

COURSE TITLE: Using Test Equipment on Non-Energised Circuits to BS 7671

COURSE REFERENCE: M405 **DURATION:** 7 hours (Recommended Minimum Duration)

CERTIFICATION: M405 and M507 combined. Also available as M405 and . combined.

COURSE AIMS This course aims to provide Traffic Engineers and Installers with a theoretical understanding of IET wiring Regulations (BS 7671) and requirements of section 559, as they apply to Street Furniture.

PREREQUISITES: In order to gain maximum benefit and learning outcomes from this course there are a number of training modules, which are required before attending. A complete list of pre-course requirements is as stated in the Contents.

ASSESSMENT: A summative assessment will follow the completion of this course or group of courses.

OBJECTIVES: On completion of the course learners will:

- Assess the Hazards and Risks.
- Gain Authority to carry out testing after site isolation confirmation.
- Demonstrate the concepts of earthing, bonding and insulation as described in the regulations.
- Demonstrate the regulations concerning electrical testing.
- Use appropriate Test Equipment correctly and safely.
- State the need for non-energised Electrical Testing.
- List the tests, test equipment and test methods.
- Complete and interpret the appropriate parts of Organisation. Traffic Installation Completion Certificate.

COURSE TOPICS:

- Basic Electrical Principles.
- Electrical testing for new installations.
- Test methods and working practices.
- Using the relevant test equipment.
- Measuring resistance and associated calculations.
- The Traffic Installation completion certificate.

PRACTICAL:

To enable maximum learning and benefit from this course, there will a number of exercises. These may be both interactive and demonstrative to enhance the learning experience