in association with **DREW & NAPIER**

Cybersecurity Primer

Course Objectives

Organisations face cyber threats of established and increasing sophistication which can have a significant impact on their business operations, customer relations and revenue. In this context, various laws may require organisation to take measures to protect their computer systems and the information stored in such systems; this applies for internal systems as well as external systems, for in-house built or for externally developed ones. To get a good grasp of these threats, common vulnerabilities, as well as typical mistakes made by development teams (inhouse and external), which are exploited in a typical cyberattack, this course provides a comprehensive overview of typical cybersecurity issues, key local and international cybersecurity and data protection guidelines and best practices, as well as international standards, frameworks, and approaches to cybersecurity. These topics are critical for managing supply chains, vendors, and external service providers, as they need to be addressed in contractual clauses and monitored as part of the oversight requirement. Failing to adequately manage vendors and service providers is among the most frequent findings for data breach decisions by regulators. This course is geared towards managers and compliance officers, who are responsible for data protection and procuring, controlling, and monitoring IT systems and development, but is also relevant to engineers with no or little security training.

This course complements our <u>Cybercrime and Cybersecurity Law, Regulation, and</u> <u>Compliance</u> course on the legal and compliance requirements relating to cybersecurity, and our <u>Quantum Computing Concepts for Cybersecurity</u> course.

Who should attend?

- Privacy Engineers, Data Analysts, and Data Architects
- Data Protection Officers (DPOs), Compliance Professionals, Corporate / In-house Counsels, Project Managers, Technical Staff, and Developers
- Executives, Managers, and Staff involved in the management, collection, use or other processing of personal data

Course Details

Course Code:	CS101
Title:	Cybersecurity Primer
Duration:	1/2 day (approximately 3.5 contact hours)
Mode of Training: In-person	
Venue:	Drew & Napier LLC
	10 Collyer Quay, 10th Floor, Ocean Financial Centre

Singapore 049315

Course Fee: S\$300.00 (excluding GST)







To view available dates and register for this course, please click <u>here</u>. You may view all available courses and our course schedule(s) on our Academy webpage (<u>https://www.drewnapier.com/Academy</u>).

Course Outline

Common Cybersecurity Issues

- o Security incidents versus data breach incidents
- o Implementation causes / failures
- o Cloud based and off-the shelf services
- o Human factors and Testing
- Local Guidelines on Cybersecurity Best Practices
 - Overview on PDPC's technical guides
 - Overview on technical aspects of other regulators in Singapore
- International Standards and Frameworks relating to Cybersecurity
 - International Organization for Standardization / International Electrotechnical Commission (ISO / IEC) 27000 family of standards
 - Open Worldwide Application Security Project (OWASP), Common Criteria (CC), National Institute of Standards and Technology (NIST) Frameworks

Course Facilitator



Albert Pichlmaier is Senior Learning Technology Designer with Drew Academy and concurrently Senior Cybersecurity & Privacy Engineer with Drew & Napier's Data Protection, Privacy & Cybersecurity practice. He holds a degree in Computer Science from a German tertiary institution. He is a Certified Information Systems Security Professional (CISSP), a Certified Data Privacy Solutions Engineer (CDPSE), a holder of the Singapore WSQ Advanced Certificate in Learning and Performance (ACLP), and a certified Blockchain Developer. Albert is credited as an inventor of two patents granted in Germany and other countries. His technical expertise covers a wide-ranging area of matters involving Cybersecurity, Privacy Engineering, Cryptography, Quantum Computing, Artificial Intelligence / Machine Learning, Blockchain Development, Data

Analytics, Big Data, and Data Visualisation. For the courses and webinars under the Drew Academy, he draws from this pool of knowledge and experience to explain technical content to non-technical audiences, develop proof-of-concept and learning tools, and engage with experts on finer details.

Albert was formerly an Executive Manager with the Personal Data Protection Commission (PDPC), where he was involved in technology assessments for data breach investigations, research into trending / disruptive technologies and advising on technical aspects of various PDPC guidelines and publications (amongst other matters). Prior to his role with the PDPC, Albert worked in technology-related organisations in the private and public sector in Germany, Spain, and Singapore. He was also a technopreneur, having set up a company to provide testing tools for embedded systems and smartcard applications.

Albert has hands-on and policy related experience in security. For example, he was the Technical Manager for the Common Criteria Certification Body within Infocomm Development Authority of Singapore (IDA). He is currently assisting the Singapore Accreditation Council (SAC) as Technical Assessor / Expert for assessments of organisations according to ISO / IEC 17025 and ISO / IEC 17065.