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Infinera Technical Training Services Catalog

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Contents

1. Overview 2
2. Instructor Led Course Offerings 3
2.1 1830 Global Express (GX) G30 Series (1830 G31/G32/G34c) Courses 3
2.2 1830 Global Express (GX) G30 Courses 3
2.3 1830 Global Express (GX) G40 Series Courses 4
2.4 1830 Flexible Intelligent Line System (FlexILS) and 1830 Express Transport Cross-Connect (XTC) courses 5
2.5 Submarine Networks Courses 6
2.6 Infinite Capacity Engine – Extensible (ICE-X) Courses 7
2.7 1830 Express Transport Metro (XTM) Courses 8
2.8 1830 mTera Courses 9
2.9 7100 Nano Courses 10
2.10 7300 Courses 10
2.11 7090M Courses 11
2.12 NMS Administration Courses 12
2.13 Generic Topics 12
3. eLearning 13
3.1 Introduction 13
3.2 1830 Global Express (GX) G30 Series (1830 GX G31/G32) 13
3.3 1830 Global Express (GX) G30c Series (1830 GX G34c/G34Xc) 14
3.4 1830 Global Express (GX) G30 15
3.5 1830 Global Express (GX) G42 15
3.6 1830 Flexible Intelligent Line System (FlexILS) 16
3.7 1830 Express Transport Metro (XTM) Series 17
3.8 Infinite Capacity Engine – Extensible (ICE-X) 18
3.9 Network Management and Automation 19
3.10 1830 Express Transport Cross-connect (XTC) 21
3.11 1830 Express Transport (XT) 22
3.12 1830 Cloud Express (CX) 22
3.13 Instant Bandwidth 22
3.14 1830 mTera 22
3.15 7300 23
3.16 OTC 2.0 23

1. Overview

The Infinera Learning Experience is a comprehensive suite of training courses and modules to train customer personnel in the installation, administration, maintenance, and operations in Infinera solutions and products. Infinera utilizes the latest in learning technologies and methodologies to create a personalized learning environment, providing timely and relevant information in easily accessible formats.

Infinera offers its training courses in two formats:

- Instructor Led Training Format:
  - Virtual Learning Environment: Classes have been redesigned and optimized for virtual delivery. Attention has been made to make classes engaging and interactive with the same exercises and objectives as a classroom environment.
  - Classroom Learning Environment: Infinera offers all of its courses in a classroom learning format with extensive hands-on labs on the latest Infinera equipment. Infinera has classroom locations at Richardson (TX, U.S.) and Lisbon (Portugal). Infinera can also deliver most class types at the customer location.
- E-Learning Format:
  - Infinera offers many courses, videos, and tutorials in e-Learning format. Most of our instructor-led courses require pre-requisites, which are completed through e-learning. E-learning content is accessed through a compatible web browser to Infinera's Learning Management System. Annual subscription allows access to all Infinera Customer e-Learning content for one year from purchase date.

2. Instructor Led Course Offerings

2.1 1830 Global Express (GX) G30 Series (1830 G31/G32/G34c) Courses

Course Name	Audience	Course Description	Duration
1830 GX G30 Series (G31/G32/G34c) Field Engineering	Field Technician	This technical training is designed for field engineers who install, commission, and maintain 1830 GX G31/G32/G34c equipment. This training course will provide students an introduction to the system architecture and hardware functionality. Students will learn how install and commission the equipment and how to perform maintenance and monitoring tasks using WebGUI/CLI. Hands on exercises are done using CLI and WebGUI.	3 days
1830 GX G30 Series (G31/G32/G34c) NOC Engineering (TNMS)	NOC Engineer	This technical training is designed for NOC and Operations personnel who manage 1830 GX G31/G32/G34c equipment using Transcend Network Management System (TNMS). This training course will provide students an introduction to 1830 GX G30 Series system architecture and hardware functionality. Students will learn how configure system and how to provision various services using TNMS. Students will perform basic system troubleshooting and learn how to perform alarm and performance monitoring tasks using TNMS. Hands on exercises are done using TNMS.	3 days

