

Transportation 3

Apply safety principles, practices, and guidelines to the work environment. [STS.HS.35.1](#)

- a** Complete applicable safety assessment with 100% accuracy. [STS.HS.35.1.A](#)
- b** Identify and explain the use of personal protective equipment. [STS.HS.35.1.B](#)
- c** Describe proper use of a fire extinguisher. [STS.HS.35.1.C](#)
- d** Demonstrate automotive lift safety best-practices. [STS.HS.35.1.D](#)
- e** Demonstrate automotive battery safety best-practices. [STS.HS.35.1.E](#)
- f** Apply the safe use of tools, machines, and equipment in alignment with industry standards to maintain a safe workplace. [STS.HS.35.1.F](#)
- g** Describe the role of government agencies in providing a safe workplace. [STS.HS.35.1.G](#)
- h** Describe the safe and environmental disposal of fluids. [STS.HS.35.1.H](#)

Identify career opportunities in the transportation industry. [STS.HS.35.2](#)

- a** List the most common transportation careers and related fields of employment. [STS.HS.35.2.A](#)
- b** List the traits and skills employers look for in their employees. [STS.HS.35.2.B](#)
- c** Explain how to find job openings in the transportation field. [STS.HS.35.2.C](#)
- d** Explain the specialized tasks completed by each type of technician. [STS.HS.35.2.D](#)
- e** Identify the training, education, certification, and licensing requirements for various careers in the transportation industry. [STS.HS.35.2.E](#)

Identify fundamentals of transportation measurement and service information. [STS.HS.35.3](#)

- a** Measure with both customary and metric measuring systems. [STS.HS.35.3.A](#)
- b** Identify and use proper measuring tools for each task. [STS.HS.35.3.B](#)
- c** Describe the different types of service information. [STS.HS.35.3.C](#)
- d** Explain how to read shop work orders. [STS.HS.35.3.D](#)

Identify correct tools, equipment and fasteners needed to

- a** Identify common hand tools, power tools, and equipment needed for diagnosis and repair of the automobile or mobile equipment. [STS.HS.35.4.A](#)

diagnose and repair automobiles and mobile equipment. STS.HS.35.4

- b** Describe the different types of service information platforms. STS.HS.35.4.B
- c** Explain fundamentals of on-board diagnostics and scan tools. STS.HS.35.4.C
- d** Identify proper fasteners, gaskets, seals, and sealants used in transportation. STS.HS.35.4.D

Explain fundamentals of vehicle systems and principles. STS.HS.35.5

- a** Explain the principles of electricity and magnetism. STS.HS.35.5.A
- b** Explain fundamentals of engine mechanical problem diagnosis. STS.HS.35.5.B
- c** Explain fundamentals of engine top end rebuilding. STS.HS.35.5.C
- d** Explain fundamentals of engine front end service. STS.HS.35.5.D
- e** Explain fundamentals of short block service. STS.HS.35.5.E
- f** Explain fundamentals of manual transmission, clutch, and automatic transmission technology. STS.HS.35.5.F
- g** Explain fundamentals of front and rear drive train technology. STS.HS.35.5.G
- h** Explain fundamentals of heating and air conditioning. STS.HS.35.5.H
- i** Explain fundamentals of diesel injection, turbochargers, and superchargers fundamentals. STS.HS.35.5.I
- j** Explain fundamentals of wheel alignment. STS.HS.35.5.J
- k** Explain fundamentals of restraint systems. STS.HS.35.5.K