

Instrument Checks

Civil Engineering

Field checks that catch an error early.

A calibration certificate is not a substitute for a field check.

Level

Two-peg test for collimation error

Balance backsight and foresight lengths

Check the bubble is centred and stays

Verify the staff is true and readable

Keep the staff vertical, rock it if unsure

Total station

Observe on both faces for every angle

Check plummet centring over the mark

Confirm the prism constant in use

Measure a known baseline distance

Record instrument and target heights

Educational reference. Calibration intervals and permitted errors are set by the survey specification and the maker.