2.2 1830 Global Express (GX) G30 Courses

Course Name	Audience	Course Description	Duration
1830 GX G30 Field Engineering	Field Technician	This technical training is designed for field engineers who install, commission, and maintain 1830 GX G30 equipment. This training course will provide students an introduction to 1830 GX G30 system architecture and hardware functionality. Students will learn how install and commission the 1830 GX G30 equipment and how to perform maintenance and monitoring tasks using WebGUI/CLI. Hands on exercises are done using CLI and WebGUI.	1 day

Course Name	Audience	Course Description	Duration
1830 GX G30 NOC Engineering (TNMS)	NOC Engineer	This technical training is designed for NOC and Operations personnel who manage 1830 GX G30 equipment using Transcend Network Management System (TNMS). This training course will provide students an introduction to 1830 GX G30 system architecture and hardware functionality. Students will learn how configure 1830 GX G30 system and how to provision various services using TNMS. Students will perform basic system troubleshooting and learn how to perform alarm and performance monitoring tasks using TNMS. Hands on exercises are done using TNMS or Command Line Interface (CLI)	3 days
1830 GX G30 NOC Engineering (CLI)	NOC Engineer/Operations	This technical training is designed for Operations personnel who manage 1830 GX G30 equipment using Command Line Interface (CLI). This training course will provide students an introduction to 1830 GX G30 system architecture and hardware functionality. Students will learn how to configure the 1830 GX G30 system and how to provision various services using CLI. Students will perform basic system troubleshooting and learn how to perform alarm and performance monitoring tasks using CLI. Hands on exercises are done using CLI.	3 days

2.3 1830 Global Express (GX) G40 Series Courses

Course Name	Audience	Course Description	Duration
1830 GX G42 Field Engineering	Field Technician	This technical training is designed for field engineers who install, commission, and maintain 1830 GX G42 equipment. This training course will provide students an introduction to 1830 GX G42 system architecture and hardware functionality. Students will learn how install and commission the 1830 GX G42 equipment and how to perform maintenance and monitoring tasks using WebGUI and CLI.	1 day
1830 GX G40 NOC Engineering (TNMS/DNA)	NOC Engineer	This technical training is designed for NOC and Operations personnel who manage 1830 GX G42 equipment using Transcend Network Management System (TNMS) or DNA. After a brief introduction to 1830 GX G42 hardware students will learn how configure 1830 GX G42 system and how to provision services using TNMS/DNA. Students will perform basic system troubleshooting and learn how to perform alarm and performance monitoring tasks using TNMS/DNA.	2 days

2.4 1830 Flexible Intelligent Line System (FlexILS) and 1830 Express Transport Cross-Connect (XTC) courses

Course Name	Audience	Course Description	Duration
Field Engineering	Field Technician	This technical training is designed for Field Engineers who install and commission 1830 FlexILS and 1830 XTC network elements. This training course will show the student how to commission nodes so that they can then be accessed remotely for further configuration by the Network Operation Center. Students will bring up a digital and optical links, configure the network element and learn how to make software upgrades and database backups as well as replace modules and interpret Alarm Manager and Event Logs. Hands on exercises are done using Graphical Node Manager (GNM).	3 Days
NOC Engineering DNA/TNMS	NOC Tier 3 Engineer	This technical training is designed for NOC Engineers who carry out high level troubleshooting on all aspects of the 1830 FlexILS and 1830 XTC and are responsible for the security and administration of the network and perform software upgrades. Students will be given an overview of Transcend Network Management System (TNMS)/Digital Network Administrator (DNA) to perform alarm and event management, troubleshooting and diagnostic operations, configuration options, provision all types of services, security administration and use various tools such as Digital Link Viewer (DLV) and Digital Bandwidth Manager (DBM).	3 Days

