



Qualification Classes **Thermal Forces[®]**
FRA 213 Track Safety Standards[®]

1-day Thermal Forces (\$350)

Track Guy Consultants has developed a new 1-day training program specifically to address Thermal Forces and CWR Adjusting. Learn how to spot areas that may have the potential for a sun kink. This may prevent derailments and help you sleep better at night while the trains are running. This course helps the attendee understand the following topics:

- ▶ How we make rail
- ▶ Flash Butt and Thermite Welds
- ▶ Review of the Track Structure
- ▶ Thermal Forces and the Calculations
- ▶ Internal Forces and how to calculate them
- ▶ Understanding and assigning Risk
- ▶ CWR Maintenance, The VerSE
- ▶ Procedure for proper Thermal Adjusting
- ▶ Maintaining Neutral Temperature
- ▶ FRA Regulations and Replacing Rail

We have many examples and do the calculations together to ensure understanding. We do problem solving and express the importance of doing it right as well as the consequences of doing it wrong. We show the audience what to look for, before that Track Buckle happens. As always, our goal is to ensure that all attendees grasp the importance of doing it right the first time. We administer a test at the end of the class for the documentation requirements.

2-day FRA Part 213 (\$700)

The Federal Railroad Administration has issued some new rules that have been in the works for a couple years. Some of the highpoints are as follows:

- ▶ A qualified person that inspects, supervises installation or adjustment or maintains CWR must complete a comprehensive Training Course and demonstrate to the owner that he understands.
- ▶ The fines have increased from \$650 to \$25,000. Willful has gone from \$27,000 to \$100,000.
- ▶ An owner of CWR must have a written CWR plan and it must be approved by the FRA.
- ▶ The owner of CWR must establish a range (working range) that causes track buckling.
- ▶ An owner must determine areas that are prone to buckles and pull-aparts.
- ▶ An owner of CWR must have a training program with written procedures and provisions for annual re-training.
- ▶ An owner must have a CWR Standards and Procedures Manual at every location of CWR Track.

The history of all this is interesting and not new. The discussions have been going on for some time. We have developed a 2-day training course that will satisfy the annual training required. We administer a test at the end of the class for the documentation requirements.

Hilton Garden Inn Orlando Airport—7300 Augusta National Dr, Orlando, FL 32822 — 407-581-4330
CWR, January 25, 2011 ————— **FRA, January 26 & 27, 2011**

Company Name _____

Address _____

Phone # _____ Contact Person: _____ E-mail: _____

Attendee Name _____ CWR FRA BOTH Amount Due: \$ _____

Attendee Name _____ CWR FRA BOTH Amount Due: \$ _____

Attendee Name _____ CWR FRA BOTH Amount Due: \$ _____

Payment: Credit Card # _____ Type _____ Exp _____ Code _____

Name and Address must match Credit Card *** Please Print ***** Total to CC: \$**

Track Guy Consultants

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Training is an investment, not an expense



Thermal Forces
and
FRA 213 Track Safety Standards



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