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| 1331 – One Fibre Network FTTP Strategic UG & OH Build | |  |
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Content approval

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**Version History**

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| Issue 6 | 09-May-2018 | Chief Engineer Network Engineering | Document review. Links to external sources validated/updated where appropriate. Author/Approver/Publisher details amended. References to extra large node removed from module guidance due to duplication. |
| Issue 5 | 12-Mar-2018 | Chief Engineer Network Engineering | Document review. Links to external sources validated/updated where appropriate. Author/Approver/Publisher details amended. Change of approver. Questionnaire amended to reflect current practice, pass mark amended accordingly. Module guidance & NASA checklist have been aligned. Practical score grid added to section 7. |
| Issue 4 | 22-Feb-2018 | Chief Engineer Network Engineering | Questionnaire reviewed and updated to provide more clarity to candidates |
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# Introduction

The Openreach Accreditation process is an integral part of the Openreach Network Quality Programme (OQP). It is designed to focus on the skills and knowledge of individuals who are required to work on the access network, in order to improve quality of personal workmanship.

The Accreditation process is managed on its own unique data records management system NASA, which is part of FPQ, and builds on the basic criteria that only the line manager knows what his or her people do. It is from this starting point when a manager determines a person’s skill and assigns them to that skill on NASA that the process begins.

This ISIS is reviewed and updated annually. Between reviews any changes are communicated using Access Engineering Communications (AEC).

Links to ISIS, AEC’s, Accreditation documents and other Accreditation modules can found in the

[Technical Library](https://intra.bt.com/bt/openreach/chief-engineer/network-evolution/interface-team/organisation-network_reliability_home_page/aei_library/Pages/index.aspx)

**Answers for all modules are available via the Author of the document (see above)**

In order to comply with the requirements of this Accreditation Module the Assessor must follow the procedure below

* Allow the time shown for the delegate to complete
* Explain that reference documentation can be used
* The criteria for all sections must be fulfilled in order to meet the requirements for this module

# Scope

The module target audience are engineers working on the Openreach network including BT Northern Ireland, BT Operate and External Suppliers (Contractors).

This module is an essential requirement for any Engineer/Contractor carrying out provision on FTTP strategic UG & OH Build.

It will check the delegates understanding & ability to complete provision of the underground and overhead network from Aggregation node to connectorised BT (CBT) using current working practices and quality standards.

# Description

This module consists of a questionnaire and practical assessment.

Content: This assessment will test the delegate’s knowledge of providing a Fibre network from and including the aggregation node to and including the CBT (overhead and underground)

Duration: Questionnaire 90 minutes Practical 6hrs

# Method

Questionnaire: Using reference documentation where required, the delegate will complete the questionnaire. A maximum of 90 minutes is allowed for this exercise.

Practical:

Position 1

1. Install No Drill bracket and Mobra
2. Mount Large node on Mobra
3. Introduce COF600 into large node and loop through
4. Introduce 4/7BFT
5. Mount UG CBT on pivot arm/Mobra and introduce tail into large node
6. Introduce COF215 that will feed Small/medium node
7. Install 2 x 32 splitter
8. Complete required splicing

Position 2

1. Install Small/medium node in temporary position on pole
2. Introduce COF215 feed into Small/medium node and loop through
3. Mount OH CBT on pole and introduce tail into Small/medium node
4. Install 2 x 32 splitter
5. Erect span of COF215 using correct clamp and route through and ELM
6. Erect span of COF250 using correct clamp and anti-oscillation twists
7. Complete required splicing

Testing

Light Source to be put on and testing carried out at correct CBT ports.

Using the correct tools, equipment and working practices the delegate will carry out the above task to the quality standard expected.

The Practical Assessment can be completed under live working conditions in 3 methods.

Practical: The Practical Assessment can be completed under live working conditions using one of the methods below.

