

COURSE TITLE: Initial and Periodic Electrical Inspection and Testing (Public Lighting)

COURSE REFERENCE: 714 **DURATION:** 21 hours* (Recommended Minimum Duration)

COURSE AIMS: This course aims to provide operatives with the knowledge and skills required for Initial and periodic electrical inspection and testing of new, existing or refurbished installations.

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 this course. A complete list of pre-course requirements is shown in the Contents.

ASSESSMENT: A summative theoretical and practical assessment based on agreed criteria will follow the completion of this course.

OBJECTIVES: On completion of the course learners will:

- Define the purpose and difference of initial and periodic inspection and testing
- Use appropriate Test Equipment correctly and safely.
- Define the tests, test equipment and test methods.
- Carry out initial inspection and testing.
- Carry out periodic inspection and testing
- Complete an appropriate Certificate.
- Explain the reasons for an appropriate record system
- Identify appropriate action for unsatisfactory results.
- Record and report variations

COURSE TOPICS:

- Hazards and risks
- Initial and periodic testing of new, existing and replacement Highway electrical equipment.
- Test methods and working practices
- Using Electrical Test Equipment.
- Calculation of Earth Loop Impedance.
- Types of certificates used in Highway Electrical works

PRACTICAL: To enable maximum learning and benefit from this course, there will be a number of exercises. These may be both interactive and demonstrative to enhance the learning experience. The practical assessments will be carried out as identified by the HESA assessment criteria, on equipment that either accurately reflects 'real site conditions' or 'using defined' equipment that enables full coverage of the testing requirements.