Governing Emerging Technologies through ISO Standards

Emerging technologies—including artificial intelligence, cloud computing, automation and interconnected data platforms—are reshaping how Caribbean organizations operate and compete. Yet each new capability also introduces dependencies, operational complexity and governance challenges. The strategic question is not simply how quickly organizations can adopt technology, but whether their governance, people, processes and resilience can mature at the same pace.

This presentation explores how internationally recognized ISO management-system standards can help bridge that gap. Rather than approaching standards solely as tools for certification, auditing or compliance, the session positions them as practical foundations for trusted, secure and sustainable digital capability. It examines the complementary roles of ISO/IEC 27001 and the wider ISO/IEC 27000 family in information security, alongside ISO/IEC 42001 for AI management and governance.

Using AI agents as an example of rapidly evolving technological risk, the presentation connects risk-based oversight and organizational readiness to a wider economic ambition: enabling Curaçao and the Caribbean to compete through trust, resilience, service quality and internationally recognized good practice—not necessarily through scale.

Learning Objectives

By the end of the session, participants will be able to:

- Identify major emerging ICT capability families and explain how their interconnections create new organizational and third-party dependencies.
- Explain why technology maturity must be accompanied by corresponding maturity in governance, leadership, skills, processes and accountability.
- Describe how ISO/IEC 27001, the ISO/IEC 27000 family and ISO/IEC 42001 provide complementary management-system foundations for secure and responsible technology adoption.
- Recognize how AI and increasingly autonomous AI agents introduce risks that require proportionate, lifecycle-based governance and oversight.
- Assess why resilience, supplier governance and international standards are particularly relevant to small, interconnected Caribbean economies.
- Explain how standards-based organizational capability can strengthen trust, international credibility and long-term regional technology competitiveness.



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Jordan T. Emanuelson serves as Membership Director and Board Member of the ISACA Curaçao Chapter. He works as an Information Technology Examiner and Supervision Specialist at the Central Bank of Curaçao and Sint Maarten (CBCS), focusing on information technology, cybersecurity and operational risk. His professional interests include IT governance, information security, emerging technology risk and the practical application of international standards.

Through his work in technology risk and professional development, Jordan advocates for stronger governance capabilities and internationally recognized practices that enable Caribbean organizations to adopt innovation responsibly and compete with confidence.