

CYBERSEC 2022 臺灣資安大會

CHANGE

數位轉型 資安升級

SEP. 20-22 臺北南港展覽二館



BUREAU
VERITAS

您無須選擇 - 在必維可以同時取
兩證 ISA/IEC 62443 驗證經驗分
享 Kenny Lee

BUREAU VERITAS

CONSUMER PRODUCTS SERVICES

SUPPLY CHAIN TRUST SOLUTIONS

Testing • Inspections • Audits • Certification • Advisory • Actionable Insights



OUTLINE

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工控系統中的弱點

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ISA / IEC 62443 相關法規整理

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ISA/ IEC 62443 的兩種驗證方案

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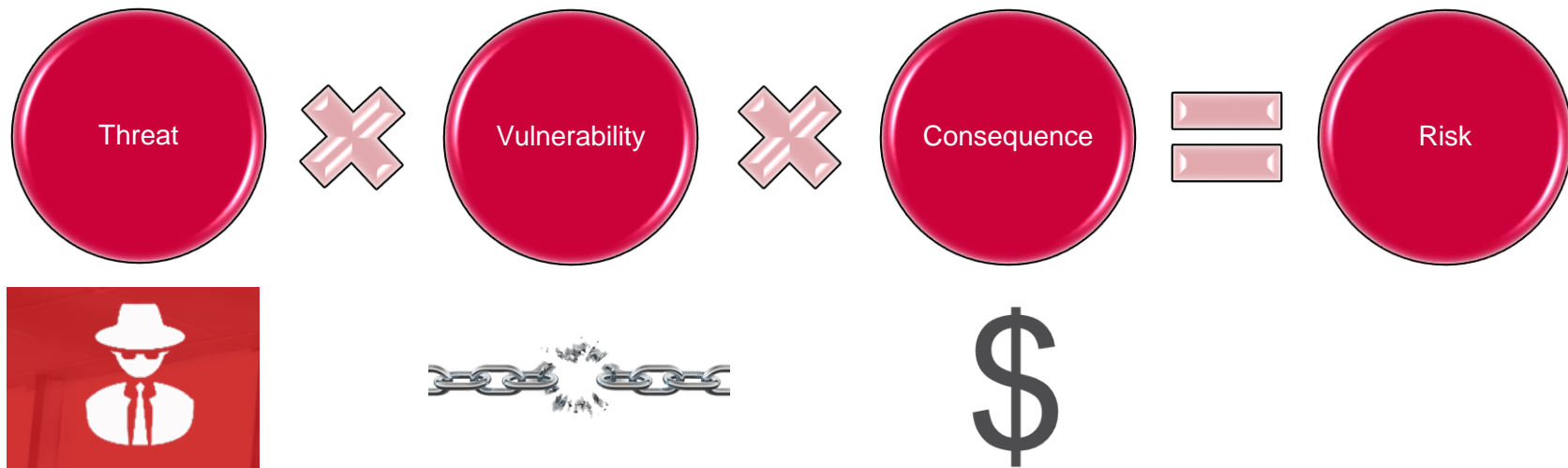
IECEE 62443 驗證

