



## GKC Consulting Company Railroad Training Course

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### FRA 213 Track Safety Standards - Track Inspection -

This course is designed to train your employees to comply with FRA 213 TSS while inspecting your railroad. Course is conducted in the classroom, and in the field on your track. Successful graduates will be able to perform inspections as required by FRA §213.7 for Class 1-5 Track.

- ✓ **The Railroad and the FRA**
  - Relationship of the railroad to the FRA
  - Inspection requirements
  - Creation of inspection records
  - Planning inspections – when
  - Classes of track
  - Restoration or renewal of track under traffic
  - Measuring track not under load
  - Track inspection defined
  - Intent of FRA Standards
  - How to use Part 213
  - Remedial actions
- ✓ **The Roadbed**
  - How to apply TSS to drainage
  - How to inspect ballast
  - How to inspect roadbed vegetation
  - How to inspect crossties
  - How to measure track gage
  - Schedule required track inspections
- ✓ **Track Geometry**
  - Inspect tangent and curved alinement
  - Determine the maximum allowable speed on curves
  - Inspect track surface:
    - Runoff
    - Profile
    - Deviation in crosslevel
    - Difference in crosslevel
    - Harmonics
- ✓ **Track Geometry – Field Trip**
- ✓ **The Rail**
  - Visually inspect rails
  - Understand railroad's responsibility to provide policy for maintaining CWR procedures
  - Inspect rail joints
  - Inspect for torch cut rail
  - Inspect tie plates
  - Inspect rail fastening systems
- ✓ **Special Trackwork**
  - Inspect turnouts:
    - Inspect switches
    - Inspect frogs
    - Inspect guard rails
  - Inspect track crossings (diamonds) and turnouts
  - Inspect special trackwork
  - Inspect derails
- ✓ **Special Trackwork – Field Trip**
- ✓ **Course Summary & Review**
- ✓ **Final Exam**