* On site – During a new build.
* In a Skill Centre
* On site – During different parts of different builds.
* The assessor will use the module guidance to verify their awareness and ability to carry out the task.

# Measurement

Questionnaire: The delegate must get 80% of the answers correct.

Practical: Using the module guidance and ISIS documents for reference, the assessor will check that the delegate completes the tasks at the stages shown. The assessor must not coach more than 30% of ‘C’ markings during this assessment.

Post Assessment: Enter results on [**NASA**](http://dyl00509app02.nat.bt.com:61138/cdsd/www_startup.startup) database

ASSESSOR NOTE – Successful completion of this module will credit the Delegate with module N026, therefore the Assessor will also need to input that module onto NASA as well.

# Safety

1. If the delegate displays a disregard for, or lack of knowledge of safety, then STOP THE ASSESSMENT - re-assessment required - refer to –safety module for guidance

# Delegate’s Details

|  |  |
| --- | --- |
| Module No | AEI/ACC/N023 |
| Module ID | 1331 |
| Title | One Fibre Network FTTP Strategic UG & OH Build |
| Date |  |
| Delegate’s name |  |
| UIN/Licence No |  |
| OUC |  |
| Assessor’s name |  |
| Assessor’s UIN |  |
| Questionnaire | PASS/FAIL |
| Practical | PASS/FAIL |
| Notes |  |

Practical Score:

|  |  |  |
| --- | --- | --- |
| Total C Pointers | Total Coached | ≤ 30% Pass |
| 27 |  | ≤ 8 |

Questionnaire Score:

|  |  |  |
| --- | --- | --- |
| Total Possible | Total Correct | ≥ 80% Pass |
| 65 |  | ≥ 52 |

