
Course Syllabus:

SAF-004 Battery Handling



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Overview

Because batteries contain chemicals, chemical reaction by-products, and can hold an electrical charge, batteries can pose a hazard to workers if they are not handled properly. Workers that operate, maintain, and recharge batteries should use caution and receive training on the proper procedures for battery handling, maintenance, storage and disposal.

Goals

This course will focus on safe handling procedures for various types of automotive batteries including lead acid, sealed lead acid or absorbed glass mat, lithium ion and lithium metal batteries. The course addresses the following elements:

- Battery Types & their Hazards
- Safety Precautions
- Safe Handling Procedures

Lesson Topics

Module 1 – Introduction

- Introduction
- Course Overview
- Course Objectives
- Navigation
- WBT Library
- Glossary
- Learning Assessments
- Additional Information

Module 2 – Battery Types & their Hazards

- Battery Types
- Lead Acid
- Sealed Lead-Acid
- Nickel-Metal Hydride
- Lithium Ion
- Lithium Polymer
- Lithium Metal
- Battery Hazards – Electrical

Materials

Computer (PC, laptop)
Internet Connection: High Speed

Requirements

You should print and maintain a copy of this course syllabus and overview on file at your facility. It is recommended that you provide a copy of this document in the event of a regulatory agency (e.g., OSHA) inspection.

Evaluation

Upon completion of the course of instruction, a comprehensive examination will be offered. In order to earn a Certificate of Completion, you must receive at least 80% on the exam. The exam is comprised of at least 10 questions, randomly selected from a database of questions and address each of the lesson topics covered in the course.

Lesson Topics – cont'd

Module 2 – Battery Types & their Hazards – cont'd

- Battery Hazards – Chemical
- Battery Hazards – Physical
- Module 2 - Learning Assessment

Module 3 – Safe Handling Procedures

- Safe Lifting Procedures
- Personal Protective Equipment (PPE)
- Safety Equipment
- Electrical Precautions
- Fire/Explosion Precautions
- Good Hygiene
- Module 3 - Learning Assessment

Final Exam Preparation

- Certification Exam Code