



Securing ICS: Becoming an Industrial Cyber Security Professional

Course code: ICS405

5 days	30 CPEs	Configured Laptop needed
-----------	------------	-----------------------------

The **Securing ICS: Becoming an Industrial Cyber Security Professional** course has been designed to provide those at IT/OT operator or equivalent level with an enhanced understanding of today's cyber security challenges facing their ICS environments. This knowledge is vital when managing the day to day running of all aspects of security risk for those environments.

This course will show students how to combine the disciplines of IT, Operational Technology (OT), Physical Security or Facilities Management to best support their organisations' cyber security and risk reduction strategies for their ICS environments across multiple industry sectors. In addition, it will provide students with the knowledge to begin the process of obtaining GICSP certification.

Pre-Requisites

There are no pre-requisites for this course and a configured laptop is required (configuration instructions are provided). However, all attendees need a good understanding of either basic IT or OT skills. In addition, a course handbook is provided that can be used for the exam (which is an open-book exam).

Who Should Attend

- Anyone working to secure an ICS environment
- Non-ICS staff who need to understand ICS terminology and how it differs from their current roles
- If you are a professional working in an ICS environment including:
 - Site/Asset Operators
 - Procurement/Contract staff
 - Supply chain staff
 - Site/Asset IT Support engineers
 - Site/Asset Physical Security/Facilities Manager staff
 - Integration/third party professionals



Session Descriptions

The course follows a whole lifecycle approach for designing, implementing, monitoring and decommissioning an ICS with security in mind and covers the following modules

- ICS Basics (for non-OT attendees)
- Cyber security essentials (for OT attendees)
- ICS Security governance and security risk
- ICS Architecture
- ICS Hardening
- Access Management
- Physical Security
- ICS Security Assessments
- ICS Security Monitoring
- Cyber Incident Management
- Cyber Table top exercises
- Help prepare a study plan and exam preparation (if the student wishes to continue with studies with a view to obtaining GICSP certification, please note the cost of the exam is not included in the cost of this course)

CyBOK Knowledge Areas

This course aligns to the following Knowledge Areas:

- Cyber-Physical Systems
- Distributed Systems Security
- Risk Management and Governance
- Security Operations and Incident Management

Hardware

Please note that attendees may be asked to download certain software for the purposes of training and should not bring a regular corporate build laptop for this course!

When installing software for this course, there is always a chance of damaging or interfering with something else on the system. Students should assume that all data could be lost.

What training follows on from this course?

This course can be used as the foundation for further study in preparation for the **GIAC Global Industrial Cyber Security Professional (GICSP)** certification.