# Questionnaire

|  |  |  |
| --- | --- | --- |
|  | **Aggregation Node** |  |
| 1 | Which of the following TM joints would be best suited for use as an Aggregation Node?  A. Extra Large  B. Medium  C. Small |  |
|  |  | 1 |
| 2 | Which UG cable should be used for building out FTTP from an Aggregation node?  A. COF200  B. COF201  C. COF600 |  |
|  |  | 1 |
| 3 | What is the maximum tray capacity of an Extra Large TM joint?  A. 128  B. 80  C. 48 |  |
|  |  | 1 |
| 4 | What is the minimum sized joint box an Extra Large TM joint can be sited in?  A. JF2  B. JF4  C. JF6 |  |
|  |  | 1 |
| 5 | What is the item code for a TM circular port kit 7 BFT 5mm?  A. 079665  B. 08321  C. 082257 |  |
|  |  | 1 |
| 6 | On an Extra Large TM joint which port is a looped fibre cable inserted?  A. Oval port  B. Circular port |  |
|  |  | 1 |
| 7 | Would a single COF 200 feeding the last aggregation node be installed in the  A. Oval port  B. Circular port |  |
|  |  | 1 |
| 8 | Which illustration shows the correct port layout from inside an Extra Large TM joint? |  |
|  |  |  |
|  |  | 1 |
| 9 | When installing 3 x 36f ULW cables which port kit must be used?  A. Medium 4 way entry gland 088362  B. Medium entry gland 7-20mm 082322  C. Mech seal 4 way SST cable kit 088363 |  |
|  |  | 1 |
|  | **Large Node** |  |
| 10 | Is the TM large node suitable for pole mounting?  A. Yes  B. No |  |
|  |  | 1 |
| 11 | What is the maximum tray capacity of a large node?  A. 80  B. 64  C. 48 |  |
|  |  | 1 |
| 12 | What does HCSE stand for?  A. High Capacity Single Element  B. High Capacity Splitter Element |  |
|  |  | 1 |
| 13 | How many splitters can be installed in the large node?  A. 2  B. 4  C. 6 |  |
|  |  | 1 |
| 14 | What are the maximum splitter outputs of a Large Node?  A. 32  B. 64  C. 128 |  |
|  |  | 1 |
| 15 | What is the internal loop length required in a Large Node?  A. 3.6m  B. 2.7m  C. 2.5m |  |
|  |  | 1 |
| 16 | How many mid span element loops are stored in centre storage area of a TM Large?  A. 2  B. 4  C. 6 |  |
|  |  | 1 |
| 17 | What is used for loop protection when in storage?  A. Plastic sleeve  B. Yellow tape  C. No protection required |  |
|  |  | 1 |
|  | **Medium TM Node** |  |
| 18 | Where can a Medium TM Node be sited?  A. UG only  B. Pole only  C. UG or Pole |  |
|  |  | 1 |
| 19 | What is the preferred method of supporting a UG Medium TM Node in a joint box?  A. On a Mobra  B. Strapped to cable bearer  C. No support required for this joint type |  |
|  |  | 1 |
| 20 | When installing 4 x COF600 cables in a single circular port, which item code would you use to order the correct port kit?  A. 082323  B. 092760 |  |
|  |  | 1 |
| 21 | How many splitters can a Medium TM Node support?  A. 1  B. 2  C. 4 |  |
|  |  | 1 |
| 22 | Which tray is used to accommodate the incoming fibre for a second splitter in a spliced through configuration?  A. 2  B. 4  C. 5 |  |
|  |  | 1 |
| 23 | What is the temporary fix height whilst jointing on a pole?  A. 1.2m  B. 1.4m  C. 2m |  |
|  |  | 1 |
| 24 | What is the minimum distance for a pole mounted bracket below the bottom climbing step and what is the minimum height above ground for the cable loop? (choose **Two** answers)  A. 750mm  B. 650mm  C. 550mm  D. 1.8m  E. 2m  F. 3m |  |
