SECTIONING OF STEEL UNITISED STRUCTURES

SPS11

Today's vehicles are being introduced with new technology and construction materials that are more advanced and lighter weight than ever, which means repair procedures from previous generation vehicle models do not necessarily apply to current models. For repairers, this demands an understanding of proper sectioning techniques and up-to-date knowledge on new vehicle designs that can impact sectioning decisions. Understanding these important considerations can be the difference between a complete and safe repair and possibly compromising passenger safety.

This course prepares technicians with the information they need to make proper decisions for sectioning. The student will receive an overview of sectioning that includes classroom activities, props and demonstrations that illustrate detailed information on sectioning preparation and joint types. This course also explains where procedures are found and why general sectioning guidelines no longer apply.

Course Content

Module 1—Sectioning Overview

The class will open by defining sectioning, an explanation of why certain parts are replaced and the difference between sectioning and partial replacement at factory seams. Sectioning, when appropriate as a procedure, has many benefits and the instructor will present these benefits in addition to information on how today's new construction technology affects sectioning procedures.

Module 2—Sectioning Preparation

In the second module, students will participate in a classroom-based vehicle-specific sectioning activity. This portion of the class contains information on how to begin sectioning repairs, including what to do before sectioning repairs, preparing the vehicle, understanding adjacent part removal and verifying the correct replacement part. Information will also be presented on measuring for the cut line, cutting techniques, welding and working with adhesively bonded joints.

Module 3—Joint Types

As the student moves through the course, they will examine the various types of sectioning joints used by vehicle makers. Props and discussions will help demonstrate the similarities and differences between these common joints. The instructor will also discuss what is involved with finishing a sectioning repair.

Module 4—Sectioning Considerations

The final module of the class will detail many part-specific sectioning considerations, such as radiator core supports, front rails, A,B,C Pillars, rocker panels, and floor pans and rear body panels. The class will conclude with sectioning joint considerations, including cutting outer panels for access, hydroformed parts, sectioning in foam-filled areas and drivetrain removal.

Recommendations

This course covers several collision repair topics around structurally repairing today's steels, including anchoring and straightening. 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)
- Advanced High-Strength Steel (SPS07)
- Replacement of Steel Unitised Structures (SPS10)

Registration

To register for Sectioning of Steel Unitised Structures (SPS11) click here or visit www.i-car.com.au

Course Highlights

Points: 1

Estimated Duration: 4 Hours

Format: Classroom & Virtual Classroom

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

- ESTIMATOR
- STEEL STRUCTURAL TECHNICIAN
- ASSESSOR

After completing this course, you will be able to:

- Understand why general sectioning guidelines no longer apply and why I-CAR has adapted its position on sectioning
- Recognise the various types of sectioning joints used by vehicle makers
- Determine considerations for sectioning vs. complete part replacement