Topics:

Key Least Squares Concepts

- Least Squares vs Traverse adjustment
- Field Data acquisition procedures (aliases, /# options)
- Redundancy/Degrees of Freedom
- Network Summary/ chi square test
- View Network examples

Instrument Standard Errors and Pre Analysis

Understanding Standard Errors

Conventional Networks

- Looking at key manual entry codes
- Looking at inline options
- "Fixity"
- Using a conventional convertor

Troubleshooting Strategy:

"Sort Residuals by size" to identify outliers

Managing STAR*NET Projects

- Project and Company Settings
- Instrument Library
- · Geoid Modeling
- Coordinate Systems
- Custom Output files

GPS Data

- **Opus Station Reports**
- RTK Vectors
- Importing Vectors

Troubleshooting Strategy:

Finding blunders using data off/on inline options

Leveling data

Importing DNA data

Troubleshooting strategy:

Finding Blunders with "Loop Check"

Combining Data

Combine Levelling, Conventional, GPS and scanning data