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TEPS Abstract
Lincoln Electric: Introduction to Welding
October 19th-23rd, 2026

I would like to thank Dr. Frahm, Dr. Overholt, and the TEPS committee for the opportunity to attend the INTRO101 – Introduction to Welding class at the Lincoln Electric Welding Technology and Training Center. Thank you for the opportunity to advance my existing knowledge of welding processes, learn new techniques, and practice in a professional facility. It was a pleasure working with Lincoln Electric and I would not have been able to enroll in this course without all of your approval, and the Professional Improvement Program.

The week long class was designed to instruct welders in welding safety and welding techniques utilizing various processes like Shielded Metal Arc Welding (SMAW), Gas Metal Arc Welding (GMAW), Gas Tungsten Arc Welding (GTAW), and plasma cutting. Each day was started with informational demonstrations, resources, techniques, etc. What I enjoyed the most was the open shop time to practice what we learned with each process. Our class size was only six people (including my colleague Brad Wright) which allowed us to frequently ask questions and check in with our instructor Kelly Bean, who had decades of experience in the field and instructing welding at Lincoln Electric.

Not only did we have the opportunity to refine our own skills in a professional facility with top of the line equipment, but the team at Lincoln Electric made our stay special. They were generous enough to provide both Brad and I with books, reference guides, educational posters, personal protective equipment, etc. They also established a relationship with our local Lincoln Electric representative, Jeramiah Crytzer for all future school welding supply needs.

Ultimately I felt like I've grown my understanding and confidence in welding processes and feel much more prepared to help students build their own skillset going forward. I cannot express my gratitude enough for this opportunity that was awarded to me. My hope is to give students the same powerful feeling of harnessing electricity to melt metal together and provide the addicting experience of improving welding skills in a fun safe educational project based environment.

Sincerely,
Daniel Tarnowski