|  |  | 2 |
| 25 | Which of the following is the correct port layout for a Medium TM Node? |  |
|  |  |  |
|  |  | 1 |
| 26 | Are small/medium TM joints suitable for use as both a splitter node and intermediate splice point?  A. Yes  B. No |  |
|  |  | 1 |
| 27 | Can a medium TM node be fitted on an eligible DNO Joint User Pole (JUP)?  A. Yes  B. No |  |
|  |  | 1 |
|  | **Small Node** |  |
| 28 | What is the minimum sized joint box a Small node can be sited in?  A. JF2  B. JF4  C. JB23 |  |
|  |  | 1 |
| 29 | How is the Small node attached to a pole?  A. Mobra  B. 2 x Straps Cable Fixing 14A 750mm from 1st climbing step.  C. Pole Mounting bracket |  |
|  |  | 1 |
| 30 | What is the maximum tray capacity of a Small node?  A. 10  B. 12  C. 24 |  |
|  |  | 1 |
| 31 | How many splitters can the Small node accommodate?  A. 1  B. 2 |  |
|  |  | 1 |
| 32 | Which tray is used to accommodate the incoming fibre for a splitter in loop cable configuration?  A. 1  B. 2  C. 3 |  |
|  |  | 1 |
| 33 | How many CBT’s can be directly spliced in the above joint (Q33)?  A. 8  B. 9  C. 10 |  |
|  |  | 1 |
| 34 | With the trays facing you what side are the input 36 fibre cables installed?  A. Left  B. Right |  |
|  |  | 1 |
| 35 | What is the maximum possible number cables that can enter a TM small node?  A. 10  B. 15  C. 18 |  |
|  |  | 1 |
| 36 | What is the standard BT colour code used in SST cable?  A. BL, Or, Grn, Rd, Gry, Yel, Brn, Vio, Blk, W, Pk, Turq  B. BL, Or, Grn, Br, Gry, Yel, Rd, Vio, Blk, W, Pk, Turq  C. BL, Or, Grn, Rd, Gry, Yel, Blk, Brn, Vio, W, Pk, Turq |  |
|  |  | 1 |
| 37 | What is the Telcordia colour code?  A. BL, Or, Grn, Rd, Gry, Yel, Brn, Vio, Blk, W, Pk, Turq  B. BL, Or, Grn, Brn, Gry, W, Rd, Blk, Yel, Vio, Pk, Turq  C. BL, Or, Grn, Rd, Gry, Yel, Blk, Brn, Vio, W, Pk, Turq |  |
|  |  | 1 |
|  | **Cabling 36F UG & OH and CBTs** |  |
| 38 | Is COF 600 is suitable for overhead use?  A. Yes  C. No |  |
|  |  | 1 |
| 39 | Is 36f ULW installed in sub-duct in the One fibre network?  A. Yes  B. No |  |
|  |  | 1 |
| 40 | List 3 types of cable which require Kopex for additional protection when installed into the TM series joints?  A. COF205, COF260, BFT  B. COF205, COF260, SST  C. COF215, COF200, COF209 |  |
|  |  | 1 |
| 41 | When must you provide yellow tape on UG fibre cables?  A. Always  B. Never  C. When there is no factory provided yellow stripe on the cable |  |
|  |  | 1 |
| 42 | What is the minimum bend radius of 36f ULWC?  A. 80mm  B. 84mm  C. 100mm |  |
|  |  | 1 |
| 43 | What diameter clamp is used on 36f ULW and how is it identified?  A. 6mm Orange flash  B. 7mm Purple flash  C. 8mm Red flash |  |
|  |  | 1 |
| 44 | What is the correct method of installing an SST clamp?  A. Ensure the rough side of the shim faces the cable, both sides of the rough holes are in contact with cable sheath  B. Ensure the smooth side of the shim is facing the cable, ensure the rough holes are not in contact with the sheath as to not damage the cable  C. Ensure the rough side of the shim faces the cable, only one side of the cable needs to be in contact with the rough holes |  |