2.5 Submarine Networks Courses

Course Name	Audience	Course Description	Duration
SLTE Product Overview (Type A)	All subsea network staff	This training course is designed for the student who needs an introduction into the capabilities of the Nokia submarine network solution. Students are provided detailed information on the following topics: • Capabilities of relevant node types • Hardware functions and features • Theory of Operations • OTN Overview • DCN Overview • Design considerations *covered products depend from the deployment.	1-2 Days
SLTE Node Operations and Maintenance (Type B1)	Cable Landing Station (CLS) Engineers	This technical training course will provide an overview describing the procedures for operations, administration, and maintenance of the Nokia submarine network solution with focus on the node in the station. This will include use of the Graphical User Interface to view alarms, perform troubleshooting, circuit pack configuration, view performance monitoring data and alarm clearing techniques. *covered products depend from the deployment.	3 Days
SLTE Systems Operations and Maintenance (Type B2)	Cable Landing Station (CLS) Engineers	This technical training course will provide an overview describing the procedures for operations, administration, maintenance, and provisioning of the Nokia submarine network solution with focus on the whole end to end link. This will include use of Transcend Network Management System (TNMS)/Digital Network Administrator (DNA) and Wet Plant Link Manager (WPLM) (if applicable) for alarm handling, maintenance and troubleshooting, provisioning, node configuration, digital link configuration and understanding Performance Monitoring (PM) data. *covered products depend from the deployment.	3 Days

Course Name	Audience	Course Description	Duration
SLTE Network Management and Operations (Type B3)	SLTE NOC Engineers	This technical training course will provide an overview describing the procedures for operations, administration, maintenance, and provisioning of the Nokia submarine network solution with focus on the whole network. This will include use of Transcend Network Management System (TNMS)/Digital Network Administrator (DNA) for alarm handling, maintenance and troubleshooting, provisioning, node configuration, digital link configuration, software and database management, NMS administration (adding nodes, admin domains, user accounts) and understanding Performance Monitoring (PM) data. *covered products depend from the deployment.	3-4 Days

2.6 Infinite Capacity Engine – Extensible (ICE-X) Courses

Course Name	Audience	Course Description	Duration
ICE-X Field Engineering	Field Technician	This technical training is designed for field engineers who maintain the ICE-X Modules and ICE-X NDU equipment. This training course will provide the students an introduction to system architecture and hardware functionality of the ICE-X equipment. Students will learn how to perform configuration, maintenance and monitoring tasks using the ICE-X NDU CLI/Menu.	1 Day
ICE-X NOC Engineering (IPM)	NOC Engineer	This technical training course will provide students knowledge on managing ICE-X equipment using Transcend Intelligent Pluggable Manager (IPM). The course will provide an introduction to IPM features and functionality. Students will learn how to perform network element configurations using IPM. Students will also learn how to configure P2P and P2MP constellation and services end-to-end and how to perform monitoring and troubleshooting tasks using IPM.	1 Day

2.7 1830 Express Transport Metro (XTM) Courses

Course Name	Audience	Course Description	Duration
1830 XTM Field Engineering	Field Technician	This is a three days course focusing on equipment from the 1830 XTM product line. It covers installation and configuration from a network element perspective including amplifiers and ROADMs. The course consists of presentations and practical exercises. Hands on exercises are done using the Embedded Node Manager (ENM).	3 Days
1830 XTM NOC Engineering DNA-M	NOC Tier 3 Engineer	A three-day course where participants learn how to do various configuration, provisioning, operation and maintenance tasks using DNA-M, ENM WebGUI and ENM CLI. One day is devoted to fault-finding practice. The course consists of presentations and practical exercises.	3 Days
1830 XTM NOC Engineering TNMS	NOC Tier 3 Engineer	A three-day course where participants learn how to do various configuration, provisioning, operation and maintenance tasks using Transcend Network Management System (TNMS), ENM WebGUI and ENM CLI. One day is devoted to fault-finding practice. The course consists of presentations and practical exercises done with TNMS.	3 Days
1830 XTM Layer 2 Operation – DNA-M	NOC Tier 3 Engineer	This three day course gives you an overview and practice in configuring the Layer 2 features of EMXP and EDU products including: Overview of Ethernet protocol from MEF perspective, overview of L2 products and features, practice creating L2 services according to MEF network model, practice creating services using MPLS-TP feature of EMXP cards, practice with configuration of traffic policing and shaping, practice configuring L2 resiliency features: LAG and ERPS, practice using Ethernet OAM for monitoring the L2 network, and practice setting up Management VLANs for in-band management channels.	3 Days
1830 XTM Layer 2 Operation – TNMS	NOC Tier 3 Engineer	Students will learn how to navigate around the Transcend Network Management System (TNMS), add and delete XTM nodes, create Ethernet Services, Create Protection for Ethernet Services, View Alarms, Events and Inventory. Export data from TNMS, and cover basic troubleshooting. Hands-on exercises are done using TNMS.	3 Days

