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C-IED CoE Newsletter



**Counter Improvised Explosive Devices
Centre of Excellence**



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GENERALITIES

It is the vision of the CoE to use a Comprehensive Approach to face up the challenge, with the support of not only military personnel, but also the contribution from law enforcement, police, intelligence community and civilians from research & technology industry and Academy. The synergy of all these elements will contribute to the identification of terrorist/insurgent networks.

The C-IED CoE is the natural venue for all C-IED issues in NATO arena. The Centre is involved in related working groups in NATO and cooperates with the European Defence Agency C-IED Project Team, in order to create synergies between both organizations.

The C-IED CoE mission is to provide subject matter expertise in order to support the Alliance, its Partners, and the International Community in the fight against IED and co-operate to increase security of Allied Nations and also all the troops deployed in theaters of operations, reducing or eliminating the threats from improvised explosive devices used or for use, in particular by terrorists or insurgents. Products and services are focused on the analysis of IED information, the investigation and development of new material and technology, and education and training.

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C-IED COE HIGHLIGHTS

C-IED Annual Discipline Conference (ADC)

Based on the requirements and general guidance of the Requirement Authority (SHAPE), the NATO C-IED COE as the Department Head for the NATO C-IED discipline is responsible for coordinating NATO education and training (E&T) efforts in the field of C-IED. The aim of the ADC was to brief participants on the C-IED mission, priorities, strategic plan and update on the status of existing operational (NATO) C-IED requirements for E&T as well as to discuss proposed new requirements. The 10th ADC was held on site from March 7th to 8th, 2023. The objectives to have a solid information sharing and to have fruitful discussions about current and possible future NATO C-IED E&T requirements were achieved in a very professional and open-minded conference.



As a key point it was discussed that in order to get the maximum benefit from E&T activities and to be able to deliver these trainings in the most effective and efficient way, understanding and awareness of the task of C-IED has to be present at all levels. Furthermore, C-IED needs to be considered as an overarching staff activity and integrated in INTEL and OPS.



C-IED COE LESSONS LEARNED WORKSHOP 2023

From 06 to 08 of June 2023, the Center of Excellence Counter Improvised Explosive Devices (C-IED CoE) has brought together 40 experts from 15 nationalities for three days in its biennial lessons learned workshop (LLWS) at its facilities in Hoyo de Manzanares.

Inaugurated by the Colonel Director, Javier Corbacho Margallo, the workshop has had the objective of contributing to the process of Lessons Learned from NATO. Also increase knowledge of the missions that different nations/



agencies carry out in countries with IED threats to facilitate and strengthen interaction in the international C-IED community.

The workshop has been structured into four panels that have dealt with the evolution of the C-IED concept, Technical Exploitation in support to Attack the Networks, initiatives and trends in Education and Training, and Research and Development in C-IED. The panels have been developed through lectures given by experts in the field and a subsequent debate and exchange of ideas.

The workshop lasted three days and highlighted the usefulness of the lessons identified and made a commitment to disseminate the results obtained to the entire C-IED community. The organization of this workshop is part of the firm commitment that the C-IED COE maintains with





the community of Lessons Learned from NATO, in accordance with what is established in its doctrine and policy on the matter. Proof of this commitment, in addition to the organization of this workshop, is the close collaboration with the NATO Joint Analysis Center and with the NATO community of Lessons Learned in Education and Training. Additionally, the C-IED COE contributes and supports the development of new Alliance tools in terms of lessons learned, such as the NATO Observation Collection and Analysis tool, or the new NATO LL toolset.

25TH NATO COUNTER-IED WORKING GROUP MEETING

The 25th meeting of the Counter-Improvised Explosive Device Working Group (C-IED WG) was held in Stockholm (SWE) over the period 19-29 June 2023. Organized by the NATO standardization Office, chaired by Col KAVANAUGH (US) and supported by the CIED CoE, the aim of this meeting was to update the review of the STANAG 2294 (ACIEDP-01) on “Countering Improvised Explosive Devices Training Requirements, present an update the review process on STANAG 2295 (AJP-3.15), discuss on the SD1 and way ahead, in accordance with the Allied Joint Doctrine Campaign Plan Manager (AJDCPM), present an update of review process the STANAG 2623 (AMWDP-1) on “Military Working Dog (MWD) Capabilities”, update the Countering Improvised Explosive Devices Common Training Model (CCTM) as a training tool and support the derived activities in relationship to the Technical Exploitation Interoperability Standardization Agreement after the approval of the NATO Technical Exploitation Policy. It was also the place to deliver the MCLSB priorities, CIED WG program of work, continue to strengthen relationships between CIED’s community.



