

## ISOCYANATES

## INSTRUCTOR'S GUIDE

### MODULE OVERVIEW

This module provides an overview of isocyanates in collision repair. It presents information on how to identify products containing isocyanates and which work tasks generate exposure. Safe practices and procedures for working with isocyanates are highlighted. Selection and use of personal protective equipment are discussed.

### OBJECTIVES

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

- Determine which products contain isocyanates using Safety Data Sheets.
- Identify tasks that generate exposure to isocyanates.
- Identify specific health effects induced by exposure to isocyanates.
- Demonstrate selection and use of gloves and respirators suitable for protection against isocyanates.

### CLASSROOM (15 min + 10 min)

PowerPoint presentations:

- **Isocyanates – Part 1- Identification and Health Effects.pptx** – 15 min
- **Isocyanates – Part 2- Control and Protection.pptx** – 10 min

Handouts:

- **Isocyanates – Part 1 - Handout.pdf**
- **Isocyanates – Part 2 - Handout.pdf**

Instructor Tool Kit: none

### LAB (10 min)

- **Isocyanates - Lab Activities.pdf** – Demonstrate the use PPE. Explain paint booth set-up and mixing room ventilation requirements.



## HOMEWORK

**Isocyanates – Homework .docx** – Students watch a 3-min video on asthma, and read a Factsheet on how to work safely with isocyanates. Students read textbook and presentation materials on Labels and MSDS from I-CAR disc WKR01-PRCD01-E, or class textbook, as assigned.

### ATTENTION!

If you are not using the I-CAR CDs, identify the corresponding chapters in your textbook. You CAN modify the “word” version of the Homework document available in the module folder to match the assignment.

- Quiz

## ADDITIONAL RESOURCES

**“I want to know more” folder** – additional information on isocyanates, work-related asthma, fatality investigation reports, and guidelines for spraying truck-bed lining insulation.

