I&E INDUSTRIES & ENVIRONMENT

SAFER GREENER SMARTER

OT Cyber Safety Services

PROTECTING YOUR INDUSTRIAL OPERATIONS

In today's rapidly digitizing industrial landscape, safeguarding your operational technology (OT) systems against cyber threats is paramount. At SGS, we offer comprehensive OT cyber safety solutions designed to protect your critical infrastructure, ensuring safety, reliability, and resilience.

WHAT IS OT CYBER SAFETY?

Operational Technology (OT) encompasses hardware and software that detect or cause changes through direct monitoring and control of physical devices, processes, and events in industrial environments. OT cyber safety focuses on securing these systems from cyber threats that could lead to operational disruptions, safety hazards, or financial losses.

WHY IS OT CYBER SAFETY IMPORTANT?

As industries integrate advanced technologies, OT systems become more interconnected, increasing vulnerability to cyberattacks. A successful attack can result in:

- Operational Downtime: Halting production and leading to financial losses

- Safety Incidents: Compromising the safety of personnel and equipment

- Data Breaches: Exposing sensitive information

- Regulatory Non-Compliance: Leading to legal penalties and reputational damage

CHALLENGES IN OT CYBER SAFETY

Securing Operational Technology (OT) environments comes with distinct complexities:

- Legacy Systems: Aging equipment often lacks modern security features, increasing vulnerability

- Complex Networks: Diverse systems and protocols complicate integration and weaken security

- Real-Time Demands: Low-latency operations limit traditional IT security solutions and timely updates

- Proprietary Systems: Closed OEM protocols create compatibility issues and vendor lock-in risks

- Human Factors: With 62% of breaches linked to people, resistance to change and low awareness pose major threats

- Evolving Threats: Cyberattacks are becoming more precise, targeting OT-specific vulnerabilities

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THE RISING RISK OF OT CYBERATTACKS

Cyberattacks on critical infrastructure surged 87% in 2024, with OT systems in key sectors increasingly targeted:

+109% ENERGY	**+77%** HEALTHCARE
+75% MANUFACTURING	**+68%** OIL & GAS

Source: KPMG & SANS, 2025

TOP THREATS

- Connected Devices: Legacy and modern systems expand the attack surface

- Internal Accidents: Human error and system failures remain leading causes

- Supply Chain Risks: Compromised components or third-party vendors can introduce hidden vulnerabilities

With ransomware and targeted attacks rising, proactive OT cyber safety is more critical than ever.

OUR SERVICES

We offer tailored solutions to address these challenges:

- Consulting: Assess security maturity and develop OT cyber safety strategies aligned with operational goals, including design, implementation, and roadmap development

- Assessments: Identify vulnerabilities through in-depth evaluations, including asset inventories and network architecture reviews aligned with industry standards

- Training: Build internal expertise with specialized OT cyber safety training programs

- Network Detection & Segmentation: Detect threats and segment networks to reduce exposure and contain risks

- OT Cyber Safety as a Service: Ongoing monitoring, threat detection, and incident response tailored to your operational needs

Case studies: Our expertise in action

CASE STUDY 1: ENHANCING SECURITY FOR A MANUFACTURING PLANT

A leading manufacturer faced frequent operational disruptions due to cyber threats. SGS conducted a thorough assessment, identifying vulnerabilities in their network architecture. We implemented advanced network segmentation and provided targeted training for their staff. As a result, the plant experienced a 70% reduction in security incidents and improved operational continuity.

CASE STUDY 2: SECURING CRITICAL INFRASTRUCTURE IN THE ENERGY SECTOR

An energy provider sought to bolster the security of their OT systems against emerging threats. SGS delivered a comprehensive OT cyber safety program, including real-time monitoring and incident response services. This proactive approach led to early detection of potential threats, preventing possible service disruptions and ensuring compliance with industry regulations.

WHY CHOOSE SGS?

We combine deep industrial expertise with leading cybersecurity knowledge to deliver a holistic OT Assurance Framework, securing connected environments across the entire lifecycle of digital and automated assets. We offer:

- Industry-Specific Solutions: Tailored services addressing your unique operational risks

- Global Reach: A network of experts and state-of-the-art technologies to support your business goals

- Risk-Based Approach: Focusing on reducing business risks and ensuring long-term operational resilience

Partner with SGS to protect your operational technology and critical infrastructure from cyber threats. Contact us today to learn more about how our OT cyber safety services can enhance the safety, reliability, and resilience of your industrial operations.

Contact us

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When you need to be sure