Course Name	Audience	Course Description	Duration
TNDT Operation	Network Planning	This course is intended for those who want to learn how to design 1830 XTM networks with optical amplifiers and ROADMs. It is suitable for network designers working with metro, regional or core DWDM networks. This is a three-day course with a mix of theory and practical simulations related to amplified DWDM networks. Practical exercises are done using TNDT planning tool. The course covers design rules for important design parameters for optical transmission, e.g. power levels, dispersion, PMD, noise. Design rules for 10G, 40G and 100G are included. The course also includes a discussion on building networks with ROADMs, and ROADMs are used in many simulation examples.	2 Days

1.8 1830 mTera Courses

Course Name	Audience	Course Description	Duration
1830 mTera Field Engineering	Field Technician	This technical training is designed for field engineers who install, commission, and maintain 1830 mTera equipment. This training course will provide students an introduction to 1830 mTera system architecture and hardware functionality. Students will learn how install and commission the equipment and how to perform maintenance and monitoring tasks using 7191 Craft Station (CS). Hands on exercises are done using 7191 CS.	2 days
1830 mTera NOC Engineering	NOC Engineer	This technical training is designed for NOC and Operations personnel who manage 1830 mTera equipment using Transcend Network Management System (TNMS). This training course will provide students an introduction to 1830 mTera system architecture and hardware functionality. Students will learn how configure and provision services on 1830 mTera using TNMS. Students will perform basic system troubleshooting, performance, and alarm monitoring by using the monitoring tools available in TNMS.	3 days

1.9 7100 Nano Courses

Course Name	Audience	Course Description	Duration
7100 Nano Field Engineering	Field Technician	This technical training is designed for field engineers who install, commission, and maintain 7100 Nano equipment. This training course will provide students an introduction to 7100 Nano system architecture and hardware functionality. Students will learn how install and commission the 7100 Nano equipment and how to perform maintenance and monitoring tasks using 7191 Craft Station (CS). This training also covers acceptance testing procedures for the included equipment. Hands on exercises are done using 7191 CS.	2 days
7100 Nano NOC Engineering	NOC Engineer	This technical training is designed for NOC and Operations personnel who manage 7100 Nano equipment using Transcend Network Management System (TNMS). This training course will provide students an introduction to the 7100 Nano ROADM/FOADM system architecture and hardware functionality. Students will learn how configure and provision services on 7100 Network using TNMS. Students will perform basic system troubleshooting, performance, and alarm monitoring by using the monitoring tools available in TNMS.	2 days

2.10 7300 Courses

Course Name	Audience	Course Description	Course
7300 Field Engineering	Field Technician	This technical training is designed for field engineers who install, commission, and maintain 7300 equipment. This training course will provide students an introduction to system architecture and hardware functionality. Students will learn how install and commission the 7300 equipment and how to perform acceptance testing on the equipment.	2 days

Course Name	Audience	Course Description	Course
7300 NOC Engineering	NOC Engineer	This technical training is designed for NOC and Operations personnel who manage 7300 equipment using Transcend Network Management System (TNMS). This training provides information about 7300 system architecture, modules and signal flow. Students will also learn how to perform provisioning, monitoring and troubleshooting tasks using TNMS. Students will also learn how to perform basic administration tasks on TNMS.	3 days

2.11 7090M Courses

Course Name	Audience	Course Description	Duration
7090M Field Engineering	Field Technician	This technical training is designed for field engineers who install, commission, and maintain 7090M equipment. This training course will provide students an introduction to 7090M system architecture and hardware functionality. Students will learn how install and commission the equipment and how to perform maintenance and monitoring tasks using.	1 day
7090M NOC Engineering	NOC Engineer	This technical training is designed for NOC and Operations personnel who manage 7090M equipment using Transcend Network Management System (TNMS). This training course will provide students an introduction to 7090M system architecture and hardware functionality. Students will learn how configure and provision services on 7090M using TNMS. Students will perform basic system troubleshooting, performance, and alarm monitoring by using the monitoring tools available in TNMS.	4 days

