

FULL-FRAME PARTIAL REPLACEMENT

FFR01

Properly repairing today's full-frame vehicles requires command of an array of considerations. Understanding OEM repair procedures and welding requirements for full-frame vehicles can be key, but being able to identify full-frame designs, partial replacement options and repair considerations for full frame attachments is also critical to achieving a complete, safe and quality repair. Completion of this course will be beneficial to repairers and their respective businesses. Full-frame partial replacement can result in increased savings for the shop and the vehicle owner alike. The content in this course can be applied on the job immediately following completion.

Course Content

Module 1— Full-Frame Designs

This module identifies common full-frame vehicles and provides information on full-frame construction, including how vehicles may be designed for collision energy management and strength. The module continues with a look at common types of partial replacement options and how to determine which options apply to the vehicle that is being repaired.

Module 2— Partial Replacement Options

A detailed look at welding frames and considerations for repair and replacement of welded-on mounts, brackets, crossmembers and frame accessories are provided at the opening of the second module. Real-world examples of vehicle-specific processes for partial replacement options on full-frame vehicles are also given. As the student moves through the second module, they will engage in activities, demonstrations and watch HD-quality videos. Videos include full-frame partial replacement procedures on the Ford F-150, General Motors 1500 frames, RAM 1500 and Jeep Wrangler.

Recommendations

This course covers several collision repair topics when replacing partial full-frames. It is recommended that students have a basic understanding of the collision repair process and damage analysis topics. Courses that are helpful include:

- Measuring (MEA01)
- Structural Straightening Steel (SSS01)
- Replacement of Steel Unitised Structures (SPS10)
- Sectioning of Steel Unitised Structures (SPS11)
- Corrosion Protection (CPS01)

Registration

To register for Full-Frame Partial Replacement (FFR01) click [here](#) or visit www.i-car.com.au

Course Highlights

Points: 1

Estimated Duration: 4 Hours

Format: Classroom

Meets the I-CAR training requirements for the following roles:



ESTIMATOR



STRUCTURAL TECHNICIAN



ASSESSOR

After completing this course, you will be able to:

- Understand OEM repair procedures for many current full-frame vehicles
- Identify various full-frame designs, construction methods and repair considerations
- Understand partial replacement at factory seams and sectioning options for full-frame vehicles
- Differentiate welding requirements for full-frame vs. unibody parts
- Describe repair and replacement considerations for full-frame attachments

