Correlation of

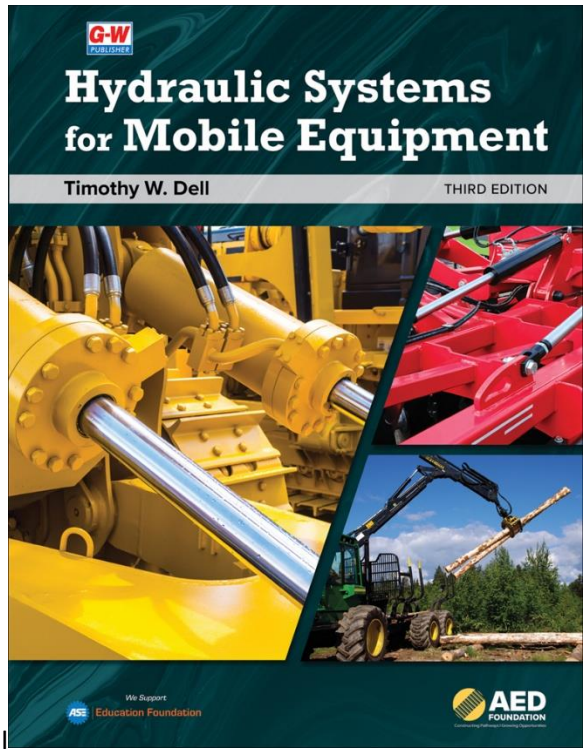
***Hydraulic Systems for Mobile Equipment,* Dell**

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to

ASE Education Foundation Medium/Heavy Truck Program Standards: Foundational Skills

The following chart correlates the *Hydraulic Systems for Mobile Equipment* ©2027 textbook to the Foundational Skills Section of the 2025 ASE Education Foundation Medium/Heavy Truck Program Standards.



Tasks	Textbook Content
Shop and Personal Safety	
1. Identify general shop safety rules and procedures.	2–17
2. Utilize safe procedures for handling of tools and equipment.	2–17, 127–128, 279–280
3. Identify and use proper placement of floor jacks and jack stands.	N/A
4. Identify and use proper procedures for safe lift operation.	N/A
5. Utilize proper ventilation procedures for working within the lab/shop area.	12

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Correlation of *Hydraulic Systems for Mobile Equipment* to AED Standards for Construction Equipment Technology: Safety—page 2

Tasks	Textbook Content
6. Identify marked safety areas.	13
7. Identify the location and the types of fire extinguishers and other fire safety equipment; demonstrate knowledge of the procedures for using fire extinguishers and other fire safety equipment.	3–6, 10–12
8. Identify the location and use of eye wash stations.	6
9. Identify the location of the posted evacuation routes.	17
10. Comply with the required use of safety glasses, ear protection, gloves, and shoes during lab/shop activities.	2–3
11. Identify and wear appropriate clothing for lab/shop activities.	2–3
12. Secure hair and jewelry for lab/shop activities.	2–3
13. Demonstrate awareness of the safety aspects of vehicle systems that can operate automatically when the vehicle is off, such as supplemental restraint systems (SRS), electronic brake control systems, and electrified vehicle systems.	10–12
14. Demonstrate awareness of the safety aspects of high voltage circuits (such as high intensity discharge (HID) lamps, ignition systems, injection systems, electrified vehicle powertrain, etc.).	10–12
15. Locate and demonstrate knowledge of safety data sheets (SDS).	6
16. Identify and use proper procedures for lock-out/tag-out.	12
17. Maintain service bay and shared work area cleanliness and organization.	6, 13, 250–251, 261–264, 267–268
Tools and Equipment	
1. Identify tools and their usage in medium/heavy truck applications.	523–545
2. Identify standard and metric designation.	32–33
3. Demonstrate safe handling and use of appropriate tools.	2–17, 523–545
4. Demonstrate proper cleaning, storage, and maintenance of tools and equipment.	2–17, 523–545

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Correlation of *Hydraulic Systems for Mobile Equipment* to AED Standards for Construction Equipment Technology: Safety—page 3

Tasks	Textbook Content
5. Demonstrate proper use of precision measuring tools (i.e., micrometer, dial-indicator, dial-caliper, torque wrench, etc.).	523–545
Preparing Vehicle for Service	
1. Identify information needed and the service requested on a repair order.	546–561
2. Identify purpose and demonstrate proper use of covers and mats.	N/A
3. Demonstrate use of the three C's (concern/complaint, cause, and correction).	546–561
4. Review vehicle service history.	546–561
5. Complete work order to include customer information, vehicle identifying information, customer concern, related service history, cause, and correction.	N/A
Preparing Vehicle for Customer	
1. Ensure vehicle is prepared to return to customer per school/company policy (floor mats, steering wheel cover, etc.).	N/A

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