

openreach

ISIS practice  
For Openreach and Contract Partners

AEI/ACC/S019

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Use until 13-Apr-2025

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# ***Chief Engineer FTTP Build Process***

# ***About this document ...***

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## **Content approval**

This is the Issue 2 of this document.  
The information contained in this document was approved on 13-Apr-2023  
by Vanessa Hilton, Accreditation professional

## Version History

Version No.	Date	Author	Comments
Issue 2	13-Apr-2023	Quality Standards & Accreditation	Review and update updated questions 1,3,5,7,9,11,14,16,18,22,23, 27,31,32,35,and 37.
Issue 1	11-Apr-2022	Quality Standards & Accreditation	New Module created

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# 1 *Introduction*

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

Links to ISIS documents, accreditation modules and all reference material can be found in:

- [Technical Library](#), [Bookstore](#) or Policy & Build App for Openreach.
- CANDID for Contract Partners.

Answers for all modules are available via the Author of this 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.

# 2 *Scope*

The target audience for this accreditation is anyone working on the Openreach network including Contract Partners.

This module is essential for anyone carrying out exchange selection & preparation, spine build and Passive Optical Network (PON) build using the Chief Engineer (CE) process. The overall content is covered in the following Description and Method sections, in more detail.

# 3 *Description*

This module consists of a questionnaire and is designed to test the Delegates understanding of the whole Chief Engineer process.

**Content:** This assessment will question with access to references the following:

- Phase 1 – Exchange Selection & Preparation.
- Phase 2 - Spine Build.
- Chief Engineer PON Build (11-week model).
- Construction (Design and Management) Regulations 2015.

**Prerequisites:** The Delegate must have successfully completed the below:

- Construction (Design and Management) Regulations 2015.

**Duration: Questionnaire** 90 mins

## 4 **Measurement**

**Questionnaire:** The Delegate must achieve **80%** or greater to be successful. For Openreach Delegates the questionnaire can be found on Learning Home as an online course using the code **ORCHK085**.

**Practical:** Using the Module Guidance and ISIS documents for reference, the Assessor will check that the Delegate completes the tasks outlined in the Method section.

The Module Guidance outlines where coaching can be provided, highlighted by a Coaching Mark (C) next to each Assessment Pointer. No more than **30%** of the available Coaching Marks can be used.

**Assessor Note:** The exact score required to pass the questionnaire and the allowed number of Coaching Marks can be found in the Delegates Details section.

**Post Assessment:** You **must** enter the results onto the [Skills Passport](#) or Smart Awards for Contract Partners.

## 5 **Safety**

**Caution:** 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

Using their mandatory holding of safety and relevant access equipment, the Delegate will demonstrate to the Assessor, the correct safety practices required to successfully complete this accreditation module. This may include a check of:

- Relevant safety modules on National Operative Passport Scheme (NOPS) card (Partners Only).
- Openreach Construction Design Management (CDM) 2015 Regulations Policy followed.
- Relevant New Roads and Street Works Act (NRSWA) qualification.
- Personal Protective Equipment (PPE).

## 6 *Method*

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

## 7 *Delegate Details*

Module No	AEI/ACC/S019
Title	Chief Engineer FTTP Build process
Date	
Delegate's Name	
Delegate's UIN	
OUC	
Assessor's Name	
Assessor's UIN	
Questionnaire	PASS/FAIL
Practical	PASS/FAIL
Notes	

### Questionnaire Scoring:

Total Possible Score	Score Achieved	Required Score to Pass
38		31

## 8 *Questionnaire*

No.	Question	Mark(s)
1	<p>When is it necessity to start the spine build, before the first week of Total Homes Passed (THP) delivery?</p> <p>A. 10 weeks.</p> <p>B. 11 weeks.</p> <p>C. 17 weeks.</p>	
2	<p>How many phases are there of the Chief Engineer process?</p> <p>A. 5</p> <p>B. 3</p> <p>C. 11</p>	
3	<p>Where does the list of agreed exchanges need to be sent for sign off first?</p> <p>A. Fibre First Steering Group</p> <p>B. Senior Project Manager (PMO)</p> <p>C. Planning department</p> <p>D. Fibre Repair Analysis Centre (FRAC)</p>	
4	<p>For area-based clustering, (Headend (HE) based), how is an exchange area selected for the Chief Engineer (CE) Build Programme? Select all that apply.</p> <p>A. Strategic Infrastructure Development (SID) works with Strategy to determine the best locations to build</p> <p>B. Strategic Infrastructure Development (SID) works with CE to determine the most cost effective areas</p> <p>C. CE work with Fibre and Network Delivery (FND) to determine the most cost effective areas</p>	



