OT-Knight
An RBJCS brand

FUNCTIONAL SAFETY PORTFOLIO



OT/ICS CYBERSECURITY · FUNCTIONAL SAFETY

In OT and Critical Infrastructure, Cybersecurity becomes a Safety Function.

Services that keep your plant compliant, verified and resilient, from the first drawing to the last shift. People, process and technology, delivered by one accountable partner.

Concept & FEED	Detailed design	Build, FAT & SAT	Commissioning	Operations & maintenance	Change & renewal

OT Cybersecurity Management as a Service · all along the lifecycle

FOR OPERATORS AND MANUFACTURERS IN

Critical infrastructure · Oil & gas · Petrochemicals · Renewables · BESS · Power generation, transmission and distribution

information@ot-knight.com
Belgium · Europe · Middle East

THE CHALLENGE

Your plant should run with safety, security, reliability and productivity.

Regulation is tightening: NIS 2 across Europe, UK NIS and the Cyber Security and Resilience Bill, and the EU Cyber Resilience Act for the products you buy and build. Control systems are more connected than ever. Yet most cybersecurity programmes are designed by IT teams for IT systems, and rarely fit a control room, a turnaround schedule or a safety case.

OUR ANSWER

Cybersecurity and safety, joined up

We work at the interface between OT cybersecurity and functional safety (IEC 62443 with IEC 61511 and ISA TR84.00.09), treating cybersecurity as a safety discipline.

OT-native governance

We implement IEC 62443 and ISO/IEC 27001 together for critical infrastructure. One management system that operators can actually run, not an IT framework stretched over a control room.

Proven, certified competence

Knowledge, skills and behaviour backed by ISA, ISASecure, PECB, TÜV SÜD and Risknowlogy certifications, and a seat on the ISASecure ACSSA Technical Committee.

80+
years of combined OT experience in the field

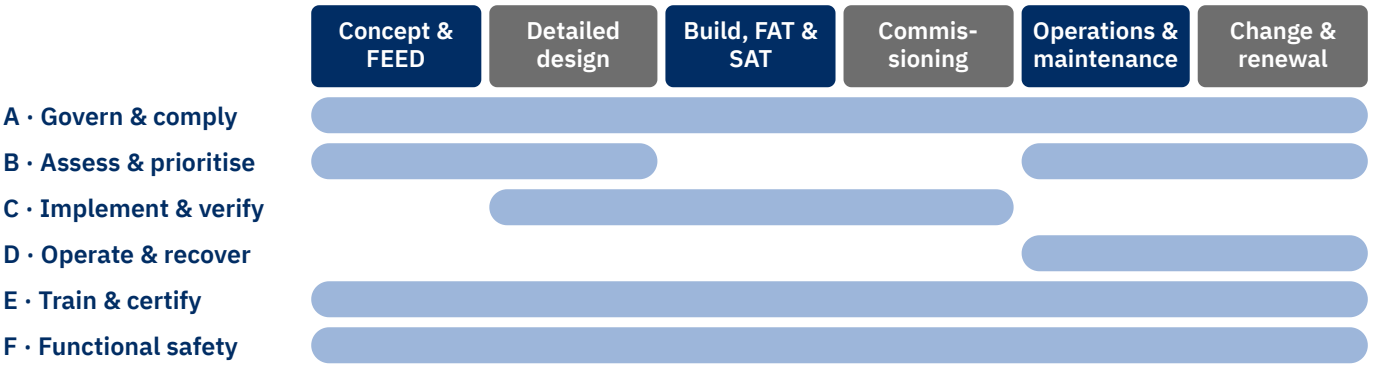
6
lifecycle stages covered, from FEED to renewal

6
service families, one accountable partner

ML3
ACSSA certification, guided step by step

With you all along the plant lifecycle

Where each service family engages



People

Awareness, competence and clear roles, from operators to the board.

Process

Governance, risk management and procedures that work in a plant.

Technology

Secure architecture, controls and verification in live conditions.

F Functional safety

Aligned with the IEC 61511 safety lifecycle: safe by design, and safe in operation.

F1 Functional Safety Management and lifecycle planning

We build and run the management system that keeps your SIS safe for its whole life, on an operating site or inside a capital project: ready for assessment, with a clean handover into operation.

- Lifecycle & validation planning
- Verification & FSA planning
- Owner, contractor & vendor roles
- Management of change
- Competence management
- Document control

F2 Functional safety assessments

Independent FSAs at every lifecycle stage, from hazard and risk analysis and the SRS to commissioning, operation and modification, plus audits that check your procedures are followed.

DELIVERABLES · FSA reports, functional safety audits, findings register

F3 Safety requirements specification

We write or review the SRS for each safety instrumented function: safe state, trip points, response times, SIL target, bypass and reset rules, proof test requirements.

DELIVERABLES · SRS, SIF list, review comments

F4 SIL verification

PFD, hardware fault tolerance, architectural constraints and systematic capability checked against each SIL target: an independent calculation you can defend in an assessment.

