1. Course Title
NATO X-Band Transportable Satellite Ground Terminal (TSGT) Generation 3 (G3) Operator Level II.

2. Identification Number (ID)
0052

3. Purpose of the Course
To provide military and civilian personnel with knowledge and skills to perform field level preventive and corrective maintenance for the:

NATO TSGT G3 Equipment.

Repair actions are limited to the replacement of the Lowest Replaceable Unit (LRU) sub-assembly. Maintenance levels will be to level 2 without supervision and assist CSSC (CIS Sustainment and Support Centre) in level 3 Maintenance. This will reduce the interventions required by the CSSC and extend the duration between PMI’s hence: Enhancing the overall internal capability of the end users.

4. Learning Objectives
Upon completion of the course, the qualified student will be able to perform level 2 preventive and corrective maintenance on the assigned TSGT G3 equipment, including but not limited to and where applicable: LRU replacement and basic calibrations (e.g. setting limit switches, EMS (Electronic Protective Measure Modem System) and ASNMC (Advanced SATCOM Network Management & Control) system basic upgrade and fault finding, MACS (monitor Alarm and Control System) operation & maintenance, system power measurements, modem firmware upgrades, ACU configuration & fault finding.

5. Qualification
NATO SATCOM TSGT G3 Operator Level II

6. Student Criteria
1. Been assigned to a NATO or National Signal Establishment with the role of technician or Operator,
2. Successfully completed the TSGT G3 Operator Course 0043 and have a minimum 6 months practical experience using the TSGT G3 in operations/exercises.
3. Have met the Background Knowledge Prerequisites (see item 16)
4. Knowledge of the general safety procedures for working with hazardous voltages.

7. Rank
• Officers
• NCO’s
• Civilian technicians and engineers

8. Language Proficiency
Language Proficiency according to STANAG 6001: English SLP 3232 and a detailed knowledge of the applicable English electronic terminology.

9. Security Clearance
NATO SECRET

10. Course Length
5 working days

11. Special Instructions

12. Class Size
• Maximum
• Recommended
• Minimum
6/6/3

13. Nomination Procedures
See joining instructions and nomination procedure on www.nciss.nato.int

14. Pre-course Study
Material
Student has to complete the SATCOM basics (ID 601) course at https://jadl.act.nato.int/
There will be an Exam on arrival questions are taken from the above on-line training and on the New X-Band TSGT 043 training.

15. Location
The course is conducted at the NATO Communications and Information Systems School (NCISS), Latina Italy.

16. Background Knowledge Prerequisites
Basic Understanding of Mathematics (Simple algebraic equations, exponential & logarithms, Decibel Notation), Electronics (Basic components, Telecommunications principles (RF, Multiplexing, Modulation, Error detecting and correcting techniques), Reading and interpreting electronic/electrical diagrams, and Test Equipment Usage.

17. Modules
N/A