LEONARDO CYBER & SECURITY SOLUTIONS

LEONARDO CYBER & SECURITY ACADEMY

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Leonardo's Cyber & Security Academy has been created with the aim of developing the skills and capabilities needed to recognise and deal with the new risks that threaten Countries security and to promote the awareness of institutions, enterprises and citizens by capitalizing on Leonardo's distinctive ability to operate in the major critical civil and military domains.

Leonardo's advanced training centre proposes an educational offering aimed at all the main players involved in the management of national security. By using a systemic approach, it develops a cultural network made up of integrated and shared security skills, which contribute to increasing awareness of new risks facing the country's security system.

The systemic approach to the Cyber & Security Academy context

CONTEXT

The security and sovereignty of States and international institutions are increasingly being threatened by disinformation campaigns, cyberattacks and military operations aimed at compromising essential services of social and economic ecosystems, in a coordinated and protracted manner.

Such threats pose a real danger to national security as they are extremely effective and low cost means leveraged by hostile nations or criminal groups to influence geopolitical balance, while being protected by a relatively strong anonymity.

To effectively counter this type of threats, it is necessary to create a cultural network made up of integrated and shared security skills that help raise awareness of the new risks among all the parties playing a key role in guaranteeing the Countries' security.

It is therefore essential to invest in training activities that, on the one side, strengthen security knowledge in terms of technologies, processes and regulations, and on the other, develop the 'human factor', enhancing the ability to share

and interpret information, which is crucial to effectively manage crises arising from attacks and incidents with large-scale impacts.

APPROCH, TECHNOLOGIES AND SKILLS

In this context, Leonardo Cyber & Security Academy is based on three pillars:

- **Education and Instruction:** the Academy combines two complementary approaches: instruction, for the acquisition of information, and education, for the enhancement of human value in terms of cooperation and problem-solving skills. This complementarity is crucial in the field of multi-domain security, where the ability to combine technical skills with cooperative behaviour is really strategic. A further unique feature of the Academy is its capacity to convey only the information that is really necessary based on each user, guaranteeing efficiency and effectiveness of the training activity.

- **Culture of Security:** the Academy promotes the security culture providing a high-profile educational offering aimed at all organisations that, with different roles,

are involved in security. Based on the skills gained by Leonardo's expert teams in various critical domains, it proposes a multi-perspective approach to the security topic so to ensure that students, companies, institutions and regulatory bodies have access to training courses specific to the context in which they operate.

- **Immersive Training Paths:** through the use of proprietary training platforms based on the simulation of real operational contexts, the Academy offers training paths that exactly fit the reality of each organisation.

- Cyber Trainer is an ecosystem providing training courses developed for a different type of users user – from non-expert personnel to those with specialist technical capabilities. From the identification of training needs to formal learning, from the practical application of acquired knowledge (through individual or group training sessions) to the certification of competences, the platform allows each user to keep up-to-date on the topics of greatest interest in a continuous and independent way.

- Cyber Range platform, developed by Leonardo, uses advanced virtualisation techniques (digital twins) to simulate extremely realistic and complex scenarios which enable the creation of both collaborative and competitive training experiences. This approach contributes to the continuous improvement of security operators' skills, through the execution of exercises based on the most advanced threats.

TEACHING TEAM

Hack Arena, Genoa Cyber & Security Academy

The Academy's teaching team is comprised of experts who are able to identify the most suitable training content and tools based on the users' needs (face-to-face, in-person and online lessons, video courses, training pills). In particular, the team includes:

- Trainers expert in critical security domains, in their processes and regulatory aspects. They will teach

learners how to adapt their organisation's security posture to current industry regulations and business objectives.

- Trainers expert in key technological domains, who have the objective to deepen the learners' knowledge of the most innovative technologies needed to reduce the risk exposure of the infrastructure in which they operate.

COURSE CATALOGUE

The Academy offers **Learning Paths,** that identify the different domains of specialisation that learners can undertake **on the most current global security topics** in terms of technology, regulation and methodological approach. The catalogue also provides a wide range of courses on less vertical subject areas, ranging from the development of soft skills to the acquisition of expertise in the most widely used technologies in the security field. In addition, the Academy delivers **Cyber Security Awareness** courses with the aim of providing a basic knowledge of cyber security concepts and best practices for non-experts in cyber security.

Testing, Genoa Cyber & Security Academy

Completing the Academy's course catalogue are the **Cyber Exercise** and **White Phishing** activities. While the first consists of exercises aimed at testing the participants' preparedness with regard to their organisation's security procedures, the second deliveries simulated phishing campaigns with the aim of measuring the employees' level of awareness with regard to cyber threats transmitted via e-mail.

The Academy's physical spaces, technological infrastructures and enabling platforms can be made available to customers **to organise events. It also enables them to design exercises, carry out simulations** and **training activities,** in the context of immersive scenarios to experience the most advanced cyber-attacks and defence techniques. In these specific scenarios **several companies can challenge each other in a competitive context** (Cyber Game) **and convey training content produced by third parties.**

The Academy also has a **Certification & Testing Centre** functional for obtaining certifications from the main hardware and software companies, and in perspective, also for products developed by Leonardo.

PHYSICAL SPACES

The main facility of Leonardo's Cyber & Security Academy is located in Genoa. Several premises are located within other sites of the Cyber & Security Solutions Division, including Chieti and Roma Laurentina, or at partners' sites.

Leonardo's Cyber & Security Academy employs dynamic space ergonomics that allow the creation of customised environments to promote information sharing and teamwork. All the Academy's physical spaces are also designed to support remote or hybrid training.

Relax Area, Genoa Cyber & Security Academy

WHY CHOOSE THE CYBER & SECURITY ACADEMY?

- Integrated and multilateral approach to global security issues that goes beyond the concept of delivering training content on specific topics.

- Training experience based on skills gained by Leonardo's security teams in critical domains.

- Context-driven training paths, implemented using proprietary training platforms based on the simulation of real operational contexts.

- Combination of technical and didactic skills to encourage information sharing and teamwork.

- Flexible and dynamic physical spaces designed to stimulate learners' collaborative approach

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