05

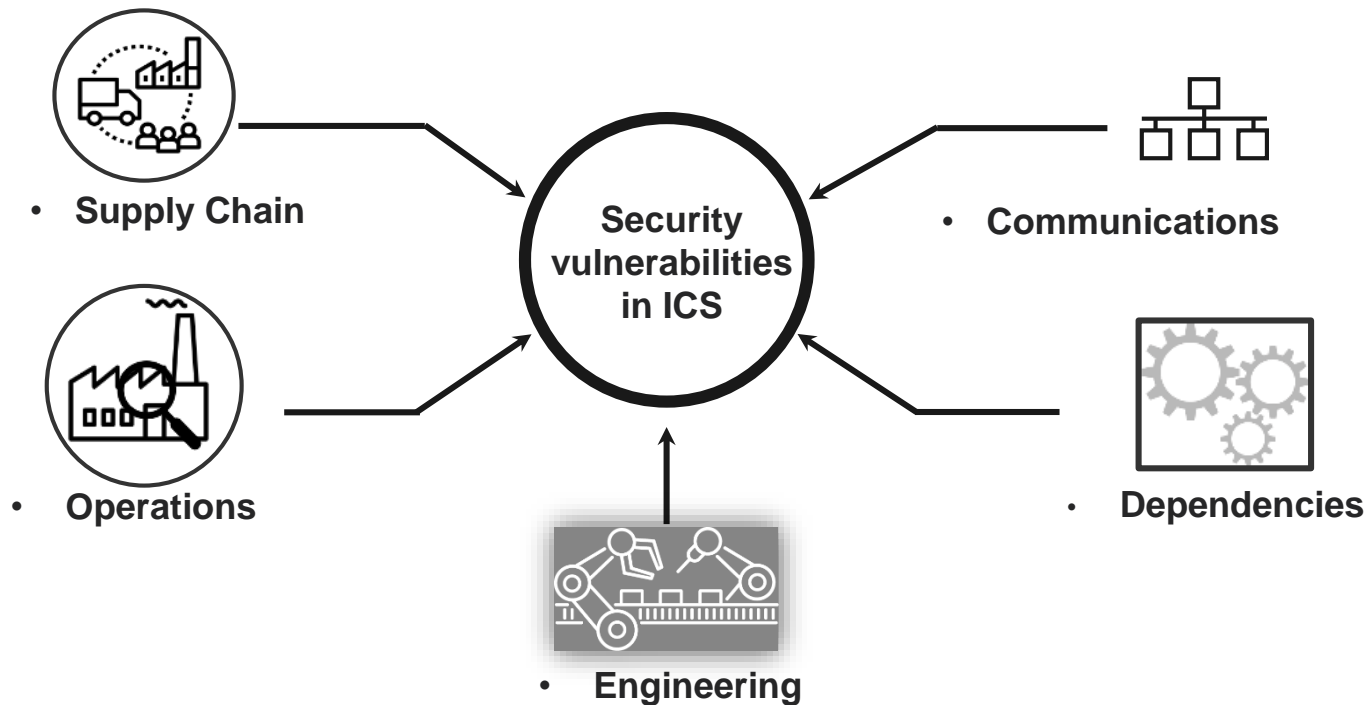
成功案例



WHEN WE TALK ABOUT CYBERSECURITY



CATEGORIES OF SECURITY VULNERABILITIES IN ICS



IMPORTANT CYBERSECURITY REGULATIONS

Cybersecurity Improvement Act
White House Executive Order
Cybersecurity Vulnerability Remediation Act
Senate Bill S7312

EU Cybersecurity Act
EU MDR (Medical Devices Regulation)

The Draft Personal Information Protection Law
Regulations on the Security Protection of Critical Infrastructure