2.12 NMS Administration Courses

Course Name	Audience	Course Description	Duration
DNA Administration	OSS	This technical training is designed for Network Administrators who maintain the Digital Network Administrator (DNA). This training course will show the student how to configure and maintain the DNA. Students will use the DNA Administration Web Admin Tool for a hands-on approach in performing such functions as DNA\PM Back-up and Restore, DNA Cold Start and Shut Down, Super Capture and Server Configurations.	1 Day
TNMS Administration	OSS	This technical training is designed for Network Administrators who install and maintain Transcend Network Management System (TNMS). This training course will show the student how to install, configure and maintain TNMS. Students will learn how to perform maintenance tasks like database backup and restore.	1 day

2.13 Generic Topics

Course Name	Audience	Course Description	Duration
FLM	FLM Engineer	This technical training is designed for engineers who carry out first line maintenance activities. This training will introduce students to fiber handling, laser safety, ESD precautions and site documentation. Students will also learn module replacement for selected Nokia hardware, retrieve logs, back up databases and perform other activities when given remote instructions and guidance from the Network Operations Center.	2 Days
DWDM Basics	All	This technical training provides an overview of DWDM and OTN technology. The course is aimed at an audience with little or no previous experience with optical technology. The course provides an introduction to DWDM and OTN technologies, and different components used in optical networks.	1 day

3. eLearning

eLearning saves you time and money. It reduces the time the learner spends away from their work environment and reduces travel costs; flexibility means students can learn when and where they want. As a pre-requisite to many of our instructor led courses and when combined with our Virtual Learning Environment, then further reduction in travel and accommodation costs are realized.

Our online eLearning is available with tutorials on the products and solutions. They comprise of theory of operation as well as walkthroughs on field-based activities such as commissioning and replacing modules; and remote NOC based activities covering circuit creation and troubleshooting.

Whether standalone or blended with classroom training, eLearning provides learners with the ability to take refreshes whenever required, at the time and pace of their choosing. Our subscription-based model means that learners will always be abreast of the latest changes in technology with constant updates to the eLearning portfolio.

Our Learning Management System measures learning activity and provides reports to track their progress so you will be confident of a return on investment.

3.1 Introduction

Course Name	Course Description
BC-100a Introduction to Open Optical Networking	This online course provides an introduction to Open Optical Networking and Nokia's Open Line system technology.
BC-100b Open Transponders, Open Line System and Flex	This online course provides an introduction to Open transponders and technology used in Nokia solution.
BC-101 Optical Basics	This online course covers the key technologies and principles of DWDM ranging from fiber basics to current methods to maximize optical bandwidth
BC-110 Site Visit Essentials	An overview of the key recommendations when performing installation or maintenance work on Nokia equipment

3.2 1830 Global Express (GX) G30 Series (1830 GX G31/G32)

Course Name	Course Description
BC-606b 1830 GX G30 Series Theory of Operation	This online course provides an introduction to the features and functionality of 1830 GX G31/G32 platforms.

BC-607b 1830 GX G30 Series Turn Up and Test	This online course provides and introduction to turn up and test procedures for 1830 GX G31/G32 equipment.
BC-812 – 1830 GX G30 Series R5.0 - Release Readiness Training	This curriculum provides an introduction to new functionality in 1830 GX GX30 Series release 5.0.
BC-816 – 1830 GX G30 Series R 5.1 - Release Readiness Training	This curriculum provides an introduction to new functionality in 1830 GX G30 Series release 5.1.
BC-832 1830 GX G30 Series R6.0.1 Release Readiness Training	This curriculum provides an introduction to new functionality in 1830 GX G30 Series release 6.0.1.
BC-836 1830 GX G30 Series R7.0 Release Readiness Training	This curriculum provides an introduction to new functionality in 1830 GX G30 Series release 7.0.
BC-837 1830 GX G30 Series R7.1 Release Readiness Training	This curriculum provides an introduction to new functionality in 1830 GX G30 Series release 7.1.

