities (§177.848) and what emergency response information must accompany shipments (Subpart G: §§172.602-172.604).

Module 9: Security Awareness

Meets §172.704(a)(4) by training employees to recognize security risks and respond to possible threats; explains when In-Depth Security training applies and the existence of Security Plans (Subpart I: §§172.800-172.802).

Module 10: Wrap-Up & Assessment

Reinforces employer duty to ensure employees are trained and tested (§172.702) and documents training per §172.704(d) (record contents and retention).

Result: Modules 1-10 collectively provide the General Awareness/Familiarization foundation and Security Awareness content required by §172.704(a)(1) & (a)(4), with consistent reference to the HMR sources employees must know and use in practice. Employers remain responsible for any additional Function-Specific (§172.704(a)(2)), Safety (§172.704(a)(3)), and if applicable In-Depth Security (§172.704(a)(5)) training and records (§172.704(d)).