COURSES AND TRAINING

WIT COURSE ITERATION 23#1 ROMANIA

The C-IED COE conducted 2023's first WIT course 09-26 May in Ramnicu Valcea, Romania. The Romanian Engineering and EOD Training Center was used to host the course conducted by C-IED COE, according to the VNCF WIT Training 2022-23 Executing Agent Agreement. For the participating nations, this type of course is an excellent opportunity to understand the NATO exploitation process and to train WIT operators, to enhance their national WIT capability building process. C-IED COE continues to support nations that have not yet fully developed Level 1 capabilities and to explore new technologies throughout its WIT courses, improving existing procedures and enhancing efficiency.



CSOC 23.1 AND 23.2

Two iterations from CIED Staff Officer Courses (CSOC) were held during the 1st semester, the first took place in CIED CoE from 27 to 31 March 2023, with attendees from eleven nations (BEL, CAN, ESP, GBR, GRC, NLD, TUR, HUN, CZE, POL, ROU), the second iteration of CSOC took place in CIED CoE from 19 to 23 June 2023, with attendees from eleven nations (BEL, CAN,



CZE, ESP, FIN, GER, GBR, LAT, NLD, POL, TUR). The courses started with the academic foundations of countering IEDs throughout the first half of the week. From the second day the group is divided into three syndicates and are tasked to solve operational problems supporting the commander's decisions either within the planning process or during the conduct of the operations. All students from two iterations of the course graduated successfully.



NATO INTELLIGENCE COURSE

C-IED COE personnel trained in NATO School Oberammergau, Germany, during the 1st iteration of the NATO Intelligence Course for 2023. The course took place between 22 and 27 of January and is delivered six times annually.

A total of 64 trainees participated, both military and civilian. The course covers the foundational level on the NATO Intelligence Cycle.

C-IEDCOE personnel had the opportunity to receive both theoretical and practical training, and make best use of the equipment, facilities, and



overall organization of the NATO School. Furthermore, C-IED COE personnel had the opportunity to share and receive experiences from both trainers and trainees of a high level of professionalism. Overall, C-IED COE personnel enhanced knowledge and skills and benefited mutually throughout the course, networking and sharing of expertise.

OPEN SOURCES INTELLIGENCE PRACTITIONER COURSE

The first iteration of the Open-Source Intelligence (OSINT) Practitioners Course for 2023 took place in the Oberammergau NATO School in Germany. This course is classified as NATO SECRET, was a training event that lasted one week and took place between 09 and 13 of January 2023. Thirty students from various backgrounds provided a diverse training audience. C-IED COE personnel that participated had the opportunity to enhance its competencies in conducting OSINT collection within the framework of the NATO Intelligence Cycle, with hands-on practice throughout. It also benefited from the equipment, facilities and overall organization of the NATO School and enjoyed the opportunity to interact among other professionals of a similarly high level of professionalism, expertise and application of best practices.





ANALYST NOTEBOOK USERS COURSE 23 1

The first iteration of this course in 2023 was held from January 30th to February 3rd. The audience was composed by Law Enforcement Agencies (6) and Military forces (4). According to their nationalities were ESP (5), TUR (2), GRC (1), ITA (1) and CAN (1). The aim of the ANUC is to provide attendees with the theoretical and practical knowledge about the Analyst's Notebook® software as a widely used software tool by intelligence analysts. Its intent is to train Military and Law Enforcement personnel involved in network analysis processes in their respective Units, Headquarters and Organizations.