	<p>D. The exchanges identified are agreed with the FFSG</p> <p>E. CE request exchanges to be change requested into the development plan via Fibre and Network Delivery (FND)</p>	
5	<p>Who approves any change requests for Head-End (HE) assessments?</p> <p>A. Change Board</p> <p>B. Fibre Network Delivery</p> <p>C. CE PMO</p>	
6	<p>How often does the change board sit?</p> <p>A. Daily</p> <p>B. Weekly</p> <p>C. Monthly</p>	
7	<p>What is not shown on the Ghost Plan (GP)?</p> <p>A. Aggregation Nodes (Agg)</p> <p>B. Optical Network Termination (ONT)</p> <p>C. Connectorised Block Terminals (CBT)</p> <p>D. Splitter Nodes (SN)</p>	
8	<p>Is there a ghost plan for every single exchange?</p> <p>A. Yes</p> <p>B. No</p> <p>C. Only if there is a Single Fibre Network (SFN)</p>	

9	<p>What system data cleanse should be carried out to identify additional potential spare spine fibres?</p> <p>A. Physical Inventory of Plant and engineering Records (PIPeR)</p> <p>B. Local Loop Unbundling System (LLUMS)</p> <p>C. Integrated Network Systems (INS)</p> <p>D. Test and Diagnostics Data Store (TADDS)</p>	
10	<p>When can a reserved fibre be considered as usable?</p> <p>A. The reservation date is over 12 months old</p> <p>B. The reservation date is over 24 months old</p> <p>C. The reservation date is over 36 months old</p>	
11	<p>Should we consider the use of Subtended Head-End for spine planning optimisation?</p> <p>A. Yes</p> <p>B. No</p> <p>C. Only if there is a Single Fibre Network</p>	
12	<p>How many days should be allowed for a spine optimisation pack to be built?</p> <p>A. 5 days</p> <p>B. 7 days</p> <p>C. 10 days</p> <p>D. One calendar month</p>	
13	<p>What system should be used to survey the Passive Optical Network (PON) for optimisation?</p>	

	A. ORION B. GeoHub C. LLUMS	
14	In the glide planning activity what percentage of THP should be included for contingency?  A. 10% B. 20% C. 30%	
15	In what weeks will the Chief Engineer PON build take place?  A. Weeks 1-11 B. Weeks 3-11 C. Weeks 1-17	
16	Which estimates are required for each PON at the survey stage? Select all that apply.  A. 1 x Clear Blockage estimate B. 1 x Survey estimate C. 1 x Test rod and Rope (TR&R) estimate D. 1 x Optical Distribution Frame (ODF) Hydra Mapping estimate	
17	When should the PON survey be completed?  A. Week 1 B. Week 3	

	C. Week 11	
18	<p>When producing the job packs what method is recommended for use?</p> <p>A. Single method</p> <p>B. Double method</p> <p>C. Triple method</p> <p>D. Rhythm method</p>	
19	<p>In what weeks should the job packs be produced?</p> <p>A. Weeks 1 and 3</p> <p>B. Weeks 2 and 3</p> <p>C. Weeks 3 and 5</p>	
20	<p>At the planning stage, which type of job packs are recommended? Select all that apply.</p> <p>A. 1 x Civils pack</p> <p>B. 1 x Poling pack</p> <p>C. 1 x Build pack</p> <p>D. 1 x TR&amp;R pack</p>	
21	<p>When does the Construction Design Management (CDM) assurance audit take place?</p> <p>A. Weeks 1 and 3</p> <p>B. Weeks 2 and 3</p> <p>C. Weeks 3 and 4</p>	