3.3 1830 Global Express (GX) G30c Series (1830 GX G34c/G34Xc)

Course Name	Course Description
BC-606c 1830 GX G30c Series Theory of Operation	This online course provides an introduction to 1830 GX G30c Series equipment. The course introduces the 1830 GX G34c and 1830 GX G34Xc chassis and modules used with the chassis.
BC-607c 1830 GX G30c Series Turn Up and Test	This online course provides and introduction to turn up and test procedures for 1830 GX G34c/G34Xc equipment.
BC-832 1830 GX G30 Series R6.0.1 Release Readiness Training	This curriculum provides an introduction to new functionality in 1830 GX G30 Series release 6.0.1.

BC-836 1830 GX G30 Series R7.0 Release Readiness Training	This curriculum provides an introduction to new functionality in 1830 GX G30 Series release 7.0.
BC-837 1830 GX G30 Series R7.1 Release Readiness Training	This curriculum provides an introduction to new functionality in 1830 GX G30 Series release 7.1.

3.4 1830 Global Express (GX) G30

Course Name	Course Description
BC-601 1830 GX G30 Theory of Operations	Introduction to functionality and features of 1830 GX G30
BC-602 1830 GX G30 Field Engineering	This set of short Learning Modules walks you through the essential processes to be followed when turning up a 1830 GX G30 node in a simple network.
BC-806 1830 GX G30 FP4.3 - Release Readiness Training	This curriculum provides an introduction to new functionality in 1830 GX G30 feature pack 4.3.
BC-810 – 1830 GX G30 FP 4.5 - Release Readiness Training	This curriculum provides an introduction to new functionality in 1830 GX G30 feature pack 4.5.

3.5 1830 Global Express (GX) G42

Course Name	Course Description
BC-606a 1830 GX G42 Theory of Operations	This online course provides an introduction to 1830 GX G42 platform.
BC-607a 1830 GX G42 Turn Up and Test	This online course provides and introduction to turn up and test procedures for 1830 GX G42 equipment.

BC-605 1830 GX G42 – 1830 FlexILS Control Plane Interoperability	This curriculum provides an introduction to 1830 GX G42 and 1830 FlexILS control plane interoperability.
BC-813 - 1830 GX G42 R5.0 - Release Readiness Training	This curriculum provides an introduction to new functionality in 1830 GX G42 release 5.0.
BC-815 - 1830 GX G42 R 5.1 - Release Readiness Training	This curriculum provides an introduction to new functionality in 1830 GX G42 release 5.1.
BC-820 - 1830 GX G42 R5.2 - Release Readiness Training	This curriculum provides an introduction to new functionality in 1830 GX G42 release 5.2.
BC-824 - 1830 GX G42 R6.0 - Release Readiness Training	This curriculum provides an introduction to new functionality in 1830 GX G42 release 6.0.
BC-827 - 1830 GX G42 R6.1 - Release Readiness Training	This curriculum provides an introduction to new functionality in 1830 GX G42 release 6.1.
BC-836 1830 GX R7.0 Release Readiness Training	This curriculum provides an introduction to new functionality in 1830 GX G42 release 7.0.

3.6 1830 Flexible Intelligent Line System (FlexILS)

Course Name	Course Description
BC-106 1830 FlexILS Theory of Operations	Introduction to functionality and features of 1803 FlexILS

BC-123 1830 FlexILS Field Engineering	How to install Flex Line Modules, add MTC-9, FRM and FSP and perform path loss checks
BC-803 – 1830 XTC / 1830 FlexILS R20.1 - Release Readiness Training	This curriculum provides an introduction to new functionality in 1830 FlexILS release 20.1.
BC-808 - 1830 XTC / 1830 FlexILS R22 - Release Readiness Training	This curriculum provides an introduction to new functionality in 1830 FlexILS release 22.
BC-823 - 1830 XTC / 1830 FlexILS R22.1 - Release Readiness Training	This curriculum provides an introduction to new functionality in 1830 FlexILS release 22.1.
BC-828 – 1830 XTC / 1830 FlexILS R22.1 - Release Readiness Training	This curriculum provides an introduction to new functionality in 1830 FlexILS release 22.1.1.

