



# PLASTIC WELDING

Custom Onsite\* Masterclass:  
Hands-on Training | 6 PDUs |  
Led by Dr. Miranda Marcus

## What People Are Saying

“Dr. Marcus delivered a masterclass that changed the way we approach weld validation. Practical, precise, and tailored to us.”

— Lead Engineer, Automotive OEM

# EWI<sup>®</sup>

*We Manufacture Innovation*

Ready to Upgrade Your Team's  
Welding Expertise?

Contact us today to book your  
custom session.

✉ info@ewi.org

☎ 614.688.5152

🌐 ewi.org



## Bring the Expertise to Your Facility

Take your team's polymer welding skills to the next level with EWI's fully customizable, onsite training led by Dr. Miranda Marcus, a leading expert in plastic materials and welding science.

This 1-day masterclass equips engineers, QA managers, and technical leads with the theoretical foundations and practical applications of plastic welding.

## Course Features

- 1-Day Onsite\* Training
- 6 Professional Development Units (PDUs)
- Customized for Your Team, Industry & Equipment
- Live Q&A and Real-World Application
- Led by a PhD-level Materials Expert

## What Your Team Will Learn

This customized training covers the full spectrum of plastic welding techniques, beginning with quality evaluation and testing methods – both destructive and nondestructive – including cross-sectional analysis, CT scanning, leak testing, and mechanical testing. It then dives into the theory and application of ultrasonic, laser, thermal, and vibration welding. Participants will explore how design, processing parameters, and equipment choices impact weld quality, with guidance on optimizing joint performance using techniques such as high-frequency bonding, laser path control, heat regulation, and vibration tuning for durable, repeatable results.

## Who Should Attend?

- ✓ Design & Manufacturing Engineers
- ✓ QA/Testing Professionals
- ✓ Process Engineers
- ✓ Operations Leaders in Medical, Automotive, Electronics, and Consumer Goods

## How It Works

- 1 Schedule Your Date
- 2 We Customize Content Based on Your Needs
- 3 Our Expert Comes to You\* – No Travel Required

\* EWI can also provide courses virtually, depending on your organization's particular requirements.