|  |  | 1 |
| 45 | What is the minimum amount of Anti-Oscillation twists needed per 10m when installing SST cable OH?   1. 10 2. 5 3. 1 |  |
|  |  | 1 |
| 46 | Which clamp should be fitted at straight through intermediate poles with no road or rail crossings?  A. Hybrid cable clamp  B. Full termination clamp  C. Intermediate overhead cable clamp |  |
|  |  | 1 |
| 47 | How is cable movement minimised on a 36f ULWC?  A. ELM  B. ACD  C. Cable clamp |  |
|  |  | 1 |
| 48 | Where in the cable run are they fitted?  A. First and last poles  B. At joint locations only  C. First pole, last pole and where the 36F enters and exits pole mounted joints |  |
|  |  | 1 |
| 49 | What must be fitted to all pole mounted Corning CBT’s?  A. Black plastic mounting brackets  B. Back plate  C. Nothing, screw CBT directly onto pole |  |
|  |  | 1 |
| 50 | CBT’s must be fitted where on a pole?  A. Anywhere it will fit safely  B. Bottom pole envelope  C. Top pole envelope |  |
|  |  | 1 |
| 51 | Name 3 marking requirements for a UG CBT with SST cable?  A. CBT ID, yellow tape on SST tail, white cable label  B. CBT ID, yellow tape on SST tail, yellow cable label  C. CBT ID, yellow tape on Kopex, Caution Overhead Fibre label |  |
|  |  | 1 |
| 52 | What must be done at the UG CBT with the connector cap on completion of testing?  A. Cut away as not needed  B. Replace cap  C. Leave loose |  |
|  |  | 1 |
| 53 | Which ports need to be tested for toggle test, OTDR trace and power reading?  A. Port 1  B. Port 12  C. All ports |  |
|  |  | 1 |
| 54 | CBT’s and 36f ULWC cannot be introduced directly into existing pole mounted 32 FDP, 32F UGDP or 24F DP’s at build out stage?  A. True  B. False |  |
|  |  | 1 |
|  | **Splicing** |  |
| 55 | On a 4, 8 and 12 port CBT how many fibres are spliced through at build stage?  A. All or as stated on FNC’s  B. None  C. Fibre 1 only |  |
|  |  | 1 |
| 56 | How many trays are used when splicing a 12 port CBT?  A. 1  B. 2  C. 12 |  |
|  |  | 1 |
| 57 | Can output fibres from two different splitters be used to provide service to a single CBT?  A. Yes  B. No |  |
|  |  | 1 |
| 58 | Which 45mm splice protector can be used in TM joints?  A. Protector splice 5a Yellow  B. Protector splice 4 Clear |  |
|  |  | 1 |
|  | **Testing** |  |
| 59 | What tester is used to indicate light source passing through a fibre?  A. OTDR  B. Power meter  C. Live fibre indicator 1a |  |
|  |  | 1 |
| 60 | What must be done before testing a live fibre with a standard OTDR?  A. Light source removed by the AOC  B. Call your manager  C. No testing required |  |
|  |  | 1 |
| 61 | What piece of equipment is used to carry out Optical loss tests?  A. Live Fibre Indicator 1a  B. OTDR  C. Light Source 5c |  |
|  |  | 1 |
| 62 | Which two wavelengths are used to test connected fibres with an OTDR?  A. 1310 and 1550nm  B. 1310 and 1490nm  C. 1350 and 1550nm |  |
|  |  | 1 |
| 63 | Is a light loss reading of -28.2dB acceptable when measured at the CBT?  A. Yes  B. No |  |
|  |  | 1 |
| 64 | What wavelength is used to take the optical power loss reading at a CBT?  A. 1310nm  B. 1550nm  C. 1490nm |  |
|  |  | 1 |

