

Gauger2 Suite

Duration: 1 day

Synopsis

This course teaches all the core features of the Gauger2 software suite, comprised of Field, Desktop and Analysis modules. The training covers how to collect, compute and manage current meter gauging measurements and how to derive rating relationships for flow gauging stations.

Prerequisites

A working knowledge of current meter gauging techniques and a basic understanding of stage discharge relationships are assumed for this course.

Outcomes

After taking this course, delegates should be proficient at entering and editing data associated with current meter gauging, moving it to and from a field computer and using it to determine water velocities and flow. They should be able to develop stage discharge rating relationships.

Content

The course content may be adjusted to focus on the needs of participants but would normally include all of the following:

- Setting up new sites and editing existing ones, linking Gauger Desktop sites to stations in the time series database. Setting up a time series site in HydroLog4 by linking to a site in Gauger Desktop.
- Viewing and editing historic gauging data, including the individual readings taken at each vertical.
- Adding new gaugings by typing in data from field sheets.
- Adding new meters and new calibrations for old meters.
- Exporting details of gauging sites and meters to a transfer database or directly to a field computer with a serial link.
- Setting up templates so groups of stations and meters can be exported repeatedly.
- Using Gauger Field's numeric keypad to record values measured at each vertical in the cross-section. The significance of the data collected and sampling at different depths.
- Importing gauging details from a field computer that either runs Gauger Field and has stored data in a database file or runs DOS Gauger and is connected via the serial port.
- Using gauging results to calculate cross-sectional areas, water velocities and flow.
- Viewing and editing historic ratings.
- Using Gauger Analysis to develop new ratings from any defined set of gaugings. Using filters to declare and select the gaugings that should be included in the analysis and developing an equation or set of equations that define the stage discharge relationship.

Tuition uses a hands-on approach, with no more than six participants per tutor. The main features of each topic are explained using a projector, after which participants are given appropriate tasks. Exercises are used for extension and consolidation, so participants can work through a sequence of tasks that are typical of the sort of thing they may need to do with their live data.