Japan Telecom Law
Japan Road Vehicle Act

UK Security by Design Legislation
Automated and Electric Vehicles Act

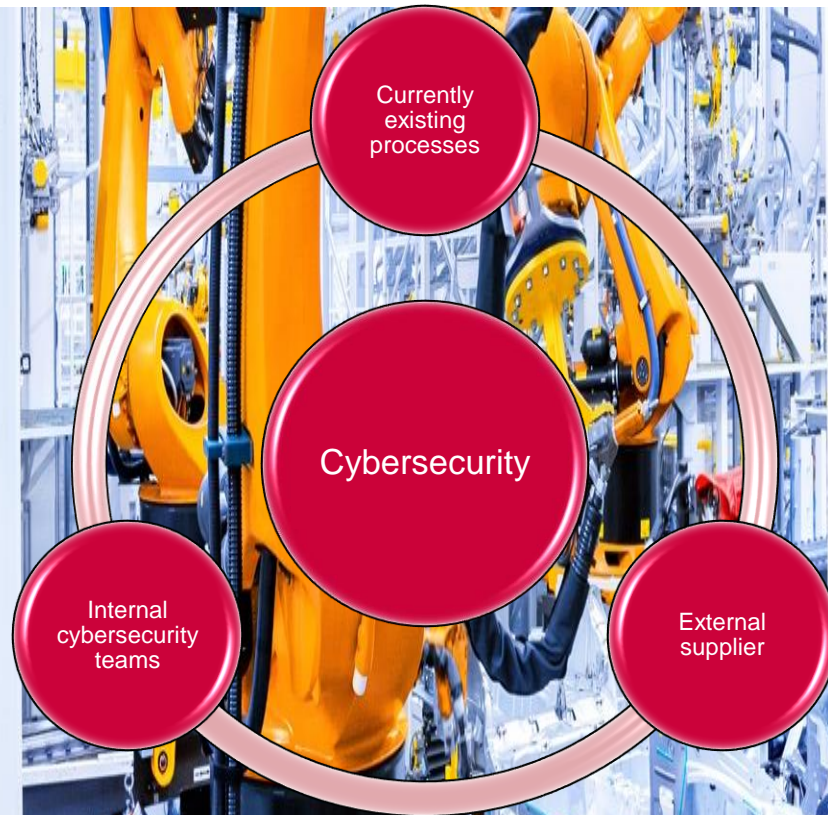
Cybersecurity Management Act

UN Regulation on Cybersecurity
UNECE Report on the sectoral initiative on Cybersecurity
UNECE Regulations on Software Updates

AU Privacy Act
The Security of Critical Infrastructure Act
The Telecommunications Act



EXPECTED IMPACTS

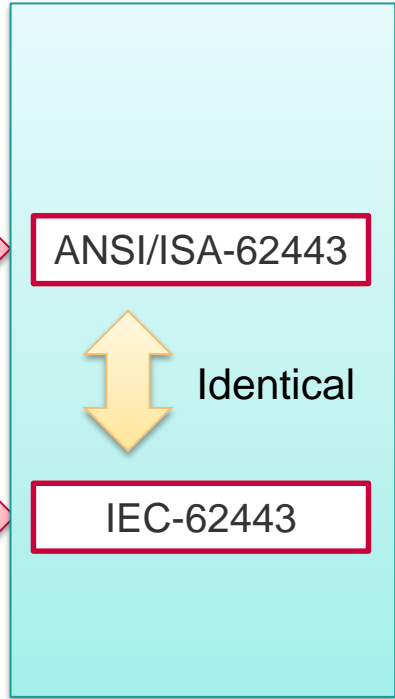


STANDARDS DEVELOPMENT ORGANIZATION COLLABORATION

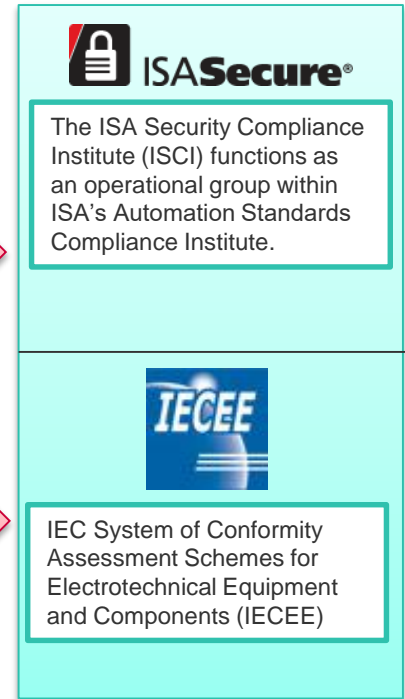
Organization





Standard



Certification Scheme



ISA / IEC 62443 CERTIFICATES

	IECEE Scheme 	ISASecure Scheme 
ISA/ IEC 62443-2-4	67	N/A
ISA/ IEC 62443-3-3/SSA	9	5
ISA/ IEC 62443-4-1/SDLA	38	26
ISA/ IEC 62443-4-2/CSA	19	51
ISA/ IEC 62443 IIoT	N/A	To be Launched in 2022 H2.

COMPLETE ACCREDITATION IN ISA/IEC 62443



CBTL Bureau Veritas Consumer Products Services (Hong Kong) Limited, Taoyuan Branch

Home Standards in Scope Spec. Test Labs

DISCLAIMER: National differences and Regulatory Requirements

The National differences and Group differences, National Deviations, Special National conditions (SNC) and Regulatory Requirements, are based solely on information provided to the Secretariat by the IECEE Member Bodies and/or NCBs and other sources. The IECEE is not responsible for, nor will it take any position related to, the accuracy or validity of the information provided. To verify the current status of this type of information, we recommend contacting the Member Body (MB) or National Certification Body (NCB) of the relevant country.

