



NATO MODELLING & SIMULATION CENTRE OF EXCELLENCE

Piazza Villorresi, 1 - 00143 Rome

www.mscoe.org



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TO: See Distribution List

SUBJECT: **2ND NATO Modelling & Simulation COE seminar “STK for military applications”, Rome, 02-06 November 2026..**

DATE: 20 July 2026

REFERENCE(S): A. NATO M&S COE Program of Work 2026.
B. Bi-SC Education and Individual Training Directive 75-7

1. In accordance with Reference A, It is my pleasure to inform you that the NATO Modelling & Simulation Centre of Excellence is organizing the 2ND edition of the seminar “STK for military applications” from November 2 to November 6, 2026. STK is a software for digital mission engineering and systems analysis, which allows to model and simulate complex systems in their operational environments. STK provides capability to model complex systems inside a realistic, time-dynamic and three-dimensional simulation that includes high-resolution terrain, imagery, RF environments, and more. The seminar aims to provide knowledge and skills to operate the STK fundamental operator functionalities for military applications.
2. The STK seminar is an initiative of the NATO M&S COE in cooperation with GM Spazio company and fulfil part of the NATO M&S future requirements.
3. The seminar will be carried out at the M&S COE premises in Rome with 20 available seats assigned on a “first come, first served basis”. Students are encouraged to **register no later than 16 September 2026**.
4. For registration and administrative instructions, please check the “Admin Instructions” at: <https://www.mscoe.org/courses/stk-course>. Should there be any clarification needs, the seminar POCs are: **CDR (ITA N) Dino D. TROPEA**, E&T Section Chief, Tel. +3906469124383, e-mail: mscoe.det06@smd.difesa.it; **LTC (ITA Army) Piergiorgio VENTURA**, CD Section Chief, Tel.+3906469124387 e-mail: mscoe.cde02@smd.difesa.it; **LTC (ITA A) Saverio Flore** Support Branch and Security Officer Tel +39 06 4691 24389, e-mail: mscoe.sp01@smd.difesa.it.


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SEMINAR TITLE: "STK for military applications"

AIM: This five-day seminar offers a practical and structured introduction to ANSYS's Systems Tool Kit (STK) to model and analyze aerospace and defense scenarios across the air, space, and electromagnetic domains. Aimed at professionals involved in mission design, operations, and system analysis, the seminar blends theoretical foundations with hands-on exercises to build confidence in the use of advanced simulation tools.

Participants will work on realistic scenarios involving aircraft operations, satellite maneuvers, radar systems, and communication links, progressively developing multi-domain simulations that reflect current operational challenges. Key STK modules such as Aviator, Astrogator, and Communications will be used throughout the seminar to provide a complete overview of the platform's capabilities.

The fourth day is focused on Shield Master, a software solution developed by GMSPAZIO for missile defence network analysis. Through Shield Master, participants will gain an understanding of threat modelling (including ballistic, cruise, and hypersonic missiles), radar coverage simulation, and defence system deployment. In the last part of the seminar, the NATO M&S COE's Electromagnetic Layer for Multi-domain Operations (ELMO) will be presented.

By the end of the training, attendees will be equipped to independently design and evaluate complex aerospace and defence scenarios using STK and to explore advanced capabilities related to missile threat response planning with Shield Master.

Date: 02-06 NOVEMBER 2026.

Duration: 1 week

Seminar structure: Resident

Target Audience: Personnel from NATO Bodies and NATO Nations, possessing experience in modelling and simulation

- a. **Rank Level:** Officers (OF), Other Ranks (OR), Civilians
- b. **Language Proficiency:** English: 3,3,3,3. IAW STANAG 6001
- c. **Pre seminar knowledges:** NA

Classification: NATO UNCLASSIFIED

DISCIPLINE: Modeling & Simulation

Area: Simulation Systems.

ADMIN NOTE: See Administrative Instructions published on the M&S COE web site

