

City and Guilds 3668-03

Unit 303: Level 3 Fibre Optic Cabling

Course length: 3 days including assessments

Following the completion of mandatory Units 301/302, candidates must complete one other Level 3 module to receive the full Level 3 Certificate. Unit 303 qualifies as one of three optional modules which must be completed in combination with unit 301/302 which are offered as a package.

The Unit 303 Fibre Optic Cabling course will provide attendees with an understanding of different types of fibre optic cabling commonly available in the data cabling and communications industry. This will include their uses and some of the associated standards and transmission characteristics, and expand knowledge of fibre testing methods. Candidates are assessed on this module by timed assignments.

Who Will Benefit

The Level 3 Fibre Optic Cabling City and Guilds 3668-03: 303 module is aimed at anyone who wishes to progress further than Level 2, such as those entering supervisory, design or project management roles. The Level 3 Certificate in Communications Cabling builds on installation competences and supports candidates moving into more senior roles and provides them with eligibility for an Electrotechnical Certification Scheme (ECS) Network Infrastructure card.

Gaining the full Level 3 requires the core modules (Unit **301/302**) and one of the three offered practical modules; **303** Fibre Optic Cabling, **305** Passive Optical Networks (PON), **306** Structured Cabling and Enterprise Networks.

Course Content

Attendees will learn how to:

- Describe and explain the advantages of different fibre optic types according to their specifications
- Describe the different transmitting characteristics for different types of cabling
- Evaluate and describe the transmission characteristics of types of fiber optic cable i.e. G651 (MM) G652 etc
- Describe the usage of fibre optic cables and explain operational considerations i.e. bandwidth, attenuation, nodes, splitters etc, including effects on anticipated performance
- Describe and explain the appropriate fibre optic cabling standards, both national and international
- Select and explain testing methodologies in fibre optic cabling, i.e. VLF/VLS, end face inspection (and criteria used) OLTS, OTDR, COOTDR, CD, PMD, OSA etc.

Please review accompanying document covering core units 301 & 302: Safe Working Practices and Telecom Fundamentals.

Part Number	Description
CG-FIBRE-L3	CITY & GUILDS UNIT 301/302/303 FIBRE OPTIC CABLING FULL AWARD