Group Differences are applicable for CENELEC member countries: Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Standards in Scope

Table search: 62443

Excel PDF Print

Category	Standard	Acceptance Date	Responsible National Certification Body
CYBR	IEC 62443-2-4:2015	2022-02-02	LABORATOIRE CENTRAL DES INDUSTRIES ELECTRIQUES - LCIE
CYBR	IEC 62443-2-4:2015/AMD1:2017	2022-02-02	LABORATOIRE CENTRAL DES INDUSTRIES ELECTRIQUES - LCIE
CYBR	IEC 62443-3-3:2013	2022-02-02	LABORATOIRE CENTRAL DES INDUSTRIES ELECTRIQUES - LCIE
CYBR	IEC 62443-4-1:2018	2021-03-22	LABORATOIRE CENTRAL DES INDUSTRIES ELECTRIQUES - LCIE
CYBR	IEC 62443-4-2:2019	2021-03-22	LABORATOIRE CENTRAL DES INDUSTRIES ELECTRIQUES - LCIE



BUREAU VERITAS 加入 ISA 計劃協助推行 ISASECURE® ISA/IEC 62443 全球網絡安全符合性計劃

1月. 12 2022

必維集團立德國際商品試驗有限公司 (Bureau Veritas Consumer Products Services, Technology Products Taiwan) 近期欣然宣布與國際自動化協會資訊安全符合性機構 (ISA Security Compliance Institute, 簡稱 ISCI) 已簽署協議未來將可基於 ISO/IEC 17065 及 ISO/IEC 17025 執行 ISASECURE® 一系列網絡安全評估、驗證及發證。ISASECURE Certification Scheme 為工業自動化與控制系統資訊安全驗證方案測試實驗室認證服務計畫，此一一系列的國際標準，評估並確保所有自動化控制產品和系統能抵禦網絡攻擊，消除已知資安漏洞並滿足 ISA/IEC 62443 標準中定義的安全能力 (security capabilities) 以全面提升網路安全水準。



American National Standards Institute



OPENCHAIN



International Society of Automation



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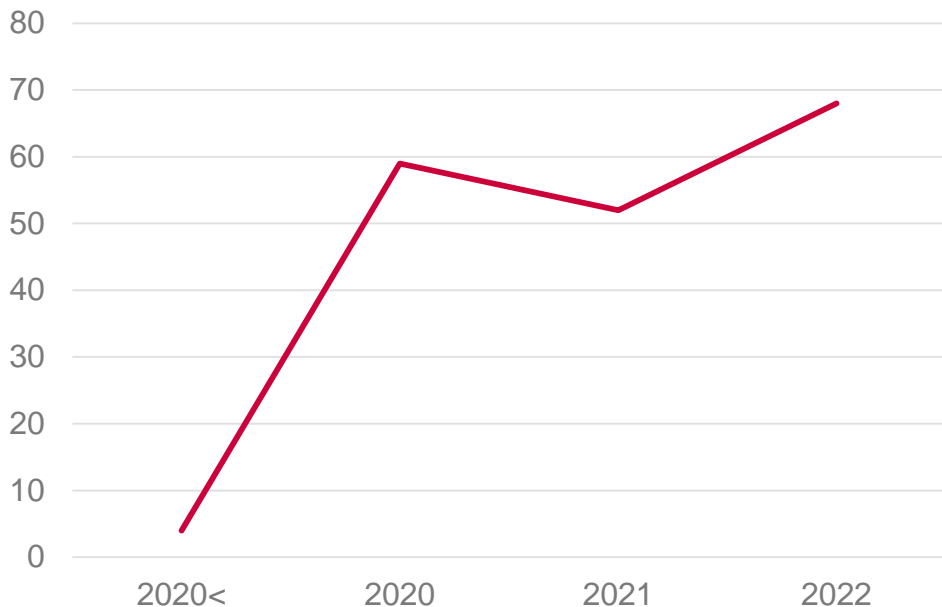
Shaping a World of Trust