ATNOC 23.1

The C-IED COE conducted another iteration of the Attack the Network Operational Course (ATNOC) in the period of 6-17 March 2023 with 20 students from eight nations. Supported by internal CoE C-IED mentors/briefers and external lecturers; the C-IED COE could also count again on the support of the ESP Joint Special Operations Command (JSOC, MCOE). For the first time JFC BRUNSSUM supported the course with an external lecture given via VTC. The ATNOC provides NATO Staff Officers/Senior Staff Assistants from C-IED/Intel/Ops/Plans or other Counter terrorism related disciplines, from tactical and operational level commands as well as personnel of Law Enforcement and Intelligence Agencies with AtN related Situational Awareness. Emphasis concentrates on knowledge and skills to integrate and facilitate the comprehensive AtN approach across other HQ processes and disciplines (e.g. NATO OLPP, intelligence, targeting and exploitation processes) in order to recommend lethal and nonlethal ways to engage all networks (threat, neutral and friendly) and to assess on the engagement effects.

DOMEX 23.1 AND 23.2

Due to the overwhelming amount of applications received for the initial planned iteration in April 2023, two iterations were held during the first semester from the DOMEX Collection and Processing in Support to Attack the Networks Course. The first was held from 17 to 28 April 2023, the second from 22 May to 02 June 2023, both at the C-IED CoE & San Marcial Division premises in Hoyo de Manzanares and Burgos (Spain).

The two-weeks course covered overall DOMEX disciplines (DOCEX, MEDEX, CELLEX and UAV exploitation) by lectures focused on detection, collection, processing, exploiting and disseminating information gathered from collected items. The second week of the course included practical scenarios where the instructors supported attendees developing the skills needed as DOMEX specialists. Attendees run through different scenarios simulating a complete incident environment, conducting the scene investigation, processing the items collected and finalizing with a basic analysis to understand the complete process.

During the first iteration, the support provided by Spanish San Marcial Division, Spanish National Police, Guardia Civil, Spanish Army (RINT-1) and USAREUR-AF (USA) have being highly appreciated and added value to fulfill the training requirements providing to the students skills in a high operational environment. The program allows to develop national capabilities filling the existing training gaps across the NATO member countries and Partners.



EXERCISES

BISON COUNTER 23 INITIAL PLANNING CONFERENCE

Exercise BISON COUNTER 23 (BC23) is a European Defence Agency (EDA) sponsored Counter Improvised Explosive Device (C-IED) Live Exercise. The BC23 is built up in a Conventional Warfare scenario with asymmetric threats.

It is a Field Training Exercise at the Operational and Tactical Levels that Involves the deployment of a tailored Combined Joint Task Force Headquarters (CJTF-HQ), a Task Force (TF) CIED, a manoeuvre Unit and the Joint Deployable Exploitation and Analysis Laboratory (JDEAL), reinforced by Navy and Air Force capabilities.

The aim of the BC23 is to train the full spectrum of the C-IED concept in multi-level and multi-domain scenario with a complete panoply of activities covering the three C-IED pillars.

C-IED COE attended the BISON COUNTER 23 initial planning conference 13-19 of February with three SMEs in order to support the planning process and identify possibilities for a C-IED implementation.

The scenario in the exercise provides a challenging complex environment and a good opportunity for a C-IED implementation, in case Bison Counter 2023 would include the operational level (Combined Joint Force Headquarters) as Training Audience.

MARSEC 23 MAIN AND FINAL PLANNING CONFERENCE

Exercise MARSEC-23 is the 2023 iteration of a recurring multinational and interagency Maritime Security Exercise. Set in a fictionalized environment it is intended as a platform to provide advanced training opportunities for participating maritime security invested organizations/entities and relevant staff, to enhance interoperability among maritime security stakeholders, allowing also for experimentation of discrete events for concept development processes.

Aside from more customary maritime security subjects (e.g. maritime terrorism, maritime critical infrastructure, piracy and robbery at sea, smuggling, IUU fishing, etc.), the novelty theme of the present iteration is conducting a collaborative MSO by an AOI/JOA maritime security architecture and an out-of-region multinational force. Exercise MARSEC-23 provides operational/tactical training for entities and staffs in planning and conducting Maritime Security Operations (MSO) and supporting Maritime Situational Awareness (MSA) efforts, in the shape of a Computer Assisted (CAX augmented) Command Post Exercise (CPX), inviting also the perspective of law enforcement, maritime security related agencies/actors, and relevant International and Non-Governmental Organizations (IOs and NGOs).

Additionally, it supports establishment and/or development of vertical and lateral consultation, coordination and cooperation between stakeholders, as well as supporting concept experimentation.

