



## 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

- Practising 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

- Importing Vectors
- Minimally constrained adjustment
- Over Constrained Adjustment

### Troubleshooting Strategy:

- Finding blunders using .GPS FREE options

### Leveling data

- Importing DNA data

### Troubleshooting strategy:

- Finding Blunders with "Loop Check"

### Combining Data

- Combine Levelling, Conventional, GPS and scanning data