Organization for Standardization

Third party Verification Cybersecurity Testing Laboratory

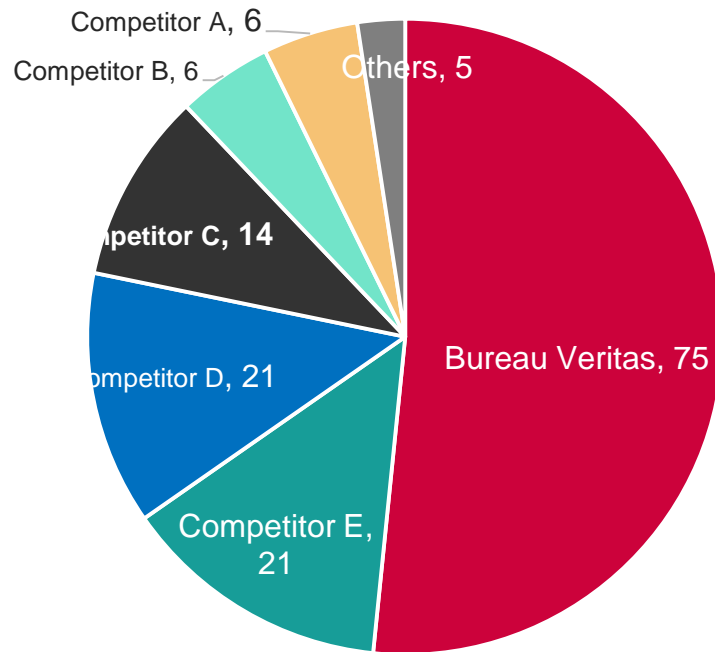
BUREAU VERITAS IS GLOBAL LEADER IN CYBERSECURITY

發證數量/年



— 發證數量

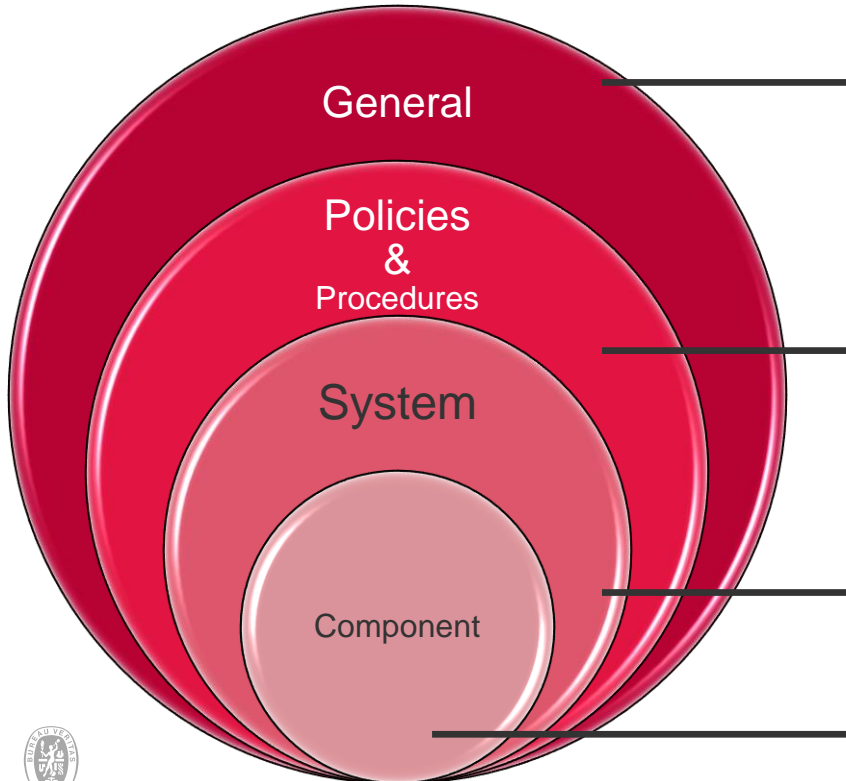
Total number of IECCE 62443 issued certificates



