



# PR-01 - INTRO TO NITROGEN PLASTIC WELDING

Plastics are used all over today's vehicles and will only become more prevalent as the manufacturers use it to reduce vehicle weight to meet stringent fuel economy mandates. Technicians who know how to repair plastics will be the ones who will thrive in the future. Urethane Supply's nitrogen plastic welding course will start you down the path to mastery of nitrogen plastic welding, the latest technology for plastic repair.

At the end of this three-hour hands-on course, you will be able to do the following:

- Identify different plastic types
- Explain the basic nitrogen welding process
- Properly operate the plastic welder
- Weld a tear to the edge of the bumper
- Repair a torn slot tab
- Repair a torn flange
- Repair a torn flexible hinge tab
- Repair a thermoset polyurethane (PUR) bumper

This course is recognized under the I-CAR® Industry Training Alliance® program. Students who complete this approved training are eligible to apply for I-CAR credit hours and/or Knowledge Area recognition.

Its time to take action to improve your skills! Inquire today about scheduling a course at your location.

See the opposite side for more information.

call **800-633-3047** today to register!



**Who:** You and a Urethane Supply Company factory approved trainer.

**When:** Scheduled at your place of business at a mutually acceptable date and time.

**Where:** Usually offered in your place of business. After you register, the training manager will contact you to arrange the logistics.

**How Much:** \$400 per session, up to three people per session.

**Register Today!** Space in each class is limited to three students. Call **800-633-3047** or visit [www.urethanesupply.com](http://www.urethanesupply.com) and click on the Training link to register for a training class.



## Introduction to Nitrogen Plastic Welding (PR-01)

Nitrogen plastic welding is a relatively new technology in the automotive collision repair industry, having been initially commercialized by Urethane Supply Company in 2006. Because the technology is new, many technicians and other industry professionals are unfamiliar with it.

Nitrogen plastic welding is excellent for the repair of thermoplastics like bumper covers, headlights, underhood and interior parts. Thanks to the strength provided by the nitrogen fusion weld, you can repair damage to tabs, mounting holes, flanges, and grill bars that are impossible with two-part adhesives. Mastery of nitrogen plastic welding will increase the number of plastic parts you can repair, allowing you to make more profit.

Urethane Supply Company provides hands-on training courses that will help you properly identify, repair, and refinish automotive plastics. Urethane Supply Company's training organization is accredited by ASE-ATMC as an adult education provider and is an approved I-CAR® Industry Training Alliance® program training provider.

Credit toward I-CAR knowledge areas in certain roles as well as annual training requirements can be awarded by taking PR01, Introduction to Nitrogen Plastic Welding. Students who successfully complete this approved training are eligible to apply for I-CAR credit hour(s) and/or Knowledge Area recognition.

### Detailed Course Information:

Course Name	<b>Introduction to Nitrogen Plastic Welding - PR-01</b>
Description	An introduction to the repair of thermoplastic auto parts using hot nitrogen gas.
Training Needs	<ul style="list-style-type: none"> <li>- Many technicians are confused by the plastic identification process.</li> <li>- Use of the nitrogen welding equipment is often misunderstood.</li> <li>- Technicians who have never used the equipment need hands-on instruction to fully understand the process.</li> <li>- Many bumpers are discarded because of damage to small details areas that are repairable with the nitrogen plastic welder. The technician needs hands-on experience repairing these commonly damaged areas.</li> <li>- Many technicians are under the mistaken impression that thermoset polyurethane (PUR, the "yellow plastic") bumpers are not repairable.</li> </ul>

Training Objectives	<ul style="list-style-type: none"> <li>- Identify different types of plastic</li> <li>- Explain the basic welding process</li> <li>- Properly operate the plastic welder</li> <li>- Weld a tear to the edge of a bumper</li> <li>- Repair a torn slot tab</li> <li>- Repair a torn bumper mounting flange</li> <li>- Repair a torn flexible hinge tab</li> <li>- Repair a thermoset PUR bumper</li> </ul>
Prerequisites	No prior training course experience is necessary. All that's required is an interest in learning the subject matter.
Experience Required	Basic knowledge of body shop tools and processes is required.
Time Required	The course takes about three hours.
I-CAR Training Alliance	Yes. Students who complete this approved training are eligible to apply for I-CAR credit hours and/or Knowledge Area recognition. Students desiring I-CAR credits MUST perform all hands-on activities in the course and complete the pre- and post-test evaluations.
Location	This training may be scheduled at your body shop. It also may be scheduled by Urethane Supply Company at various locations around the country. To request a training session at your location, call 800-633-3047 or visit our website and click on "Training"
Cost	\$400 for up to three students simultaneously. Depending on location, you may need to pay travel expenses. After we receive your training request and payment, the training manager will discuss scheduling and logistics with you.

### Urethane Supply Company's Training Mission Statement:

The training organization of Urethane Supply Company seeks to provide quality, hands-on training for industry technical and management personnel, allowing our students to safely and effectively use our products to become more successful, confident, and profitable in the repair and refinish of plastic parts.

### I-CAR Training Alliance Vision:

The I-CAR® Industry Training Alliance® exists to recognize the accomplishments of training through approved training providers. All programs approved for inclusion into the Training Alliance must support the I-CAR Vision that every person in the collision repair industry has the information, knowledge and skills required to perform complete and safe repairs for the ultimate benefit of the consumer.



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