# Module Guidance

If the task that is being used for the Assessment is all UG or all OH, the Assessor will satisfy himself that the Delegate has the knowledge to complete the other type of Provide/Work to the required standard

|  |  |
| --- | --- |
| **Assessment Pointer** |  |
| **Trained /Skilled** |  |
| Delegate has completed required FTTP training course ORNGA203 for Build Engineers or equivalent | X |
| **Questionnaire** |  |
| Complete 80% or above | X |
| **Personal Protective Equipment (PPE)** |  |
| All PPE available and in good order and used correctly where required | X |
| **Safety/Security** |  |
| Site set up to the current safety standards using the correct safety equipment. (Gas Test Work point correctly guarded, plant protected from weather and o/s interference etc. | X |
| **Tools & Equipment** | X |
| Delegate has the correct tools and equipment and they are in good order to complete the task to the current work practices and quality standard. | X |
| Tools and equipment used correctly and safely | X |
| **Installation of 36 Fibre ULWC/ SST Overhead** |  |
| Correct O/H practices observed | X |
| Correct clamp used   * **ULWC** 7mm purple marked * **SST** Corning SST clamp / SST pole top link | X |
| SST Galloping twists inserted (minimum of 1 twist per 10 metres) | C |
| Clamp used at end terminations and every 4th pole in line of route. | C |
| Correct clearance height maintained | X |
| Cable terminated correctly at ends of route | X |
| Cable fixed to pole using correct methods | C |
| Cable enters closure correctly and is sealed | X |
| Minimum bend radius not compromised | X |
| External Locking Mechanism (ELM) fitted in correct location (Lower work space) | C |
| ELM fitted to pole with 4 screws | X |
| ELM has 5 crosses in centre 2 x SCF at the top and bottom | X |
| **Fibre management. All Nodes** |  |
| Elements routed to trays on correct side | C |
| Fibres routed and stored in trays correctly | X |
| Elements prepared and stripped correctly at specified position. | C |
| Bend Radii not compromised on 36F ULW OH or CBT tail | X |
| Fibres spliced, protected and stored correctly | C |
| Any looped or single spare fibres stored correctly | C |
| All fibre splices completed | X |
| All spliced fibres protected and stored correctly | X |
| **NODE Installation:** |  |
| **Strategic Nodes UG** |  |
| **Large/Medium/Small Node** |  |
| Correct joint box size chosen. Large/Medium (JF4 minimum.) Small (JF 2 min) | X |
| Mobra installed correctly in correct position with regard to alignment | X |
| Node mounted correctly on MOBRA with all nuts/bolts present and correctly tightened | X |
| Correct Node type provided. Large, Medium or Small. | X |
| Internal trays of closure correct as planned, Splitters and Fibre trays. | X |
| 36 Fibre ULWC incoming/outgoing and CBT cable (where planned) installed and sealed correctly | X |
| Fibre management rules applied correctly | C |
| Port sealing kits fitted correctly (Oval and Circular) | X |
| Node closed, and stored correctly on completion | X |
| **Strategic Nodes OH Pole mounted (Medium and Small TM closures)** |  |
| Correct Node type provided. Medium or Small. | X |
| Jointing completed at a minimum height of 1.4m above ground level | C |
| Internal trays of closure correct as planned, Splitters and Fibre trays. | X |
| Splitters fitted and secured correctly | X |
| 36 Fibre ULWC incoming/outgoing and CBT cable (where planned) installed and sealed correctly | X |
| Fibre management rules applied correctly | C |
| Port sealing kits fitted correctly (Oval and Circular) | X |
| Node mounted on pole in correct position using the correct fittings and correctly aligned (Lower work space) | C |
| Node closed and correctly on completion | C |
| **Cable/Joint Support, Restraint and Identification** |  |
| All cables labelled correctly using Cable Marker Optical | C |
| UG cables marked with yellow tape when no factory makings exist | C |
| Cables/BFT/Sub duct supported and restrained correctly | X |
| Nodes supported correctly | X |
| Node labelled with a durable indelible marker visible when the closure is fitted in the jointing chamber or pole | C |
| **Connectorised BT (CBT) UG** |  |
| Correct CBT provided. As Planned | X |
| CBT mounted correctly and in correct position. (On a MOBRA or flat bar) | X |
| Correct amount of cable left on CBT tail for splicing | X |
| All CBT port caps present | C |
| CBT tail protected and secured and supported correctly in UG network | C |
| CBT tail enters node correctly and has appropriate sealing kit fitted | X |
| Fibre management rules applied correctly | C |
| **Connectorised BT (CBT) OH** |  |
| Correct CBT provided. As Planned | X |
| CBT mounted correctly and in correct position. | X |
| Correct amount of cable left on CBT tail for splicing | X |
| All CBT port caps present | C |
| CBT tail secured correctly to pole | C |
| CBT tail enters node correctly and has appropriate sealing kit fitted | X |
| Fibre management rules applied correctly | C |
| **Installing splitters in splitter nodes** |  |
| Splitter fibres stored correctly splicing | X |
| Splitter fibres correctly routed and stored on output trays | X |
| Fibres Spliced correctly and correct protector fitted | X |
| Splice correctly stored | X |
| **Fibre Testing** |  |
| Correct tools available to carry out testing | X |
| Delegate has knowledge of testing parameters i.e. Frequencies and optical loss | X |
| Repair process known/followed if commission failure (Optical loss outside limits) >26dB | X |
| Light source present before leaving site | X |

# References

Network Engineering [Technical Library](https://intra.bt.com/bt/openreach/chief-engineer/network-evolution/interface-team/organisation-network_reliability_home_page/aei_library/Pages/index.aspx) Homepage

EPT/ANS/A040 - One Fibre Network - Build Quality Manual for Engineers

EPT/COF/D945 - Universal Node 1A & TM Range of Fibre Nodes

EPT/COF/C004 - FTTP Connectorised L2C Practices

EPT/COF/C005 - FTTP Single Split Non FDP Connectorised Block Terminal Build Installation Practices

END OF DOCUMENT