3.7 1830 Express Transport Metro (XTM) Series

Course Name	Course Description
BC-201 1830 XTM Product Overview	This Curriculum introduces the user to the hardware and functionality of modules in the 1830 XTM product range
BC-202 1830 XTM Field Engineering	This Curriculum walks the student through the main tasks that need to be performed when installing an 1830 XTM node.
BC-205 1830 XTM NOC Procedures	This Curriculum walks the student through a range of basic procedures using DNA-M

BC-206 1830 XTM - Layer 2 Basics, MEF, Port Based and Virtual Services	This Curriculum introduces the student to the basics of Layer 2 and MEF terminology and prepares students for the Layer 2 provisioning Curricula.
BC-207 1830 XTM Provisioning Layer 2 Services	This curriculum walks the student through process of configuring Layer 2 Services: creating EPL, EP-LAN, EP-Tree, EVPL, EVP-LAN and EVP-Tree services and setting up MEGs and MEPs
BC-801 1830 XTM R34.0 and R34.1 - Release Readiness Training	This curriculum provides an introduction to new functionality in 1830 XTM R34 and R34.1 releases.
BC-805 1830 XTM R35 - Release Readiness Training	This curriculum provides an introduction to new functionality in 1830 XTM R35 release.
BC-807 – 1830 XTM R36 - Release Readiness Training	This curriculum provides an introduction to new functionality in 1830 XTM R36 release.
BC-822 1830 XTM R37 - Release Readiness Training	This curriculum provides an introduction to new functionality in 1830 XTM R37 release.
BC-834 1830 XTM R38 Release Readiness Training	This curriculum provides an introduction to new functionality in 1830 XTM R38 release.

3.8 Infinite Capacity Engine – Extensible (ICE-X)

Course Name	Course Description
BC-113 ICE-X Theory Of Operation	This online course provides an introduction to ICE-X features and functionality.

3.9 Network Management and Automation

Course Name	Course Description
BC-103 Introduction to Transcend Network Management System (TNMS) (Generic)	This course introduces TNMS. It walks the student through the general concept of TNMS, how it's installed, accessed, and then used for generic features.
BC-112 Transcend Network Management System – 1830 GX G30 NOC Procedures	This Curriculum walks students through the main tasks you would expect to perform when using TNMS to manage a 1830 GX G30 network.
BC-114 1830 Global Express (GX) Network Management Procedures (TNMS)	This online course information about network management procedures for 1830 GX G30 Series and 1830 GX G42 equipment using TNMS.
BC-208 – 1830 XTM NOC Procedures (TNMS)	This course introduces students to the essential processes applied when users manage an 1830 XTM Layer 1 Network using TNMS.
BC-633 Installing TNMS on a Server	This set of short Learning Modules walks you through the essential processes to be followed when installing TNMS on a server
BC-109 1830 XTC and 1830 FlexILS NOC Procedures	This curriculum walks you through the main tasks you would expect to perform when using DNA to manage an 1830 XTC and 1830 FlexILS network
BC-811 - R19.0.0.1 of TNMS - Release Readiness Training	This curriculum provides an introduction to new functionality in TNMS release 19.0.0.1
BC-818 - TNMS 19.10 - Release Readiness Training	This curriculum provides an introduction to new functionality in TNMS release 19.10

BC-825 - TNMS R19.10.1 - Release Readiness Training	This curriculum provides an introduction to new functionality in TNMS release 19.10.1
BC-826 - TNMS R19.10.2 - Release Readiness Training	This curriculum provides an introduction to new functionality in TNMS release 19.10.2
BC-829 - TNMS R19.10.3 - Release Readiness Training	This curriculum provides an introduction to new functionality in TNMS release 19.10.3
BC-831 - TNMS R20.0 - Release Readiness Training	This curriculum provides an introduction to new functionality in TNMS release 20.
BC-835 - TNMS R20.20 - Release Readiness Training	This curriculum provides an introduction to new functionality in TNMS release 20.20.
BC-821 - Introduction to Transcend Open Wave Manager (OWM) - Release Readiness Training	This curriculum provides an introduction Transcend Open Wave Manager (OWM) tool and functionality.
BC-802 - Network Insights R1.0 - Release Readiness Training	This curriculum provides an introduction to Network Insights tool and functionality.
BC-809 - Network Insights R2.0 - Release Readiness Training	This curriculum provides an introduction to new functionality in Network Insights R 2.0.
BC-819 - Network Insights R3.0 - Release Readiness Training	This curriculum provides an introduction to new functionality in Network Insights R 3.0.