DELIVERABLES · SIL verification report, recommendations

F5 Operation & maintenance support

Proof test procedures and interval optimisation, demand and failure tracking, bypass management, and review of SIS modifications once the SIS is running.

DELIVERABLES · proof test procedures, SIS performance reviews, MoC reviews

F6 Certify your FSMS

We guide you in choosing the certification body and through the whole process. We have led an FSMS to exida certification, so we know the route first-hand.

+ Where safety meets security

A SIS needs its own security risk assessment under IEC 61511. We carry it out alongside our functional safety work.

F7 Awareness, training & coaching from the control room to the board

Awareness sessions

Short sessions for operators, maintenance, contractors and managers: what a SIS does and why bypasses matter.

Tailored training

The IEC 61511 lifecycle, SIL determination, the SRS, SIL verification and proof testing, built around your plant and procedures.

Coaching on real projects

We work alongside your team on your own projects and help them build the competence IEC 61511 requires.

Also: **Safe & Secure by Design**, functional safety and OT cybersecurity in one course (3 days or a one-day workshop). Onsite, in EN, FR or ES.

F Functional safety training

IEC 61511 competence from the control room to the project office, tailored to your plant and procedures.

T9 Functional Safety Awareness: Why the SIS Matters

HALF DAY TO 1 DAY

For operators, maintenance teams, contractors and managers

- What a safety instrumented system does, and how it differs from the control system
- Why bypasses, overrides and unreviewed changes put the protection at risk
- The IEC 61511 safety lifecycle in plain words, and who owns each step
- What every role must do, and must never do, around a SIF

T10 IEC 61511 in Practice: from Hazard Analysis to the SRS

3 DAYS

For engineers, process safety specialists and project teams

- The safety lifecycle and how its phases connect: hazard and risk analysis, allocation, SRS, design, validation, operation
- Writing the SRS: safe state, trip points, response times, bypass and reset rules, proof test requirements
- Determining the target SIL with HAZOP and LOPA, and calibrating against the corporate risk matrix
- Workshop: from a hazard scenario to a complete SRS for one SIF

T11 SIL Verification: Proving the Design Meets Its Target

2 DAYS

For SIS design engineers, EPCs and vendors

- PFD calculation for typical architectures, and the data and assumptions behind it
- Setting the proof test interval and documenting what the result depends on
- Hardware fault tolerance, architectural constraints and systematic capability
- Workshop: verifying one SIF and defending the result in an assessment

T12 Operating the SIS: Proof Testing, Bypass and Management of Change

2 DAYS

For operations, maintenance and engineering teams

- Writing and executing proof test procedures, and optimising test intervals
- Tracking demands and failures, and using the data to review the design assumptions
- Bypass management and the operational rules in the SRS
- Reviewing SIS modifications under management of change

T13 Functional Safety Management: Running the FSM System

2 DAYS

For managers, functional safety leads and project owners

- The functional safety plan, the lifecycle and validation plans, and roles across owner, contractor and vendors
- Functional safety assessments and audits: what assessors look for, at each stage
- Competence management, verification activities and document control
- Preparing your FSM system for assessment, and for FSMS certification

Coaching on real projects we work alongside your team on your own projects

We help your team build the competence IEC 61511 requires, on the work in front of them. Also available: T1, functional safety and OT cybersecurity in one course (3 days or a one-day workshop).

HOW WE WORK WITH YOU

A clear path from obligation to secure operation

1 **Discover**
Your plant, your obligations and your priorities

2 **Assess**
Risks, gaps and maturity, checked on site

3 **Plan**
A prioritised roadmap that fits your turnarounds

4 **Implement**
Specify, manage and close the gaps

5 **Verify & sustain**
Test, audit, train and keep improving

SECTORS WE KNOW

- Critical infrastructure
- Oil & gas
- Petrochemicals
- Renewables
- BESS
- Power generation
- Transmission (TSO)
- Distribution (DSO/DNO)

WHERE WE WORK

Projects across **Europe and the Middle East**, including multi-country NIS 2 programmes and UK NIS. Based in Brussels, Belgium.

Working languages: English, French, Spanish.

CERTIFIED COMPETENCE

Member of the ISASecure ACSSA Technical Committee

ISA/IEC 62443 Cybersecurity Expert (ISA) · ISASecure ACSSA for Evaluators Specialist · ISA Qualified Instructor · PECB ISO/IEC 27001 Senior Lead Implementer · PECB ISO/IEC 27001 Senior Lead Auditor · PECB NIS 2 Directive Senior Lead Implementer · PECB ISO 31000 Senior Lead Risk Manager · TÜV SÜD · RISKNOWLOGY Certified Competency

Let's secure your plant together.

Tell us about your plant, your obligations and your next project. We will come back with a clear scope and a practical first step.

information@ot-knight.com

Brussels, Belgium · Europe and the Middle East

In OT and Critical Infrastructure, Cybersecurity becomes a Safety Function.