

ACIDS AND BASES

INSTRUCTOR'S GUIDE

MODULE OVERVIEW

This module reviews shop products containing acids and bases, hazards and health effects of exposure to acids and bases, safe working practices, and what to do if skin or eyes are splashed with corrosive liquids. Students will also learn how to evaluate an emergency eye wash, and when eye wash stations are necessary in a shop.

OBJECTIVES

When students have completed this module, they will be able to:

- Determine whether a product contains an acid or a base and identify corrosive substances.
- Explain health effects and symptoms of exposure to acids and bases.
- Identify tasks that generate exposure to acids and bases. Explain how to minimize or eliminate exposure.
- Demonstrate how to select chemical-resistant gloves.
- Know what to do if skin or eyes are splashed with corrosive liquids.
- Demonstrate how to inspect and use an eye-wash station.

CLASSROOM (20 min)

PowerPoint presentation: **Acids and Bases.pptx**

Handout: **Acids and Bases – Handout.pdf**

Instructor Tool Kit: none

LAB (20 min)

Acids and Bases - Lab Activities.pdf – Determine which products used in car detailing are corrosive, by using information in SDS; Evaluate shop's eye wash station.

HOMEWORK

- **Acids and Bases – Homework.pdf** – students read a factsheet about Hydrofluoric Acid and determine if select chemicals used at home are acids or bases and corrosive.
- **Quiz**

ADDITIONAL RESOURCES

“I want to know more” – folder – additional information on Acids and Bases

