Antwerp
Management
School

# LEADING DIGITAL TRANSFORMATION

## Master Class Cyber Security Management (Edition 2021)

***Risk, Security and Privacy in the Digital Enterprise***

### Context of the program

In today's fast evolving society, companies and organizations have become highly dependent on information-processing systems and, by extension, on waterproof security systems. As a result, the role of a security officer (CISO, DPO, …) has changed significantly over the past few years. In order to meet present-day stringent information security requirements, the security officer must be well aware of the organization's mission and vision, have insight into its security IT architecture and be capable of encouraging the conscious use of digital information within the organization.

The **Master Class Cyber Security Management** offers up-to-date knowledge for information security professionals in order to excel in the governance and management of their IT security responsibilities. The program has a managerial focus.

- Learn how to develop and implement information security & risk management strategies and policies, tailored to the specific needs of your organization;
- Become the information security intermediary between board, management, scrumteams, business development, IT and operational units within your organization;
- The program is compliant with the EU e-Competence framework (e-CF) and the EU e-Leadership program.

### Learning objectives

After attending this program, participants have further developed their professional skills:

- Management: develop, implement and manage information security & risk management strategies and policies tailored to the specific needs of the organization;
- Measure: develop information security and risk management processes, integrate them in related corporate processes and associated technology & behavior in order to guarantee good corporate governance;
- Awareness: raise organization-wide awareness in terms of information vulnerabilities and decide on action oriented information security measures and metrics;
- Coordination: facilitate constructive collaboration between business requirements and technical information security experts in order to harmonize policies, operational activities and IT security aspects;
- Leadership: create a risk-aware culture with associated ownership for business as well as IT. Develop, explain and execute the necessary improvements on people behavior, process and technology and adjust those taking into account all legal, business, society and human related aspects.

## Curriculum

- Part 1: Understanding the strategic context
  This module discusses the broader organizational context of information security and provides a pragmatic approach to align the information security strategy to the organization's strategic goals. Governance, legal and compliancy related aspects will be covered as well as the information security performance measures.
    - Information Security and Business & IT alignment, Critical Success Factors;
    - Enterprise Risk Management – Risk Standards (ISO/ISF);
    - Corporate Social Responsibility (CSR);
    - Impact analysis;
    - Information security performance measurement – The Security Balanced Scorecard.
- Part 2: Translating the information security strategy into action
  Learn how to build and to execute a short, mid and long term information security program. Participants will learn how to develop a professional information security management system for their organization. The curriculum includes identifying all the relevant information risks, achieving management approval to launch the security initiative and monitoring the results through a project based approach.
    - How to determine your organization's biggest threats and risk;
    - How to develop and promote Security Awareness within your organization;
    - Information Security Governance: organization, management, responsibilities, reporting;
    - Program Development and Management;
    - Incident Management and Response.
- Part 3: Understanding and maintaining operational aspects of information security management
  This module addresses all operational matters related to information security management, including questions such as how to keep information security on the executive agenda and how to measure, to control and to report information security within the predefined requirements, policies and agreements. In addition, this module explores new security management challenges caused by new technological developments (e.g. automation, CI/CD, blockchain) and legal regulations (e.g. GDPR).
    - Cyber Security and Infrastructure;
    - IT-security frameworks;
    - NIST IT-security;
    - Technical Risk Assessment;
    - IT-continuity management;
    - Disaster recovery;
    - How to organize yourself during a breach: Crisis Game.

## Target audience

This master class is designed for business and IT professionals who are operating at management level or having management level aspirations.

Positions held by participants include those of IT consultant, IT auditor, business analyst, service delivery manager, IT manager, (chief) information security officer (CISO), data protection officer (DPO), security manager, governance, risk and compliance (GRC) officer, etc.

Participants are active in various types of organizations such as consulting and auditing firms, IT service providers, manufacturing, healthcare and governmental organizations.

## Planning (Edition 2021)

- 04-05 February 2021
- 04-05 March 2021
- 01-02 April 2021
- Thursdays: 14h00-22h00, incl. dinner. Fridays: 09h00-17h00.

## Faculty & Lecturers

- Prof. dr. Steven De Haes, Academic Director
- Prof. dr. Yuri Bobbert, Module Lead
- Prof. dr. Piet Ribbers,
- Ad Krikke, Corporate ICT Security Officer
- Marc Vael, CISO

## Tuition fee (as of 01/01/2020)

- 5.900 €, VAT exempt
- Fee includes text books, reading material, refreshments, dinners on Thursdays, lunches on Fridays (excl. travel and hotel)
- Please check our website for financial benefits (e.g. KMO Portefeuille)

## Diploma

Based on active participation in this course and after successful completion of the module assignment you will receive a Master Class Certificate delivered by Antwerp Management School and EuroCIO.

In addition you will receive an exemption for this module if you register for one of the Antwerp Management School Executive Master tracks in ***Leading Digital Transformation***.

## Get a master degree!

The **Master Class Cyber Security Management** is an integral part of our Executive Master tracks in ***Leading Digital Transformation***. Four part-time master programs are offering you the flexibility to combine your job and career perspectives with the commitment and aspirations of obtaining a master degree.

- Executive Master in Enterprise IT Architecture (MEITA)
- Executive Master in IT Management (MITM)
- Executive Master in IT Governance and Assurance (MITGA)
- Executive Master in IT Risk & Cyber Security Management (MRSM)

Thanks to the modular construction of these master tracks, we are offering maximum flexibility with multiple starting points spread over two academic years. Start with a module and apply for the full master track later or combine only those modules that are the best fit to your personal needs.

***Successful completion of the part-time master program will result in a Master of Science (MSc) diploma with double accreditation: the international AACSB accreditation as well as the Benelux NVAO accreditation.***

| | **60 ECTS** | **MEITA** | **MITM** | **MITGA** | **MRSM** |
|---|---|---|---|---|---|
| **Module 1** | 12 ECTS | Digital Transformation: Strategy & Leadership | | ➢ Leading Digital Transformation<br>➢ Mastering Digital Disruption | |
| **Module 2** | 6 ECTS | Agile Enterprise Architecture & Engineering (Part1) | | Corporate Governance, Risk & Compliance (GRC) | |
| **Module 3** | 6/9 ECTS | Agile Enterprise Arch. & Eng. (Part2) | **Cyber Security Management** | | |
| **Module 4** | 12/9/9 ECTS | Agile Enterprise Arch. & Eng. (Part3) | Governance & Management of Digital Assets | | Cyber Security Architecture & Technologies |
| **Module 5** | 6 ECTS | Data Science for Business | | | |
| **Thesis** | 18 ECTS | Master Project | | | |

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