

## IT Security Auditor

IT Security protects your information:

- Confidentiality** to ensure only authorized people can read or update it,
- Integrity** to ensure it is not corrupted,
- Availability** to ensure you have it when required,
- Accountability** of changes to ensure non-repudiation of transactions.

There are ten domains in IT Security, ranging from personnel and physical security to cryptography. Each domain has its own set of controls.

There are three frameworks to measure the controls:

- COBIT 5** which focuses on control objectives,
- ITIL** which focuses on processes, and
- ISO 270001** which lists prescriptive controls.

There are also industry standards to set controls:

- Centre for Internet Security* guidelines,
- Canadian government *Communications Security Establishment's* IT Security Guidelines.

**IT Security Audits** review existing business processes and controls, including automated controls, and report:

- Review** design,
- Assess** effectiveness and efficiency, and
- Recommend** best practices.

**Internal Controls over Financial Reporting (ICFR)** requires businesses to certify annually that the controls have been designed properly and are functioning correctly. The penalties for failure to comply include loss of reputation, and sending the CFO to jail. *IT General Controls (ITGC)* are a required component of ICFR compliance. ITGC reports are prepared by IT Security Auditors. The Audit Committee on your Board of Directors may ask for other IT Security audits.

## Phil Irving

- Over 10 years' experience as IT Security Auditor
- Certified as Information Systems Security Professional (**CISSP**), awarded in 2005 by *International Information Systems Security Certification Consortium (ISC)*<sup>2</sup>
- Certified as Information Systems Auditor (**CISA**), awarded in 2012 by *Information Systems Audit and Control Association (ISACA)*
- COBIT 5 Foundations
- CyberSecurity neXus (CSX) Fundamentals
  
- Graduated B.A. Computer Science, Queen's University, Kingston in 1985.
  
- Secret (Level II) clearance, expires 2026.
  
- Diverse background includes:
  - Audit Project Leader at Shared Services Canada 2016–2018
  - Senior Technology Auditor at NAV Canada 2007–2015
  - Senior IT Security Analyst at HP Canada 2003–2005
  - IT Security Analyst and Entrust PKI Support at Nortel Networks 1997–2002
  - IT Security Consultant at CGI 1993–1996
  - Teacher (part-time) and System Administrator (full time) at Algonquin College 1987–1989
  - Project Manager at Nortel Networks, PetroCanada, and Bell Canada *variously* 1985 to 2002

Available for either a permanent position, or as a contractor through incorporated company.

Phil Irving,  
**piSecAudit** (964317 Ontario Inc)  
[www.piSecAudit.ca](http://www.piSecAudit.ca)  
613-294-0379  
[phil@piSecAudit.ca](mailto:phil@piSecAudit.ca)

Full C.V. is available at [www.piSecAudit.ca](http://www.piSecAudit.ca). References are available upon request.  
<https://www.linkedin.com/in/phil-irving-15472487/>