GTC Transforming Emerging Economies

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Protecting Critical Infrastructure and Oil & Gas Assets in the Digital Age

COURSE OVERVIEW

This course explores the evolving risks and vulnerabilities faced by vital energy systems in an increasingly interconnected world. It provides participants with practical insights into cybersecurity threats, physical and digital convergence, regulatory compliance and resilience strategies. With a focus on oil and gas operations, pipelines, refineries, and supporting infrastructure, the program emphasizes proactive measures, incident response planning and technology driven solutions to safeguard assets against cyberattacks, sabotage, and emerging digital threats.

WHO SHOULD ATTEND?

This course is tailored for executives, security managers, IT and OT professionals, risk management specialists, regulators, and decision makers in the energy, oil and gas sectors. It is also valuable for government agencies, emergency responders and consultants responsible for protecting critical infrastructure and ensuring business continuity in complex threat environments.

COURSE OUTCOMES

Delegates will gain the skills and knowledge to:

- Understand the unique vulnerabilities and threats facing critical infrastructure and oil & gas assets in a digital environment.
- Apply cybersecurity frameworks and strategies relevant to protecting critical infrastructure.
- Conduct risk assessments and vulnerability analyses for digital and physical assets.
- Develop and implement comprehensive security and resilience plans to safeguard critical systems.
- Utilize advanced monitoring and incident response tools tailored to the oil & gas sector.
- Integrate cyber-physical security measures to address emerging digital threats effectively.

KEY COURSE HIGHLIGHTS

At the end of the course, you will understand;

- The digital threats and vulnerabilities specific to critical infrastructure and oil & gas sectors.
- Cybersecurity frameworks and best practices for protecting critical assets.
- Methods for conducting risk assessments and vulnerability management.
- Techniques for monitoring and responding to cyber incidents effectively.
- The integration of cyber-physical security measures in operational technology environments.
- Strategies for enhancing resilience and business continuity in critical infrastructure.
- The importance of regulatory compliance and international collaboration for asset protection.

All our courses are dual-certificate courses. At the end of the training, the delegates will receive two certificates.
1. A GTC end-of-course certificate
2. Continuing Professional Development (CPD) Certificate of completion with earned credits awarded