C-IED COE attended the MARSEC 23 Main Planning conference (MPC) and MEL/MIL 13-14 of March with 1 SME in order to support MARSEC COE with the implementation of a credible C-IED implementation as one of maritime security challenges in MARSEC 23 exercise.



During MPC, MARSEC 23 OPR was introduced to FTTN and provided with an initial draft of the TN. A proposed C-IED storyline was presented and handed over to the OPR.

During the Final Planning conference (FPC) MARSEC 23 OPR continued to provide with FTTN and the required inputs for a TN creation and developed proposals for the scenario and injects in order to achieve a C-IED approach at the operational level.

Even with the main focus on counter piracy and general maritime security, four incident lines relating to C-IED were approved.

TECHNICAL INTEROPERABILITY EXERCISE 23 INITIAL PLANNING CONFERENCE

The C-UAS Technical Interoperability Exercise (TIE)-23 will occur during the period 12-22 September 2023 at the Lieutenant General Best Barracks, in The Netherlands.

C-IED COE attended the Counter UAS Technical Interoperability Exercise (TIE 23) initial planning conference in order to identify possibilities to support C-IED components in the exercise.

UAS systems are frequently used as delivery method of IEDs and poses a threat to troops and third parties. The Center monitors this development closely in order to support development of countermeasures and TTPs.

EXERCISE STEADFAST JACKAL 2023 – MEL/MIL

The C-IED CoE, in its role as Department Head for the NATO C-IED disciplines, attended the Main Event List/Main Incidents List Incident Development Workshop (MEL/MIL IDWS) at the NATO Joint Warfare Centre (JWC) in Stavanger, Norway, from June 12-14, 2023. The MEL/MIL IDWS was conducted in preparation for the NATO Exercise STEADFAST JACKAL (STJA) 23. The task for the C-IED CoE was to support the integration of C-IED (in its full spectrum) as a training objective in the exercise and to support the implementation of a C-IED storyline in the context of a threat network. The aim of this support is to increase awareness and understanding of C-IED within collective training and exercise events.

As a key outcome of the WS, JWC representatives highlighted the importance of involving C-IED-SMEs in the early stages of the planning process, so that the desired training effects can be beneficially integrated into the training settings and adapted to the right level for the training audience. The C-IED CoE underlined the willingness to provide continuous support right from the first planning steps.

CONFERENCES, SEMINARS AND WORKING GROUPS

7TH ANNUAL DISCIPLINE CONFERENCE MILENG

The 7th MILENG Annual Discipline Conference (ADC) was conducted on 29th – 30th Mar 2023, hosted by the Explosive Ordnance Disposal Centre of Excellence (EOD COE) in Trenčín, Slovak republic. The aim was to inform attendees about the status of existing NATO education and training (E&T) requirements, discuss proposed new requirements and align MILENG/EOD E&T with the agreed training needs. As main outcome from the ADC, an update in the Strategic Training Plan was requested from ACT/JFD. It was stated the necessity of having



updated Job Descriptions as the origin of requirements as well as the reinforcement of the relationship between the Individual and the Collective Training. The aim of these conferences and the reason for the CIED CoE to attend is information sharing and discussion within the stakeholder community, so as to align efforts to develop and sustain our Disciplines. and align MILENG/EOD E&T with the agreed training needs. As main outcome from the ADC, an update in the Strategic Training Plan was requested from ACT/JFD. It was also discussed the necessity of having updated Job Descriptions as the origin of requirements as well as the reinforcement of the relationship between the Individual and the Collective Training. The aim of these conferences and the reason to attend is information sharing and discussion within the stakeholder community, so as to align efforts to develop and sustain our Disciplines.

ELECTRONIC IED WORKSHOP

The Electronic IED Workshop from 07 to 10 March was a successful event for both the C-IED COE and the NCO Academy, where attendees increased their skills on electronic IED training aids manufacturing. It was a four days event focused on providing a comprehensive approach in both fundamental and advanced topics of IED circuit design, and manufacturing of superior electronic IED training aids.

Lessons identified will be used used to improve the next technical courses/workshops. The C-IED CoE continues supporting C-IED Community of Interest by delivering this kind of events, which enhance C-IED training and increase C-IED comprehension among Allies.