3.10 1830 Express Transport Cross-connect (XTC)

Course Name	Course Description
BC-107 1830 XTC Theory of Operations	eLearning modules covering the hardware components, span connectivity, control plane, OTC, Per Module OTN, and PSK on the 1830 XTC platform
BC-108 1830 XTC Turn Up and Test	A series of modules showing a summary of the turn up and test process for a 1830 XTC Chassis
BC-121 1830 XTC-2 Hardware Overview	Introduction to 1830 XTC2 hardware
BC-211 DTN Hardware Overview	15 brief modules covering descriptions of the hardware components of a DTN chassis
BC-212 DTN Theory of Operations	A comprehensive set of modules which covers the operations of optical networking in the DTN system including OTN functionality, Signal Flow, and Circuit Fundamentals
BC-808 – 1830 XTC / 1830 FlexILS R21 - Release Readiness Training	This curriculum provides an introduction to new functionality in 1830 XTC / 1830 FlexILS release 21.
BC-808 - 1830 XTC / 1830 FlexILS R22 - Release Readiness Training	This curriculum provides an introduction to new functionality in 1830 XTC / 1830 FlexILS release 22.
BC-823 - 1830 XTC / 1830 FlexILS R22.1 - Release Readiness Training	This curriculum provides an introduction to new functionality in 1830 XTC / 1830 FlexILS release 22.1.
BC-828 - 1830 XTC / 1830 FlexILS R22.1 - Release Readiness Training	This curriculum provides an introduction to new functionality in 1830 XTC / 1830 FlexILS release 22.1.1.

3.11 1830 Express Transport (XT)

Course Name	Course Description
BC-214 1830 XT-500 Theory of Operations	This Curriculum introduces the 1830 XT-500, explains the client and line interfaces, covers ILS2 and ILS3, details how 1830 XT-500s can be multiplexed together with pre-existing networks.
BC-104 1830 XT-3300 Theory of Operations	This curriculum explains the core functionality of the 1830 XT-3300
BC-105 1830 XT-3300 Field Engineering	This curriculum contains the set of procedures that need to be performed on most 1830 XT-3300 installations.

3.12 1830 Cloud Express (CX)

Course Name	Course Description
BC-214 CX1 Theory, Hardware and Deployment	A set of training modules that introduce the Cloud Xpress solution, the hardware used, some basic installation procedures and a summary of the products strengths
BC-215 1830 CX2 Theory of Operations	Introduction to the 1830 CX2. Includes two modules that covers basic point to point functionality and the higher order multiplexing options.

3.13 Instant Bandwidth

Course Name	Course Description
BC-111 Instant Bandwidth Licensing	This curriculum introduces the concept of Instant Bandwidth Licensing. The examples of applying and removing a license are based on the 1830 XT-3300 and 1830 XT-3600, but the same principles apply to our other products that offer Instant Bandwidth.

3.14 1830 mTera

Course Name	Course Description

BC-116 1830 mTera Theory of Operations	Introduction to the functionality and features of 1830 mTera
BC-622 -1830 mTera Turn Up and Test	This short set of modules will walk you through the process of installing an 1830 mTera, from unpacking to provisioning a DCN IP address.

3.15 7300

Course Name	Course Description
BC-117 7300 Theory of Operations	Introduction to the functionality and features of 7300
BC-804 7300 R5.60.70 - Release Readiness Training	This curriculum provides an introduction to new functionality in 7300 release 5.60.70

3.16 OTC 2.0

Course Name	Course Description
BC-610 – OTC 2.0	This curriculum introduces the Optical Timing Channel 2.0. The module provides information about the timing and synchronization possibilities provided by the solution.