



CodeIT first in Norway to test IEC's new digital infrastructure for IEC 62443 together with NEK.

For Norwegian businesses, NEK IEC 62443 is a pillar for securing industrial control systems, especially within critical infrastructure.

Oil/gas, electricity, transport, production

IEC 62443 is the leading international standard series for Cybersecurity in operational technology (OT) and industrial automation and control systems (IACS). The standard was developed by the International Electrotechnical Commission (IEC) in collaboration with the International Society of Automation (ISA). IEC 62443 provides a comprehensive risk-based framework for securing industrial environments throughout the entire system life-cycle, from design and development to operation, maintenance and decommissioning. It is designed to protect critical infrastructure (oil/gas, power, transportation, manufacturing) from advanced Cyber threats.

OT & CPS Cybersecurity

Cybersecurity for cyber-physical systems (CPS) and operational technology (OT) are closely related fields that both focus on protecting physical processes from digital attacks, but they have different scope and focus. While IT security (such as ISO 27001) often focuses on confidentiality, IEC 62443 prioritizes availability, integrity, and confidentiality in OT environments. It addresses unique challenges such as legacy systems, real-time requirements, and physical security. In CPS, IT and physical processes are tightly integrated.

IEC 62443 provides guidelines for securing these systems by preventing digital attacks from having physical consequences.

CodeIT

Founded in 2011, the same year the term "Industry 4.0" was coined, CodeIT has seen Industry 4.0 evolve from a futuristic buzzword to a practical and essential strategy for robust manufacturing. At CodeIT, the drive has always been to help customers reap the benefits of Industry 4.0 by providing specialized software and services that turn factories into "smart factories" through improved connectivity, data utilization and automation.

CodeIT focuses on bridging the gap between industrial operations (OT) and information technology (IT) to improve traceability, efficiency and flexibility in production.

CodeIT puts Cybersecurity high on the agenda and has developed a robust OT Cybersecurity solution that has passed DNV Cyber penetration testing and is now used by Aker Solutions and Aker BP in O&G. CodeIT's SaaS Cyber service is designed so that the methodology can be applied to other industries.

About the Norwegian Electrotechnical Committee (NEK)

NEK is Norway's member of CENELEC and the International Electrotechnical Commission (IEC) – the standardization organizations for electrical and electronic communications at European and global levels. With around 1,000 Norwegian experts distributed across nearly a hundred technical committees, NEK contributes to the development of international standards and ensures that Norwegian interests are safeguarded in international standardization work.

This also applies to Norwegian businesses that use the NEK IEC 62443 series (NEK 820), which is a structured framework for Cybersecurity in industrial automation and control systems (IACS) and operational technology (OT).

OT & CPS Cybersecurity API

NEK has been at the forefront of IEC's digital efforts for the past 2 years, where a central part of the product development has been to make the standards smart, machine-readable, and accessible via APIs, among other things.

CodeIT is now positioning itself at the forefront, together with the Norwegian Electrical Engineering Committee, as one of the first companies in the world to use the new digital infrastructure from IEC. Initially, by integrating the APIs into its software platform to test and further develop how the standards can be connected directly to digital work processes.

-Standards play a key role in achieving interoperability, efficiency and security in systems. The challenge has traditionally been to facilitate and make content available to users. As we now make standards part of the digital infrastructure, we depend on good and forward-looking partners who are user-oriented and have a high degree of collaboration - especially in an early phase. CodeIT is one of the players who is now taking the lead and testing how this can be realized in practice together with us, says Håkon Nergård, advisor to NEK.

More information:

[NEK 820:2021](#)

[CodeIT eSecure™](#)

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