

MODULE NO	Назва модуля	Сфера застосування модуля
Кузнєцов Олександр	Specifics of the professional activities of a Junior Inspector-Technician for technical security equipment	1 ECVET Contact learning: ...4.ac/h Practical work: ...18.ac/h Independent learning: ...6.ac/h
The objective of the module: to develop students' professional competencies in the operation and maintenance of engineering and technical security equipment, and to enhance their ability to ensure the continuous operation of integrated security systems through expert installation, rapid diagnostics, and troubleshooting in accordance with technical regulations and safety requirements.		
Intended learning outcomes (knowledge and skills) The student:	Evaluation criteria Student:	Assessment methods and assessment criteria
Ensures the full operational readiness cycle of integrated security systems (security, surveillance, and CCTV) through their installation, scheduled maintenance, and rapid troubleshooting.	Independently performs installation, connection, and configuration of integrated security system components (intruder alarms, video surveillance, and access control) and carries out their scheduled maintenance. Identifies the causes and location of malfunctions in technical equipment using instrumental testing methods and performs full system restoration.	Assessment Method: Comprehensive situational task based on a scenario card (practical simulation exam using a training stand). The student performs the deployment of technical security equipment according to a given scenario, demonstrating the ability to independently carry out installation, wiring, and initial configuration of the equipment. Threshold criteria: – Follows the technological sequence of installing detectors and video surveillance cameras according to the provided diagram. – Correctly wires the circuits using the 2EOL/NC (double end-of-line / normally closed) configuration. – Correctly identifies a malfunction in one of the system elements by applying diagnostic algorithms. – Performs software configuration via the control panel (CIE) keypad and the video recorder, ensuring correct display of alarm signals and video streams. – Complies with safety requirements when working with electrical equipment and tools.

			– Verifies system operability by simulating zone violations (walking through, opening doors) and confirming signal reception at the monitoring station. – Avoids critical errors that could lead to equipment failure (such as reverse polarity of power supply or short circuits).	
		Content (topic):	Teaching and learning methods	Scope
		Topic 1. Regulatory requirements and operational procedures for technical security equipment. Topic 2. Security system architecture. (Satel Integra 64 structure and logic. Zone configurations (2EOL/NC). Installation and connection of detectors). Topic 3. Video surveillance systems. (Camera types, video recorders, network configuration). Topic 4. Diagnostics and troubleshooting.	Lectures, tutorials, independent study.	C – 4/h P – 18/h I – 6/h
Regulatory Framework: Order of the Ministry of Justice of Ukraine No. 2025/5 dated June 26, 2018, "On Approval of the Procedure for Using Technical Surveillance and Control Equipment in Remand Prisons, Correctional, and Educational Institutions of the State Penitentiary Service of Ukraine." Technical Standards: DSTU EN 62676-1-1:2014 Video surveillance systems for use in security applications. Part 1-1: System requirements — Video transmission operational requirements. DSTU EN 60839-11-1:2014 Alarm and electronic security systems. Part 11-1: Electronic access control systems — System and components requirements.				
Independent work in the module	Independent Study Topics: 1. Analysis of the regulatory framework. 2. Working with technical documentation and wiring diagrams for control and indicating equipment (CIE). Detailed analysis of circuit diagrams for control panels and Access Control System (ACS) controllers. 3. Network infrastructure for IP video surveillance.			
Formation of module grade	The module is assessed on a pass/fail basis. The module grade is awarded upon the successful completion of a comprehensive situational task based on a scenario card (a practical simulation exam using a training stand).			