DRAFT Mini-PoP Operator

2. Identification Number (ID)
916

3. Purpose of the Course

Disclaimer: This DRAFT course description is under development with the Office of Primary Responsibility (OPR).

The course is designed to give NATO Deployable CIS (DCIS) Operators confidence in safely and securely operating and maintaining the DCIS Minor Point-of-Presence (“Mini-PoP”) supporting node to support Communications Services and Core Enterprise Services (CES) supported by DCIS. Operators will learn to integrate Wired Local and Wide Area Transmission Services and how it integrates with Wireless Transmission Services. To securely and efficiently operate the system, students will apply select Information Assurance Service aspects within the NATO Consultation, Command and Control (C3) Taxonomy in federated mission networks.

Training will enable students working at Operations and Maintenance (O&M) Levels 1 and 2. This course will not cover select Wireless Transmission Services and end-user devices.

This course is a small kit Deployment and System Training category course and should be considered after the pre-requisites and before the Special category specified, as illustrated, below:
4. Learning Objectives

Given the pre-requisites – see paragraph 16 – upon completion of the course, the qualified student will be able to:

- Describe the context of NATO Services in DCIS, and how this capability / system fits within this structure.
- Describe the context of Federated Mission Networking (FMN), and how DCIS and this capability / system fits within this structure.
- Describe the technical elements of this capability / system and relate his or her technology experience to NATO CES, Communication Services and Transmission Services.
- Describe and complete tasks with the selected supporting non-CIS equipment for this capability / system.
- Describe NATO SMC procedures and tools and their relevance to this capability / system and DCIS in federated networks.
- Describe the Information Assurance Services supporting solution and how it interfaces to the NATO network; Configure related devices supporting this capability.
- Define and apply the concept of converged CES Communications Access and Communication Transport Services on networks, security domains and NATO security (hardening).
5. Qualification

Upon completion of the course, students will be qualified to support NATO DCIS Exercise and Operations operating this capability and supporting Engineers.

Successful students may request privileges on NATO DCIS Networks through their assigned unit and using the established procedures with NCI Agency.

6. Student Criteria

The student will be accepted on the course if he/she meets all of the following requirements:

1. Be assigned to a NCS or NFS HQ or unit where the relevant NATO DCIS Services will be employed on operations and / or exercises;

2. The Student requires to meet the Background Knowledge Prerequisites for this course (see paragraph 16).
7. Rank

- Selected Officer
- NCO in an Operator Function
- Civilian equivalent

8. Language Proficiency

According to STANAG 6001: English SLP 3332

9. Security Clearance

NATO Secret (Students must provide proof of clearance upon registration)

10. Course Length

5 working days

11. Special Instructions

Students not meeting the assignment and background knowledge criteria may attend ONLY with the explicit recommendation of the NCI Agency Network Services and IT Infrastructure (NS & II) Service Line DCIS Service Operations Manager, provided they have met the security clearance requirement.

12. Class Size (Maximum/Recommended/Minimum)

8/6/2

13. Nomination Procedure

As posted on [www.nciss.nato.int](http://www.nciss.nato.int)
The course is conducted at the NATO Communications and Information Systems School (NCISS), Latina Italy.

Limited (one capability / system, only) mobile training may be requested through the established procedures.

16. Background Knowledge Prerequisites

**Essential Prerequisites:**

- This is a small team capability, requiring students having a broad skills and knowledge base to include having completed the:
  - Other CES:
    - Have passed the Deployable IS Foundation course 961
  - CES Unified Communication and Collaboration:
    - Have passed the Foundation Level NCISS course 095 or possess equivalent Voice over IP (VoIP) knowledge, skills and experience
  - Communication Services:
    - Foundation Level NCISS course 650 or the DCIS Network Foundation Course or possess Cisco Certified Entry-Level Network Technician equivalent knowledge, skills and experience
  - Transmission Services:
    - Have passed the DART Terminal course 051 or possess equivalent SATCOM terminal knowledge, skills and experience

**Desirable Prerequisites:**

- Experience with Information Assurance supporting devices like firewalls;

17. Modules
The following modules will be covered and include both theory and practical, hands-on lessons:

- Entry Test against theory pre-requisites
- Introduction to the capability / system hardware, and media (lecture and lab)
- Frame- and Packet-based Access and Distribution Service devices and configuration (lecture and lab)
- Packet-based Transport Service devices configuration (lecture and lab)
- Remote server-based CES and supporting end-user equipment (lecture and lab)
- CES Unified Communication and Collaboration and supporting end-user equipment (lecture and lab)
- Information Assurance and supporting equipment (lecture and lab)
- Daily capability / system functionality checks (lecture and lab) with Q&A session
- Operation and Maintenance (O&M) and SMC on Communication Service and CES devices (connection, backup/restore, troubleshooting – lecture and lab)
- Introduction and configuration of CES devices and configuration (lecture and lab)
- Final Exam (theory) and Crew Exercise establishing CES, Communications Services (to include Transmission Services) and safe handling of equipment (practical)