Status as of 2022 August 31st



ISA/IEC62443 OVERVIEW



1-1 Concept and models

1-2 Master glossary of terms and abbreviations

1-3 System security conformance

1-4 IACS security life-cycle and use-case

2-1 Security program requirements for IACS asset owners

2-2 IACS protection levels

2-3 Patch management in the IACS environment

2-4 Security program requirements for IACS service providers

2-5 Implementation guidance for IACS asset owners

3-1 Security technologies for IACS

3-2 Security risk assessment and system design

3-3 System security requirements and security levels

4-1 Secure product development lifecycle requirements

4-2 Technical security requirements for IACS components

Apply to Product Supplier



INDUSTRIAL CYBERSECURITY CAPABILITY ASSESSMENT

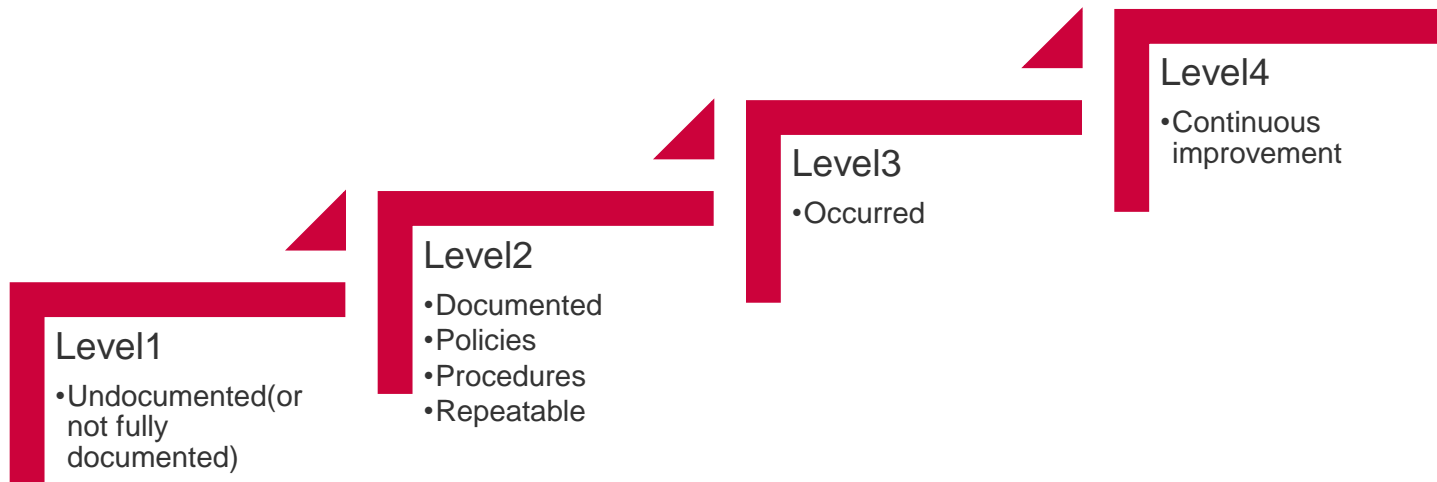
Capability assessment

- Technical
- Process

Application of capabilities assessment

- Product
- Solution

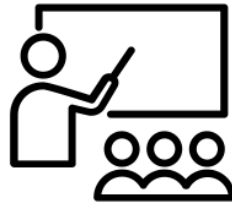
IEC 62443 MATURITY LEVEL



WHAT DOES EXPECT TO SEE IN MATURITY LEVEL 2?



All the procedures and sub-processes are written in documents.



People who may have to perform the process are well trained.

(Training evidence is available)

