

Welding Training & Certification™ : Steel Sectioning (SPS05)



Course Overview

A technician's ability to properly perform sectioning procedures is important for many collision repairs. Understanding how vehicle systems respond in a collision is key to the safety of the vehicle and may impact the structural integrity, passenger safety, and even airbag timing. The ability of the technician to follow procedures is reflected in the cost and quality of the repair and, ultimately, in customer safety and satisfaction.

The content in this course pertains to collision repair professionals and offers a unique training experience for students in their own repair environment in which measuring, cutting, and welding is conducted on steel rails - similar to those of an actual vehicle repair.

After completing this course, you will have proven your ability to:

- Understand the critical nature of sectioning procedures, measuring and working with tolerances
- Verify that you are able to replace a structural component on a vehicle

One single training event can accommodate multiple technicians.

Course Content

Welding Capability & Readiness Assessment

Before instruction starts, the instructor will conduct the Welding Capability & Readiness Assessment to determine whether shop infrastructure and equipment conditions are adequate so technicians can properly perform hands-on practice and certification testing.

Instruction

Students will be provided with instruction and best practices before beginning practice. This course offers students the opportunity to demonstrate their measuring, cutting, fit-up, and GMA (MIG) welding skills on steel structural parts. Students will need to follow the instructions on the course-specific body repair manual and the instructor will coach students throughout the training.

Hands-on Practice

Students will have time to adjust and tune their welding machines, as well as successfully perform common welds on common thicknesses. Before receiving a rail from the instructor, students must pass an on-site visual and destructive test of their practice welds.

Skills Verification Test

This last part of the hands-on training measures students' skills in cutting, removing spot welds and making offset repair joints, using plug, open butt joint, and butt joint with backing welds on steel

structural parts. Working with two thicknesses of automotive grade steel – both 16-gauge and 22-gauge – students will need to measure and cut the rail at the locations specified in the course-specific body repair manual. Students will also need to successfully cut an access window without damaging the inner reinforcement.

The structural part must fit in a specially designed I-CAR fixture in order to pass the certification test. Welded parts must pass the three-dimensional measuring as well as meet minimum requirements for the weld specifications.

Students not passing the test may retake the training and test on another date and pass in order to receive the certification.

Two for the Price of One

When a technician successfully completes Welding Training & Certification: Steel Sectioning, as long as he/she has an unexpired Welding Training & Certification: Steel GMA (MIG) Welding, (which means taken and passed within the last 5 years), upon passing the Welding Training & Certification: Steel Sectioning, the Welding Training & Certification: Steel GMA (MIG) Welding automatically renews!

Tip: If a Steel Structural Technician's steel welding certification is expiring and he/she plans to achieve ProLevel 3 with the Professional Development Program within five years of less, instead of renewing the Steel GMA (MIG) Welding, consider completing the Steel Sectioning course instead.

Course Highlights

Credit Hours: 6

Estimated Duration: 8 Hours

Format: In-shop assessment, instruction, hands-on practice and certification test

Meets I-CAR® ProLevel® or annual training requirements for the following role(s):

- Estimator
- Steel Structural Technician
- Non-Structural Technician

Prerequisite: WCS03

All earned I-CAR Welding Training & Certification designations are valid for five years from the passing date.

In-Shop Course

This course is administered at your repair facility using the welding equipment that you work with regularly. **The event also includes a shop Welding Capability & Readiness Assessment**, where the Instructor will assess the shop infrastructure, equipment and coach technicians, owners or managers before the training begins.

Recommendations

This course covers complex topics and applications related to steel sectioning and welding. It is required that students have prior welding experience.

The following I-CAR training programs are also suggested for additional background.:

- Steel GMA (MIG) Welding Theory (WCS06e)
- Sectioning of Steel Unitized Structures (SPS11)
- Steel Unitized Structures Technologies and Repairs (SPS07)
- Best Practices for High-Strength Steel Repairs (SPS09)
- Measuring (MEA01)



To Register or Learn More

Visit www.I-CAR.com and select Welding Training & Certification™ located under the I-CAR Training tab, or call **888.589.3148**, Monday – Friday from 7:00 A.M. to 6:00 P.M. CST.