

Template for CBQ units

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| Unit | Fibre Telecommunications Techniques | |
| SSC Code | FIBRE | |
| SQA Code | H3BT 04 | |
| SCQF Level | 6 | |
| SCQF Credit Value | 15 | |
| Guided Learning Hours | | |
| Unit summary | | |
| Learning Outcomes The learner will: | Assessment Criteria | |
| 1 Understand the properties, structures and components included in typical fibre telecommunication networks | 1.1 Describe the different types of optical fibre 1.2 Describe the physical components required to build a fibre infrastructure 1.3 Describe the different structures used in fibre networks 1.4 Explain when different fibre network structures should be used | |
| 2 Understand safe working practices when working with optical fibre networks | 2.1 Identify key safety considerations when working with optical fibre 2.2 Identify any existing risk assessments for working with optical fibre 2.3 Explain how to dispose of redundant or damaged optical fibres | |
| 3 Know the quality standards and documentation requirements when working on the optical fibre network | 3.1 Explain the quality standards applicable for installation and maintenance work on the optical fibre network 3.2 Explain the technical documentation required before and after undertaking work on the fibre network | |
| 4 Be able to prepare and install optical fibre components in | 4.1 Prepare optical fibre components for use | |

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| exchanges and customer premises | <p>4.2 Provide fibres from a customer premises point of entry to the equipment fibre pigtails for both two-fibre and single-fibre working</p> <p>4.3 Test components before commissioning the components</p> |
| 5 Be able to build an external fibre network | <p>5.1 Prepare cables for splicing</p> <p>5.2 Manage cables on single circuit trays</p> <p>5.3 Splice fibres cables on single circuit trays</p> |
| 6 Be able to construct and re-enter a fibre closure | <p>6.1 Explain where various fibre options should be used</p> <p>6.2 Construct a fibre closure</p> <p>6.3 Re-enter an existing closure</p> |
| Additional information about the unit | |
| Guidance on approaches to assessment | Further guidance is set out in the CBQ Assessment principles developed by e-skills UK and agreed by the Joint Awarding Body Forum. |
| Details of the relationship between the unit and relevant National Occupational Standards or other professional standards | This unit is based on the e-skills UK NOS for IT professionals (PROCOM) available from www.e-skills.com/nos |
| Location of the unit within the subject/sector classification system | IT Professional |
| Name of the organisation submitting the unit | e-skills UK |