iLinks GEOSOLUTIONS

Example Training Course Syllabus

DAY 1	DAY 2	DAY 3	DAY 4	DAY 5
Introduction Introduction & Course Overview Daily Logs & Housekeeping Project Planning	**Dimensional Control** Offsets & Lever Arms Angular Errors C-O Determination Measurement Techniques	**QINSy Online** Controller Overview Configuring the Displays Managing Display Sets Echo Sounder Settings	**Processing Manager** Structure and Philosophy User Interface Data Management File Handling	**Classroom Session-1** Review of the MBES Data Cleaning the MBES Data Creating Bathymetry Charts Creating Profiles
Survey Vessel Overview Vessel Selection Survey Sensors Selection Equipment Layout Power & Data Connections	**Systems Integration** Interfacing Requirements RS232 Serial Data TCP/IP & UDP Data Packets Time Synchronization	**QINSy Session Setup** Database Sounding Grid DTM File Formats File Splitting & Management	**Processing Tools** Data Editing Data Interpolation Chart Production Contours & Profiles Volumes Exporting your Data	**Classroom Session-2** Review of the LiDAR Data Cleaning the LiDAR Data Creating a Combine Data Set Data Exporting Data Transformations
Precise Positioning Positioning Systems GPS & GNSS / RTK / Overview Motion Sensors Heading sensors Systems Integration Planning Installation Considerations	**Systems Testing** Interface Testing Interface Troubleshooting Data Validation Timing & Synchronization	**QINSy Advanced Options** Correction sources Geo-referenced Graphics Online Quality Control Online Data Filtering Line Planning	**Practical Session - 1** Project Planning Vessel Mobilisation Positioning System Testing Survey Systems Testing SVP Profile Recording System Calibration	**Classroom Session-3** Producing a Survey Report Review of Key Points General Q & A Session Travel Arrangements Wrap - Up
Multibeam System Overview Principals of Operation MBES Models & Selection Installation Options Operational Considerations Avoiding Potential Hazards	**Systems Calibration** Water Colum Effects Speed of Sound Profiling Vertical Control & Tides MBES Calibration Methods LiDAR Calibration Methods Positioning Verification	**QINSy Calibration Routines** Importing the SVP Profile Data Collection Methodology File Conventions QINSy Validator Data Replay Functions 3D Visualization	**Practical Session - 2** Survey Plan Wide Area MBES Sweep Detailed MBES Survey LiDAR Survey MBES & LiDAR Survey Data Verification SVP Profile Recording	**Spare Session for unforeseen circumstances**
LiDAR System Overview Principals of Operation LiDAR Models & Selection Operational Considerations Installation Options	**Data Acquisition System** QINSy Console Project Management Support Folder Creating a Project Template Database Setup	**Data Processing** Viewing the Data in Qloud Standard Cleaning Tools Customized Cleaning Tools Data Export Options	**Practical Session - 3** Backing Up your Data Vessel Demobilization Equipment Checklist Positioning System De-Mob Safety Checks	**Spare Session for unforeseen circumstances**