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## Course Outline

- **Common Cybersecurity Issues**
  - Security incidents versus data breach incidents
  - Implementation causes / failures
  - Cloud based and off-the shelf services
  - 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.