

MODULE OVERVIEW

This module presents information on solvents and acids and bases-containing products used in collision shops. Students learn about the hazards and the health effects of exposure to these classes of chemicals. Safe practices and procedures for working with these chemicals are highlighted. Selection and use of personal protective equipment – with emphasis on gloves – are discussed. Students learn what to do if skin or eyes are splashed with corrosive liquids. Students will also learn how to evaluate an emergency eye wash, and determine 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 solvents, acids or bases.
- Explain health effects and symptoms of exposure to solvents, acids and bases.
- Identify tasks that generate exposure to solvents, acids and bases, and explain how to minimize or eliminate exposure.
- Demonstrate how to select chemical-resistant gloves and eye protection equipment.
- Know what to do if skin or eyes are splashed with corrosive liquids.
- Demonstrate how to inspect and use an eye-wash station.

CLASSROOM (15 min)

Narrated PowerPoint presentation: **Solvents, Acids and Bases – Refresher.swf**

ATTENTION:

You must have Flash Player installed before you run this presentation. Test your browser ahead of time.

Handout: **Solvents, Acids and Bases – Refresher - Handout.pdf**

LAB

none

HOMEWORK

- **Solvents, Acids and Bases – Refresher - Homework.pdf** – Students identify the ingredients and the pH of one window-cleaning product used at home, and one window-cleaning product used in the shop at school or other place of employment (if applicable).
- **Quiz – Acids and Bases**
- **Quiz - Solvents**

ADDITIONAL RESOURCES

“I want to know more” – folder – additional information on chemical-resistant gloves, latex allergies, OSHA PPE requirements, bonding and grounding of flammable liquid containers, hydrofluoric acid, emergency eye wash stations

