

openreach

ISIS practice  
For Openreach and Contract Partners

AEI/ACC/P011

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# ***Chief Engineer FTTP Build Process for Planners***

## ***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 20-Apr-2023  
by Marc Henson, Network Quality, Standards & Accreditation Specialist

## Version History

Version No.	Date	Author	Comments
Issue 2	20-Apr-2023	Vanessa Hilton	Updated questionnaire added glossary
Issue 1	27-Apr-2022	Quality Standards & Accreditation	New Module created for planners only.

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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 the [Technical Library](#) or [Bookstore](#) for Openreach and in 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 the questionnaire.
- Explain that reference documentation can be used.

# 2 *Scope*

The target audience for this accreditation is anyone planning the Openreach network including Contract Partners on Fibre to the Premise (FTTP).

This module is essential for anyone carrying out exchange selection, preparation and planning 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 confirm the delegates understanding of the whole Chief Engineer planning 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.
- Construction (Design and Management) Regulations 2015.

## 4 *Measurement*

**Questionnaire:** The Delegate must achieve **80%** or greater to be successful. For Openreach delegates and anyone with access the questionnaire can be found on Learning Home as an online questionnaire using the code **ORCHK086**.

**Post Assessment:** You **must** enter the results onto the Skills Passport or Smart Awards for Contract Partners.

## 5 *Method*

**Questionnaire:** Using reference documentation where required, the Delegate will complete the questionnaire. A maximum of **60** minutes is allowed for this exercise.

## 6 *Delegate Details*

Module No	AEI/ACC/P011
Title	Chief Engineer FTTP Build process for Planners
Date	
Delegate's Name	
UIN/Licence No.	
OUC	
Assessor's Name	
Assessor's UIN	
Questionnaire	PASS/FAIL
Notes	

**Questionnaire Scoring:**

Total Possible Score	Score Achieved	Required Score to Pass
30		24

## 7 Questionnaire

No.	Question	Mark(s)
1	When must the spine build start, prior to the first week of Total Homes Passed (THP) delivery?  A. 10 weeks B. 11 weeks C. 17 weeks	
2	How many phases are there in the Chief Engineer process?  A. 5 B. 3 C. 11	
3	Where does the list of agreed exchanges need to be sent for sign off first?  A. Fibre First Steering Group (FFSG) B. Senior Project Manager (PMO) C. Planning department D. Fibre Repair Analysis Centre (FRAC)	
4	For area-based clustering, (Head End (HE) based), how is an exchange area selected for the Chief Engineer (CE) Build Programme? Select all that apply.	

	<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 (CR) for 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?</p> <p>A. Aggregation Nodes</p> <p>B. Optical Network Termination</p> <p>C. Connectorised Block Terminals</p> <p>D. Splitter Nodes</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</p>	



9	Which system is used to complete a data cleanse, to identify potential spare spine fibres?  A. PIPeR B. LLUMS C. INS D. ORION	
10	When can a reserved fibre be considered as usable?  A. The reservation date is over 12 months old B. The reservation date is over 24 months old C. The reservation date is over 36 months old	
11	We cannot consider the use of Subtended Headend (SHE) for spine planning optimisation.  A. True B. False	
12	How many days should be allowed for a spine optimisation pack to be built?  A. 5 days B. 7 days C. 10 days D. One calendar month	
13	Who completes any Contract Change Note (CCN) Partner awards?	

	A. Procurement team B. Planning team C. Build team	
14	Which system should be used to survey the PON for optimisation?  A. ORION B. GeoHub C. LLUMS	
15	In the glide planning activity what percentage of THP should be included for contingency?  A. 10% B. 20% C. 30%	
16	When does the Chief Engineer PON build take place?  A. Weeks 1-11 B. Weeks 3-11 C. Weeks 1-17	
17	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	
18	Which document is the Openreach Construction Design Management	

	(CDM) regulations policy?	
	A. SFY/HSB/C036 B. SFY/HSB/C031 C. SFY/HSB/D030	
19	When producing the job packs, which method is recommended for use?  A. Single method B. Double method C. Triple method D. Rhythm method	
20	When should the job packs be produced?  A. Weeks 1 and 3 B. Weeks 2 and 3 C. Weeks 3 and 5	
21	At the planning stage, which type of job packs are recommended? Select all that apply.  A. 1 x Civils pack B. 1 x Poling pack C. 1 x Build pack D. 1 x Test rod and rope pack	
22	What is the percentage build requirement for THP per exchange?  A. 75% B. 100%	

	C. 120%	
23	<p>Who must ensure that all optical fibre cables are recorded <b>on in</b> the appropriate systems?</p> <p>A. The CE PMO</p> <p>B. The planner</p> <p>C. The build agent</p>	
24	<p>Which system is used to check for reserved fibres against any G.fast allocated tasks?</p> <p>A. EMP/COSMOSS</p> <p>B. CONGO</p> <p>C. CSS</p>	
25	<p>In Safety/CDM, who completes the welfare document?</p> <p>A. Chief Engineers CDM Assurance team</p> <p>B. Planners</p> <p>C. Build Agents</p>	
26	<p>Who do you send the ODF hydra mapping pack to?</p> <p>A. The build agent</p> <p>B. DL owner in the operational delivery team</p> <p>C. CE PMO</p>	
27	<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</p>	

	kept Informed C. Responsible, Accountable, must be Consulted with, and who is to be kept Informed	
28	Which systems are used to record all connections between the exchange and splitter node?  A. INS and ORION B. PIPeR and INS C PIPeR and COSMOSS	
29	Survey estimates can be produced before the glide assessment is complete.  A. True B. False	
30	Who ensures that the exchange data is aligned across the Quarterly Forecast?  A. Change Board B. Planning Team C. CE PMO	
	<b>Total</b>	30

## 8 *References*

All the document below is 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.

- NWK/LNK/C610 - Chief Engineer FTTP Build Process
- SFY/HSH/C031 - Openreach Construction Design Management (CDM) 2015 Regulations Policy

## 9 *Glossary*

Acronym	
CCN	Contract Change Note
CDM	Construction Design Management
CE	Chief Engineer
COSMOSS	Customer Oriented System for the Maintenance of Special Services
FFSG	Fibre First Steering Group
FND	Fibre and Network Delivery
FRAC	Fibre Repair Analysis Centre
FTTC	Fibre to the Cabinet
FTTP	Fibre To The Premise
GeoHub	Geometric map database
G.fast	Fibre broadband uses FTTC technology
HE	Headend
INS	Integrated Network Systems
LLUMS	Local Loop Unbundling System
ODF	Optical Distribution Frame
ORION	A system used to plan, survey and build the fibre network
PIPeR	Physical Inventory of Plant and engineering Records
PMO	Senior Project Manager
PON	Passive Optical Network
SHE	Subtended Headend

SID	Strategic Infrastructure Development
THP	Total Homes Passed
TR&T	Test Rod and Rope

**END OF DOCUMENT**