

CYRUS: your path to better cybersecurity

Training needs analysis & key findings

Training needs – Analysis & findings

This leaflet presents a summary of key findings from the first phase of the project, highlighting the most pressing cybersecurity training needs across the transport and manufacturing sectors.

How was the analysis performed?

To get a comprehensive overview, we conducted extensive field research across Europe:

- Surveys and interviews with 79 organisations and expert practitioners in the transport and manufacturing sectors
- 7 focus groups involving 40 external experts to dive deeper into specific challenges

The current state of cybersecurity training

Our analysis revealed significant gaps in current cybersecurity training offers:

- 23% of organisations have never delivered a cybersecurity course
- 44% have never provided any training or awareness course in cybersecurity
- Only 15% of organisations offered role-specific or regular in-depth courses to most staff in the last two years
- Just 3% of organisations managed to cover at least 90% of their workforce with any recent cybersecurity training
- Of the courses delivered, most were generic (38%) or focused on basic topics such as phishing (12%)

Core training needs identified

Organisations and experts highlighted several critical areas for improvement:

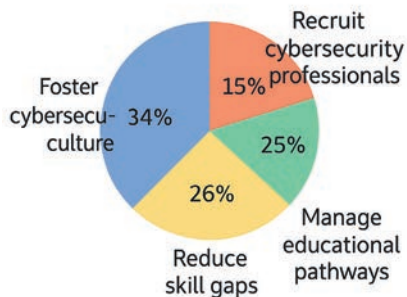
General needs

- Awareness of fundamental cybersecurity concepts is the top need cited by organisations and experts
- Change in employee mindset: addressing behavioural and cultural aspects, especially for non-technical staff and management
- A focus on practical skills; not only theory but also case studies and hands-on exercises

Sector-specific needs

The CYRUS analysis revealed distinct priorities across sectors. In transport, efforts should primarily focus on strengthening general cybersecurity culture, followed by reducing skill gaps and improving educational pathways. In manufacturing, culture and skills remain key priorities, but with a stronger emphasis on structured learning and workforce development.

Transport Sector



Manufacturing Sector

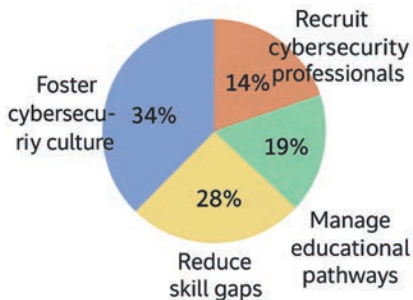


Figure: Training goals of the transport and manufacturing sectors

Non-technical roles, such as managers and executives, require basic knowledge of cybersecurity principles and awareness of secure behaviour. Technical roles, like engineers and software developers, require continuous training in advanced threat areas. Key skill domains include vulnerability management, cyber risk assessment, fostering a cybersecurity culture, and leading cybersecurity educational activities.

Takeaways

The CYRUS project's initial findings highlight several important points. There is a significant gap in basic cybersecurity training, especially in materials tailored to organisational roles. Awareness and culture change are just as significant as technical competence, yet non-technical roles remain critically underrepresented in most current training offerings. To address the diversity of skills and backgrounds across the transport and manufacturing sectors, customised educational pathways are essential.

Based on this analysis, the CYRUS team created a set of specialised cybersecurity training courses that are available for free and tailored to varied roles that can be found here: <https://cyrus-project.eu/cyber-security-trainings>

About CYRUS

The CYRUS project focuses on strengthening cybersecurity in the transport and manufacturing sectors with a special focus on SMEs. Through innovative learning methods, CYRUS empowers employees of all levels to mitigate cyber threats.



Visit our website to explore our full training catalogue and register for the free cybersecurity courses:

<https://cyrus-project.eu/cybersecurity-trainings>

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