SPATIAL COMPUTING FOR C-IED WORKSHOP

The Netherlands Defense Expertise Centre (DEC) CIED held a workshop dedicated to bridging the concepts of Spatial Computing with the needs of the CIED field. It took place at the Marine Establishment Amsterdam (MEA) in Amsterdam on 7-9 March 2023. The Workshop explored the combining of CIED with Spatial Computing techniques. Spatial Computing is the technical term for applications already in use every day. The use of things such as virtual reality headsets, cellular phone navigation as well as phone applications such as Uber, are simple examples. Concepts that connect technology over multiple devices utilizing location, time, and data. Current military application can be seen in devices such as drones and flight simulators. The most fruitful portion of the event was day two, when the workshop was split into three groups, centering on the three pillars of CIED. From the three groups, much discussion was had amongst the industry and CIED counterparts. Ideas were proposed and possibilities were identified. On day three, all groups came together, and a list of concepts/ ideas were to be narrowed down and pitched to industry to see feasibility. Unfortunately, due to the short day and the amount of side discussion during this day, only three main ideas were able to be discussed. These were a potential GPS system for IED incidents similar to that of Waze, an augmented reality (AR) system for mission planning, and the implementation of training scenarios through AR.

NTEG MEETING WITH INVITEES

The NTEG met with invitees on 29 October 2023 at NATO HQ in Brussels, Belgium. The purpose was to review progress of work under the NATO Technical Exploitation (TE) Program of Work Implementation Plan and share information about TE related training and events. The agenda of the meeting was split within two sessions



with different target audiences: Partner session (Open to invitees, Australia, Austria and Israel) and NATO session. The United States briefed on Serial 2.4 Flagship Activity Martial Vision TE Exercises and Experimentation Roadmap. The United Kingdom briefed on Serial 9.2 Flagship Activity UAS Exploitation, which aims to harmonize TE of UAS activities across the Alliance. The JISD Co-chair presented the progress made and the schedule for the NATO Military Committee TE Policy.

Belgium briefed on the Doctrine Engagement Plan, calling attention to the importance of influencing doctrine via national representatives to the respective custodian groups.

The C-IED CoE presented its TE-related activities including the Technical Exploitation in Water Environment (TEWE) Seminar & Trials, the DOMEX and Advanced DOMEX courses, the WIT and WIT Training Developer courses and the upcoming C-IED Lessons Learned Workshop.

NATO LESSONS LEARNED SPRING WEEK 2023

The CIED CoE Lessons Learned section chief participated in the annual NATO Lessons Learned Spring Week 2023 (NLLSW23). It has been hosted and supported by the NATO Crisis Management and Disaster Response COE. It has been conducted in-person in Sofia (BUL) from 28-30 Mar 2023. This event gathered personnel from NCS, NFS and COEs.

The aim of the event is to identify challenges and opportunities for improving LL collection, exploitation and sharing within NATO and with NATO-affiliated International Military Organizations (e.g. COEs, NFS HQs) as well as to reinvigorate the existing LL network.

CIED COE maintains an active posture in fostering and improving the NATO LL process and support every NATO LL activity.

COGNITIVE AUGMENTATION FOR MILITARY APPLICATIONS NIAG SG 278

The main goal of this study is to investigate how to augment NATO individual and collective cognitive capabilities to ensure cognitive superiority as we consider effects of Cognitive Warfare (CogWar) attacks on normal human cognitive processes.

ACT has tasked the NIAG SG-278 group to investigate tools, methods, and technologies to enhance cognitive augmentation for military applications.

The main goal of this study is to investigate how to augment NATO individual and collective cognitive capabilities to ensure cognitive superiority as we consider effects of Cognitive Warfare (CogWar) attacks on normal human cognitive processes.

In NATO doctrine, the Information Environment (IE) is composed of three dimensions: the physical, the virtual, and the cognitive. The Internet and social media provide new ways of constructing realities for actors, audiences, and media.

The study group endorsed ACT's final study NIAG SG 278 ON COGNITIVE AUGMENTATION FOR MILITARY APPLICATIONS which contains the four subgroups, the practical cases, the methodology and the conclusions.

CIED's pillar, Attack the Network, is fundamental to understand the human relations and how audiences are affected by CogWar. Supporting this study, the CIED CoE participates in the vanguard of thinking.



MULTINATIONAL SOLUTIONS SYNCHRONIZATION CONFERENCE

From 04 to 06 April 2023, the Multination Solutions Synchronization Conference (MNSSC), organized by ACT/SPP/DP, was held at the DAP Hotel in Prague (Czech Republic).

