


07 ENVIRONMENTAL AND HAZARDOUS MATERIALS

FIGURE 7.3 A typical aboveground oil storage tank.



PEARSON Introduction to Automotive Service James Halderman, Darrel Deiter © 2013 Pearson Higher Education, Inc. Pearson Practice Hall - Upper Saddle River, NJ 07458

07 ENVIRONMENTAL AND HAZARDOUS MATERIALS

FIGURE 7.4 Washing hands and removing jewelry are two important safety habits all service technicians should practice.



PEARSON Introduction to Automotive Service James Halderman, Darrel Deiter © 2013 Pearson Higher Education, Inc. Pearson Practice Hall - Upper Saddle River, NJ 07458

07 ENVIRONMENTAL AND HAZARDOUS MATERIALS

FIGURE 7.5 Typical fireproof flammable storage cabinet.



PEARSON Introduction to Automotive Service James Halderman, Darrel Deiter © 2013 Pearson Higher Education, Inc. Pearson Practice Hall - Upper Saddle River, NJ 07458

07 ENVIRONMENTAL AND HAZARDOUS MATERIALS


FIGURE 7.6 Using a water-based cleaning system helps reduce the hazards from using strong chemicals.



PEARSON Introduction to Automotive Service James Halderman, Darrell Dester © 2013 Pearson Higher Education, Inc. Pearson Practice Hall - Upper Saddle River, NJ 07458

07 ENVIRONMENTAL AND HAZARDOUS MATERIALS

FIGURE 7.7 Used antifreeze coolant should be kept separate and stored in a leakproof container until it can be recycled or disposed of according to federal, state, and local laws. Note that the storage barrel is placed inside another container to catch any coolant that may spill out of the inside barrel.



PEARSON Introduction to Automotive Service James Halderman, Darrell Dester © 2013 Pearson Higher Education, Inc. Pearson Practice Hall - Upper Saddle River, NJ 07458

07 ENVIRONMENTAL AND HAZARDOUS MATERIALS


FIGURE 7.8 This red gasoline container holds about 30 gallons of gasoline and is used to fill vehicles used for training.



PEARSON Introduction to Automotive Service James Halderman, Darrell Dester © 2013 Pearson Higher Education, Inc. Pearson Practice Hall - Upper Saddle River, NJ 07458

07 ENVIRONMENTAL AND HAZARDOUS MATERIALS


FIGURE 7.9 Air conditioning refrigerant oil must be kept separated from other oils because it contains traces of refrigerant and must be treated as hazardous waste.



PEARSON Introduction to Automotive Service James Halderman, David Dwyer © 2013 Pearson Higher Education, Inc. Pearson Prentice Hall - Upper Saddle River, NJ 07458

07 ENVIRONMENTAL AND HAZARDOUS MATERIALS

FIGURE 7.10 Placard near driver's door, including what devices in the vehicle contain mercury.



PEARSON Introduction to Automotive Service James Halderman, David Dwyer © 2013 Pearson Higher Education, Inc. Pearson Prentice Hall - Upper Saddle River, NJ 07458

07 ENVIRONMENTAL AND HAZARDOUS MATERIALS

FIGURE 7.11 The Environmental Protection Agency (EPA) Hazardous Materials Identification Guide is a standardized listing of the hazards and the protective equipment needed.

Hazardous Materials Identification Guide (HMIG)

HEALTH	FLAMMABILITY	REACTIVITY	PROTECTIVE EQUIPMENT	HAZARD RATING AND PROTECTIVE EQUIPMENT					
				Health	Flammable	Reactive			
4 - Extreme	3 - Serious	2 - Moderate	1 - Slight	4 - High Toxic: May be fatal or severely injurious. Special precautions for protection required.	4 - Extremely flammable (LFL or LFLH less than 1.0% in air)	4 - Highly reactive (may be violent or explosive)	A	E	I
3 - Toxic: Fatal ingestion or skin contact.	2 - Moderately flammable: May be harmful if inhaled or absorbed.	1 - Slightly flammable: May cause slight irritation.	0 - Minimal	3 - Irritant: High Toxic (LFL or LFLH less than 1.0% in air)	3 - Flammable (LFL or LFLH less than 1.0% in air)	3 - Moderate reactivity (may be violent or explosive)	B	F	J
2 - Harmful: May be harmful if inhaled or absorbed.	1 - Slightly flammable: May cause slight irritation.	0 - Minimal	0 - Minimal	2 - Irritant: High Toxic (LFL or LFLH less than 1.0% in air)	2 - Flammable (LFL or LFLH less than 1.0% in air)	2 - Moderate reactivity (may be violent or explosive)	C	G	K
1 - Slightly toxic: May cause slight irritation.	0 - Minimal	0 - Minimal	0 - Minimal	1 - Slightly toxic: May cause slight irritation.	1 - Flammable (LFL or LFLH less than 1.0% in air)	1 - Slightly reactive (may be violent or explosive)	D	H	X
0 - Minimal: All organisms have a slight degree of toxicity.	0 - Minimal	0 - Minimal	0 - Minimal	0 - Minimal: All organisms have a slight degree of toxicity.	0 - Non-flammable (LFL or LFLH less than 1.0% in air)	0 - Minimal reactivity (may be violent or explosive)			

Protective Equipment

Health	Flammable	Reactive
A	E	I
B	F	J
C	G	K
D	H	X

PEARSON Introduction to Automotive Service James Halderman, David Dwyer © 2013 Pearson Higher Education, Inc. Pearson Prentice Hall - Upper Saddle River, NJ 07458