22	<p>What percentage of the Design Risk Summary Sheet (DRSS) sheets are carried out for audit?</p> <p>A. 10%</p> <p>B. 50%</p> <p>C. 100%</p>	
23	<p>When are the Job packs handed over to the build agent?</p> <p>A. Week 1</p> <p>B. Week 2</p> <p>C. Week 3</p> <p>D. Week 4</p>	
24	<p>What week/day is the handshake meeting held?</p> <p>A. Week1/Wednesday</p> <p>B. Weeks 2&amp;3/Monday &amp; Friday</p> <p>C. Week 4/Monday</p>	
25	<p>When must all civils and poling be completed by?</p> <p>A. Within 5 weeks</p> <p>B. Within 11 weeks</p> <p>C. Within 17 weeks</p>	
26	<p>When does Connectorised Block Terminal (CBT) installation commence?</p> <p>A. Week 1</p> <p>B. Week 5</p>	

	C. Week 9 D. Week 11	
27	When does cabling installation take place?  A. Week 3 B. Week 8 C. Week 9	
28	When should light testing of the PON take place?  A. Week 7 B. Week 9 C. Week 10 D. Week 11	
29	When are quality audits and sign off's carried out?  A. Week 11 B. Week 12 C. Week 17 D. As soon as the work is carried out	
30	When considering civil avoidance, what Cable Optical Fibre (COF) could be used for overblow?  A. COF 215 B. COF 250 C. COF 260 D. COF 270	

31	<p>When a Departure From Estimate (DFE) is required from the build agent, what must be given to them?</p> <p>A. Estimate number</p> <p>B. Slip number</p> <p>C. Allocation number</p>	
32	<p>In the post survey/access build planning packs, what day/week is the civils estimate created?</p> <p>A. Mon/Week 1</p> <p>B. Fri/Week 1</p> <p>C. Mon/Week 2</p> <p>D. Fri/Week 2</p>	
33	<p>What does RACI stand for?</p> <p>A. Responsible, Accurate, must be Consulted with, and who is to be kept Informed</p> <p>B. Responsible, Accountable, must be Conferred with, and who is to be kept Informed</p> <p>C. Responsible, Accountable, must be Consulted with, and who is to be kept Informed</p>	
34	<p>Which system is used to check for reserved fibres against G.Fast?</p> <p>A. Equivalence Management Platform (EMP)</p> <p>B. Customer Service System (CSS)</p> <p>C. Physical Inventory of Plant and engineering Records (PIPeR)</p> <p>D. Control Of New Greenfield Organisation (CONGO)</p>	

35	<p>Which system would you check for the Light Loss Test Results (LLR)?</p> <p>A. INS</p> <p>B. TADDS</p> <p>C. LLUMS</p>	
36	<p>What diameter of duct is suitable for a duct camera?</p> <p>A. 10mm – 200mm</p> <p>B. 20mm – 200mm</p> <p>C. 25mm – 200mm</p>	
37	<p>Which document is the Openreach Construction Design Management regulations policy?</p> <p>A. SFY/HSR/C036</p> <p>B. SFY/HSR/C031</p> <p>C. SFY/HSR/D030</p>	
38	<p>Build agents have a Network Operative Passport Scheme (NOPS) card, where should this be noted?</p> <p>A. Site register</p> <p>B. CDM worker register</p> <p>C. Induction register</p>	
	<b>Total</b>	



## 9 *References*

All the documents below are available through the sites and systems described in the Introduction section. If you require access to external sources within them, then please contact the Author (see above) of this accreditation module.

**Assessors Note:** All Openreach people should have access to the Policy & Build app via their work mobile phones. Please make sure that this app is accessed during the accreditation.

- NWK/LNK/C610 - Chief Engineer FTTP Build Process
- SFY/HSN/A001 - Health & Safety Handbook (Openreach only).
- CPE/NNS/V060 - Guide to Health & Safety Minimum Standards.
- SFY/HSN/C031 - Openreach Construction Design Management (CDM) 2015 Regulations Policy.

END OF DOCUMENT
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