

Diesel Technology: Safety Skills

Instructional/Task Analysis

Related Information: What the Student Should Know

Application: What the Student Should Be Able to Do

Unit 1: General Safety

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| 1. Terms and definitions | 19. Subscribe to a safety pledge |
| 2. Ways of developing a good safety attitude | 20. Apply general safety principles to the school and workplace |
| 3. Expectations for a safe environment at school or work | 21. Determine correct fire extinguishers to use for various situations |
| 4. Basic types of emergencies | 22. Lift a heavy object properly |
| 5. Severe weather guidelines | 23. Operate a fire extinguisher |
| 6. Steps to follow in case of a bomb threat | |
| 7. How to conduct a fire evacuation | |
| 8. Personal protective equipment | |
| 9. Personal safety guidelines | |
| 10. Guidelines for maintaining a safe work area | |
| 11. Causes of back injuries | |
| 12. Lifting and moving items safely | |
| 13. Components of a fire | |
| 14. Classifications of fires and their fuel sources | |
| 15. Types of fire extinguishers | |
| 16. Fire extinguisher symbols | |
| 17. Steps in using a fire extinguisher | |
| 18. Ways to prevent fires | |

Unit 2: Workplace Safety

1. Terms and definitions
2. Federal agencies that regulate hazardous materials and hazardous waste
3. OSHA's role in workplace health and safety
4. Hazard communication
5. Information on a chemical label
6. Purposes of a material safety data sheet
7. Characteristics of a hazardous material

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Unit 2: Workplace Safety (continued)

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| 8. Ways hazardous materials can enter the body | 21. Interpret a material safety data sheet |
| 9. Short-term and long-term health effects from exposure to hazardous materials | 22. Compile a list of hazardous materials found in your shop and provide additional information on the most common materials |
| 10. Hazardous material diamond classification system | 23. Apply the safety color codes to diesel technology shops |
| 11. Hazardous materials that may be found in the diesel technology shop | 24. Identify workplace safety violations |
| 12. Hazardous waste products associated with the diesel technology shop | 25. Complete an individual student shop safety inspection |
| 13. Guidelines for storing and disposing of hazardous materials | |
| 14. Guidelines for using flammable materials and toxic substances | |
| 15. Equipment and tool safety guidelines | |
| 16. Electrical safety guidelines | |
| 17. Colors of the federal safety color code and their uses | |
| 18. Safety tags and their color codings | |
| 19. General safety guidelines for working on vehicles | |
| 20. Overview of asbestos and guidelines for reducing asbestos exposure | |

Unit 3: First Aid

1. Terms and definitions
2. Major causes of accidents
3. Injuries that may occur in the diesel shop
4. Basic types of accident injuries
5. Steps for giving first aid
6. Times to call for emergency medical service
7. Information to give during an emergency phone call

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Unit 3: First Aid (continued)

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| 8. Legal aspects of first aid | 15. Determine basic first aid measures for given emergency situations |
| 9. Contents of a first aid box | |
| 10. Bloodborne pathogens and special first aid precautions | |
| 11. Basic first aid procedures for various emergencies | |
| 12. Steps on how to treat choking | |
| 13. Guidelines for giving mouth-to-mouth breathing | |
| 14. Basic steps for performing cardiopulmonary resuscitation | |