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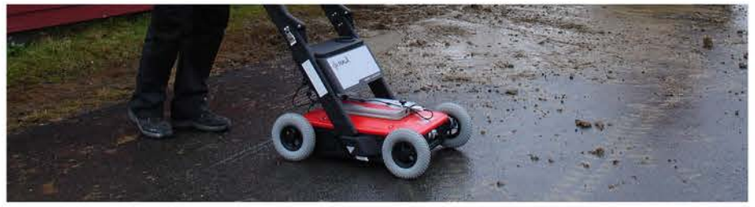


MALA

Utility Surveyor Qualification

A professional training package focusing on the location and mapping of underground services in Australia.

MALA's Utility Surveyor Qualification is a professional training package focusing on the location and mapping of underground services in Australia.

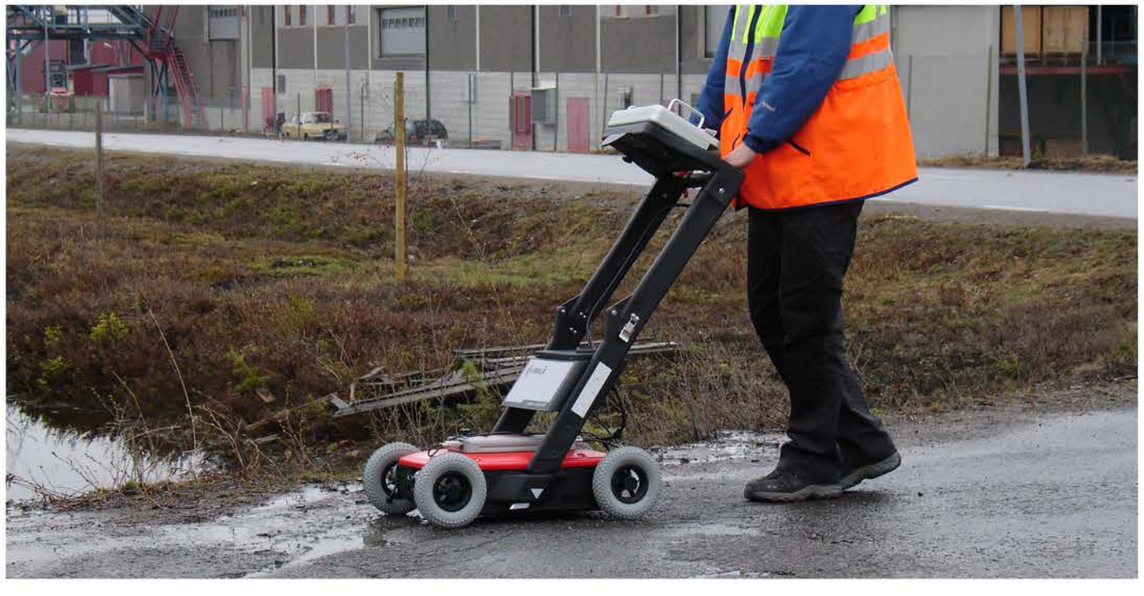
Courses are practical, 'hands-on' and are designed with a focus on the theoretical, practical, technical and regulatory skills required to use modern technologies effectively

The Utility Surveyor Qualification has been designed by utility location specialists who recognise that current industry practices are inconsistent. The courses aims to raise the standards of those currently working in the utility locating and concrete scanning industries. Additionally, the courses aim to support business development and market profile of utility surveying businesses and contractors by helping to provide a base of highly skilled and competent professionals.

The training package runs for 13 days and covers a range of units which have been written by practitioners, for practitioners. Those who successfully complete the course can be sure that they are among the best in their field.

Training is open to all. There are no barriers to entry – participants are welcome from all backgrounds including utility surveying companies, contractors, civil engineers and construction companies. Prior practical experience is an advantage but by no means a pre-requisite. Enthusiasm, ambition and an aptitude for technical and logical thinking are all that is required.

The Utility Surveyor Qualification is set to become the benchmark for knowledge and skills; a definitive way of identifying quality and professional competence.



Utility Surveyor Qualification

This course is designed for those who value professionalism, quality and expertise.

Day 1
- Introductions and course objectives
- Why locate buried utilities, the consequence of getting it wrong
- Network theory (classroom), the distribution of the various utilities from source to end user, including Electricity, Gas, Water, Waste Water, Telecom, Oil and Petroleum
- Visual site indications, looking for the "signs" of buried utilities in the area
- Utility drawings, examining the DBYD guides and getting the most from them
- Overview of locating technologies

Day 2
- Basic Electromagnetic Theory (classroom)
- Electromagnetic induction theory
- Passive signals, Power and Radio modes
- Active Modes, connection, Induction and signal clamp
- Frequencies, what, where, when
- Depth measurement theory
- Sonde theory
- Advanced EM Theory, A.C. signals and capacitance
- PME & CME electrical supplies
- Limitations and problems with EM theory

Day 3
- GPR Theory (classroom ½ day)
- GPR signal propagation
- GPR system components
- Signal frequency V's depth and resolution
- Easy locator system operation and settings
- Radargram interpretation
- GPR on site practical (1/2 day)

Day 4
- Residential site practical, applying the theory from the above classroom work

Day 5
- City Centre site practical using basic signal techniques
- Looking at the challenges of city centre surveying and using different frequencies
- Application of signals in the city centre environment

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Day 6
- Advanced EM Theory
- Current Direction
- Current Measurement
- Peak/Null theory
- Advanced depth measurement theory using peak/null comparisons
- Deep Sewer locating theory
- Cathodic Protected Pipelines
- Cathodic protection theory

Day 7
- Practical on residential road using advanced theory techniques

Day 8
- Practical in city centre environment, applying advanced theory techniques

Day 9
- CP Pipeline Practical
- Possible deep sewer location practical

Day 10
- Practical and written assessments (Possible additional time will be required on Friday if there is a overrun of the assessments)

Day 11 & 12
- Deep Sewer Location (if not completed on day 9)
- Undertake an actual survey job if possible.

Day 13
- Telstra Acreditation

Additional (for management staff)
- Local Aust. legislation to the protection of underground assets and potential legal issues

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