



GKC Consulting Company Railroad Training Course

Thermite Welding

We can provide on-site training to your welders in thermite welding of rail. This course covers joining rails together using the aluminothermic welding process; giving your welders the knowledge required to successfully weld together rails using thermite welding procedures.

- ✓ **Classroom Training**
 - History of thermite welding of rails
 - Understanding the aluminothermic welding process
 - Understanding the hazards of the welding process
 - Review of step by step process

- ✓ **Shop Training – Hands-On – Each Student will make a Weld**
 - Rail end preparation
 - Rail alignment
 - Application of thermite welding kit
 - Preheating rail ends
 - Start thermite welding process
 - Striping molds
 - Hot cutting raisers
 - Finish grinding the weld

- ✓ **Course work complies with the following standards:**
 - AWS D15.2 Recommended Practice for joining of rails by thermite welding (TW)
 - AREMA SECTION 2.5 THERMITE WELDING – RAIL JOINTS

- ✓ **Students will receive a certificate of training at the completion of the course.**

The client responsible for obtaining the necessary thermite welding kits (one per student) and tools.