About 120 attendees from NATO/ACT/Strategic Plans & Policy, NATO I&MS, representatives of NATO Nations meet to provide to Defence planners the latest developments in the NATO Defence Planning Process (NDPP), NATO Warfare Capstone Concept (NWCC) & Warfare Development Agenda (WDA), to provide visibility on current multinational projects & initiatives, to provide a venue to collaborate on future multinational endeavors and to synchronize allied efforts for future capability development.

The aim of the MNSSC was to facilitate a discussion on how to prioritize and synchronize multinational capability development activities across all stakeholders. It was also to facilitate the sharing of best practices – WHAT WORKS AND WHAT DOESN'T- and to help provide capability development stakeholders, representing both NATO entities and the Allies, to get increased insight on the already ongoing initiatives across the Alliance to minimize duplication.

ACT/SPP/DP presented a list of 63 high visibility projects. Among all projects, 25 projects were selected, based on the feedback received from the nations. Three of them are CIED linked (038: Enhanced C-IED Tactics, Techniques and Procedures (TTPs), 039: Advanced C-IED Simulation and Training Tool, 040: Enhanced IED detection and neutralization). The CIED CoE will engage ACT Smart Defense in the high visibility multinational programs to support the development of the three selected CIED projects.

UPCOMING EVENTS 2023 - 2024

C-IED COE courses planned for 2023 - 2024

This is the C-IED COE planning for the reminder of 2023 and start of 2024 with regard to courses approved by the Steering Committee. Below dates may change due to unforeseen reasons. No rights can be inferred according to this schedule.

2023

NOV	13	NOV	17	ESP	A-DOMEX	10 seats available	5 days course
NOV	13	NOV	17	ESP	Analyst Notebook Users Course (ANUC) 23.3	15 seats available Military, Law Enforcement members & civilians analysts	5 days course Not classified No Fee
NOV	20	DEC	01	ESP	AtN Operational Course (ATNOC) 23.2.	24 seats available C-IED Staff Officers and Senior Staff Assistants.	10 days course NATO Approved No Fee
DEC	11	DEC	15	ESP	NATO Weapons Intelligence Team Training Developer Course (WIT TDC)	12 seats available C-IED Staff Officers and senior Staff Assistants.	5 days course



2024

JAN	29	FEB	02	ESP	Analyst Notebook Users Course (ANUC) 23.1	15 seats available Military, Law Enforcement members & civilians' analysts	5 days course Not classified No Fee
MAR	04	MAR	15	ESP	AtN Operational Course (ATNOC) 23.1	24 seats available C-IED Staff Officers and Senior Staff Assistants	10 days course NATO Approved No Fee
MAR	06	MAR	07	ESP	Annual discipline conference		
MAR	25	MAR	29	ESP	C-IED STAFF OFFICER COURSE (CSOC) 23.1	24 seats available C-IED Staff Officers and senior Staff Assistants	5 days course NATO Approved No Fee
APR	15	APR	26	ESP	DOMEX-course 23.1	12 seats available Open to military	10 days course NATO Listed No Fee
MAY	7	MAY	24	ROU	NATO Weapons Intelligence Team Course (WIT) 23.1	20 seats available OF 1-3 and OR 4-8 and	13 days course NATO Approved 125€ (for non-VNCF) (TBC)
JUN	04	JUN	06	ESP	LLWS		
JUN	17	JUN	21	ESP	C-IED STAFF OFFICER COURSE (CSOC) 23.2	24 seats available C-IED Staff Officers and senior Staff Assistants	5 days course NATO Approved No Fee
JUN	24	JUL	28	ESP	Analyst Notebook Users Course (ANUC) 23.2	15 seats available Military, Law Enforcement members & civilians' analysts	5 days course Not classified No Fee

NOTE:

1. This is the C-IED COE planning for 2023 with regard to courses and events. The dates and locations could be subject for changes, the C-IED COE cannot be held liable for any consequences of change of dates or locations.
2. The events indicated in red are identified as C-IED COE's DIAMOND EVENTS
3. The proper save the date and calling letter for each event will be released in advance.
4. The VNCF WIT-program 2022-2023 has not yet been approved by NATO HQ. In case there is no program, the mentioned courses will not be executed.

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