ACTIVITY CURRICULUM	**Cybercrime – Advanced Windows file systems forensics: Train the Trainer** CEPOL 33/2023 Online part: 23 March-23 April 2023 Onsite part : 24-28 April 2023 CEPOL Cybercrime Academy, Budapest, HU

Organiser/Host	CEPOL in cooperation with ECTEG	
Host	CEPOL Cybercrime Academy hosted at International Training Centre (NOK-ITC) Böszörményi Street 21., H-1126 Budapest	
Online learning support	CEPOL's Law Enforcement Education Platform (LEEd)	
Activity Manager :	Silvia Smadova, Cybercrime Portfolio Manager Silvia.smadova@cepol.europa.eu	
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Number of Participants	26	
Number of Trainers	3	
Profile of Trainers	Experience in Advanced Digital Forensic Examination	
Overall Aim	To cascade the knowledge in area of advanced windows file systems forensics to the potential trainers in EU Member States and to train them how to deliver this type of forensics training. The content of the forensic part of the training aims to provide computer forensics practitioners with detailed knowledge on the recovery of investigation items from file systems and by allowing them to explain forensic tools reports and conduct searches beyond usual reported traces in order to establish a trace history, and potential use of anti-forensics.	
Target group	Experienced computer forensics practitioners who will be able to train other computer forensics practitioners in EU Member States on the topic of Advanced Windows File Systems Forensics.	
Learning Outcomes	After completion of the training activity, the participant will be able to:	Training Session
	1. Identify the characteristics of adult learning and recognise different approaches to learning	Online & onsite
	2. Recommend engaging teaching methods for various audiences	Online & onsite
	3. To deliver training on following learning outcomes	Online and onsite: outlined as below:

	a) Discover hidden file streams in NTFS file system	Day 1
	b) Rebuild deleted files history in NTFS file system	Day 2
	c) Rebuild fragmented deleted files in exFAT file systems	Day 3
	d) Explain and demonstrate difference between unallocated and deleted status	Day 3
	e) Rebuild logical level damaged devices by using simple python scripts	Day 4
	f) Foster better understanding and confidence in forensic service providers by making the law enforcement and justice communities more knowledgeable of the possibilities and limitations of forensic science, as well as of the current developments	All Sessions
Content (main topics/ sub-topics)	Adult learning and various teaching methods File Systems: NTFS: core concept, recovery of files and folder, File Systems: exFAT- core concepts and system files, exFAT– from concept to forensic interpretation of digital traces, Basic Carving, Advanced Carving.	
Horizontal topics	Andragogic	
Learning Strategy	The learning strategy is focused to support the participants to achieve the learning outcomes by following a learner-centred approach and interactive, participatory, practical and experiential principles in accordance with andragogic theory. The activity involves didactic learning through presentations by subject matter experts. Moreover the experiential learning by providing practical exercises will be largely utilised as well. This activity consists of **2 parts: online and onsite.** The online part will include self-study material and compulsory live session and will start on the 23rd March 2023. The onsite part will take place from 24-28 April 2023 in Budapest.	
Training Methods	☒ Presentations ☒ Practical exercise ☒ Assignments ☒ Case Studies	☒ Group Work ☒ Live Discussions ☒ Online Platform Discussions (in writing)

Assessment Strategy	The participants are asked to complete the Participant Profile. During the course the participants will be asked to deliver one small training session on topic(s) thought during the onsite course. This might be individual or group exercise. A summative assessment will be conducted by the participants at the end of the activity in form of online feedback, which is a condition for receiving the Attendance Certificate. The outcomes will feed into a Trainers' Report, which will be used for quality enhancement of the activity in future.	
Use of CEPOL LEEd (LMS) during the residential stage is mandatory for participants evaluation		
Pre-activity assignments on LMS	☒ Reading Lists ☒ Recorded Webinars	☒ Assignments ☐ Online Modules
Post-activity assignments	TBC	
Additional language to English	N/A	
Duration	Days: 5	Training Hours (onsite): 27 Total (including pre- and post-activity):
Learning environment	Training activity will take place in CEPOL Cybercrime Academy (CCA) hosted @ NOK ITC at address mentioned above. One classroom for 26 participants and presentation equipment.	
Technical requirements	For this activity, the participants are asked to bring their own forensic machines with software they use for forensic examination- **please inform us in advance which software you will bring**. We would like you to make the most of the training and that you will be able to use knowledge gained in your daily job.	
Additional information	n/a	