The purpose of this blended distance learning course is to provide military and civilian personnel supporting NATO CIS Communication Services with the fundamental knowledge and practical skills required to integrate, and securely operate, maintain and troubleshoot the basic technology supporting NATO Communication Services, as specified in the NATO Consultation, Command and Control (C3) Taxonomy in federated mission networks. These Communication Services include Transmission, Transport, and Communications Access Services in modern, converged Packet- and Frame-based networks.

Students explore how Deployable CIS (DCIS) supports the extension or deployment of intra-node and basic inter-node Communication Services (ComS) up to the scope of a Minor Point of Presence (PoP). Students acquire knowledge and skills required on future courses for capabilities and systems supporting these services. This course introduces NATO-specific Line of Sight (LOS) and Beyond Line of Sight (BLOS, such as Satellite Communications - SATCOM) Transmission Services. Further detail is given on the appropriate Transmission Services courses.

This course is a Foundation category course in the DCIS Training Framework, as illustrated, below; it serves as pre-requisites for a variety of courses:
This theory and practical, lab equipment supported, skill-focused course (twinned with the mandatory companion course NCISS Course 964) will provide the most cost-effective and efficient blended learning experience. The face-to-face nature of this course pair enables vital human networking between operators and maintainers.

Successful students will be prepared for an equivalent of the Cisco Certified Networking Entry-Level Network Technician (CC-ENT) level, the exam, which is not included in the course. Students may continue the training path to Deployment Training or System Level courses of the aforementioned PoP size. Students requiring more in-depth knowledge and skills on the inter-node Communication Services that support larger PoPs should attend courses 966 and 968, which cover the remaining material on the Cisco Networking Associate (CCNA) Routing and Switching (CCNA R&S)) as illustrated below:
4. Learning Objectives

Given the pre-requisites specified in paragraph 16, upon completion of the course, the student is prepared for further DCIS Deployment and System Level course and will be able to:

- Distinguish the NATO Services supported by DCIS systems, based on an overview of Concepts and major Architecture elements.
- Describe how DCIS Transmission Systems support DCIS or Static ComS Services, given a high-level Overview.
- Integrate select NATO DCIS routing and switching skills on the provided lab equipment.
- Apply device configurations on the provided hardware that typically support DCIS Node NU Core and LAN service provision.
- Appreciate the importance of NATO Security regulations and standards and CIS Security Services in the secure operation of NATO Communication Services.
- Configure NATO DCIS CIS Security Services on switches supporting secure Communication Access Services within a node up to a Minor PoP scope.
- Independently apply skills acquired throughout the course to support secure Communication Services and have the lab at your disposition.
Successfully complete the comprehensive assessments and configure routers and switches to support Communication Access Services within, and between, two Minor PoPs.

Appreciate the importance of continuing your training and continuous education secure operations of Communication Services.

Build and re-inforce the human network vital to successful Communication Services operations.

Note: Theory and practical exam on Industry standard and NATO-specific Communication Services will be administered, online, paper-based and in the lab, that assess knowledge and skills acquired throughout both courses.

5. Qualification

Given the prerequisites and successful completion, students are:

Qualified to attend NATO DCIS Deployment and System Courses up to and including Minor-PoP supporting Nodes.

6. Student Criteria

A student will be accepted on the course if they meet 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. Met the background knowledge prerequisites for this course.
3. Completed the mandatory companion course 964.

7. Rank

- Officer
- Non-Commissioned Officers (NCO) and Senior NCO involved in DCIS
- Civilian equivalent
8. Language Proficiency

According to STANAG 6001: English SLP 3332

9. Security Clearance

NATO Secret (Note this Secret Clearance is required for access to NCISS Latina. Most course material includes up to NATO Restricted material).

10. Course Length

1 week (5 working days)

The course is preceded by the mandatory online course (NCISS Course 964).

11. Special Instructions

Training Coordinators and student supervisors need to ensure that students can attend both the mandatory precursor and this course.

Students shall attend the companion course with the same iteration number. Training coordinators need to ensure students can attend both courses as scheduled.

Students will continue to require their online access for taking certain assessments. Students use NCISS provided hardware and software to access the Networking Academy with the credentials they created in the preceding course. Students will be introduced to the lab communication services equipment upon arrival.

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 Delivery Manager, provided they have met the security clearance requirement.

12. Class Size (Maximum/Recommended/Minimum)

8/6/4
13. Nomination Procedure

Upon registration as specified on www.nciss.nato.int students are recommended to add an e-mail account they could access after duty hours to the Comment field of the Joining Report.

14. Pre Course Study Material

- None – but the preceding NCISS Course 964 must have been completed.

15. Location

The course is conducted at NCISS Latina.

Limited (simulation-based) mobile training may be requested through the established procedures.

16. Background Knowledge Prerequisites

**Essential Prerequisites:**

- The student must have completed the NCISS CIS Course 964 and meet the related pre-requisites.

**Desirable Prerequisites:**

- N/A