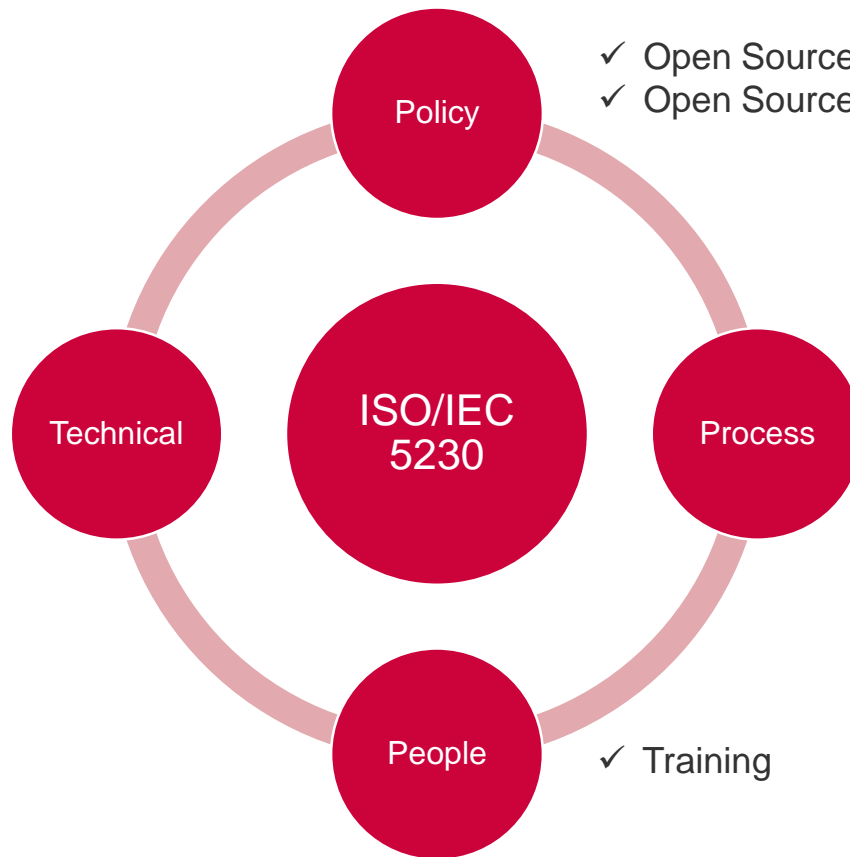


Guidelines, templates, or references of the documents should be available to help the personnel who will apply the process most of the time.



ISO/IEC 5230 OVERVIEW

- ✓ License Scanning Tools
- ✓ Software BOM Management Tools
- ✓ SPDX Tools



- ✓ Open Source Policy
- ✓ Open Source Contribution Policy

- ✓ Review Process
- ✓ Release Process
- ✓ Contribution Process

- ✓ Training

OPENCHAIN GOVERNING BOARD MEMBERS

arm



BLOCK

BMW GROUP
BMW Car IT



BOSCH

CISCO

COMCAST



ERICSSON

FUJITSU

Google

HITACHI
Inspire the Next

HONOR



HUAWEI

Meta



Microsoft

MOXA

NEC

oppo

Panasonic

Qualcomm
Qualcomm
Technologies, Inc.

SIEMENS

SONY

TOSHIBA

TOYOTA

Uber

成功案例

智慧製造



協助取得 ISO 27001
和 IEC 62443 認證

工業物聯網



協助取得 IEC 62443-
4-1 和 4-2 認證

車用資安



協助符合
R155 和 R156 法規

功能性安全



協助取得
ISO 26262 認證

醫療資安

PHILIPS



協助符合 FDA 和 MDR
網路安全要求

工業物聯網



協助取得 IEC 62443-
4-1 認證

工業物聯網



協助取得 IEC 62443-
4-1 認證

智慧製造



協助取得 IEC 62443-
2-4 和 3-3 認證

電動車充電樁



協助取得
EV Ready 充電樁認證

開源軟體合規



協助取得 ISO/IEC
5230 開源合規認證

BV CYBERSECURITY SERVICES

OUR SERVICES to continuously improve your cybersecurity level:



Risk Management

- Risk Assessment
- Threat Modeling

Audit Services

- Cybersecurity Maturity Review
- ISO 5230
- ISO 21434
- ISA/IEC 62443

Training

- Cyber Essentials
- Risk Management
- ISO 5230
- ISA/IEC 62443
- ISO 21434

Technical Testing

- Vulnerability Assessment/ Penetration Testing
- Test Lab services linked to ISA/IEC 62443 Products & Systems Testing
- Test Lab services linked to ISO 5230
- Test Lab services linked to EN 303 645
- Test Lab services linked to Japan requirement of Article 34-10
- Test Lab services linked to ioXt

Management System

- ISO 5230 (Org)
- IEC 62443 2-4 (Org & Process)
- IEC 62443 4-1 (Processes)

Product & Systems Security

- IEC 62443 4-2 (Product)
- IEC 62443 3-3 (System)
- EN 303 645 (IoT Product with VOC)
- ioXt (IoT Product)
- ISASecure CSA/SDLA
- ISO 15408

ISA/IEC 62443 CYBERSECURITY CERTIFICATE PROGRAMS

ISA官方授權



ISA99 Global Standards Committee
Developed ISA/IEC 62443

第三方驗證公司 Bureau Veritas 獲得 ISA (International Society of Automation) 官方授權，以中文授課的 ISA/IEC 62443 國際個人證照訓練課程。完成課程就可直接登記正式考證。



12.	ISA[12]	1.ISA/IEC 62443 Cybersecurity Fundamentals Specialist 2.ISA/IEC 62443 Cybersecurity Risk Assessment Specialist	1.ISA/IEC 62443 Cybersecurity Design Specialist 2.ISA/IEC 62443 Cybersecurity Maintenance Specialist 3.ISA/IEC 62443 Cybersecurity Expert
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SOURCE:行政院資通安全專業證照清單

ISA/IEC 62443 個人證照
是
行政院國家資通安全會報
認可之專業工業控制領域
專業資安證照





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