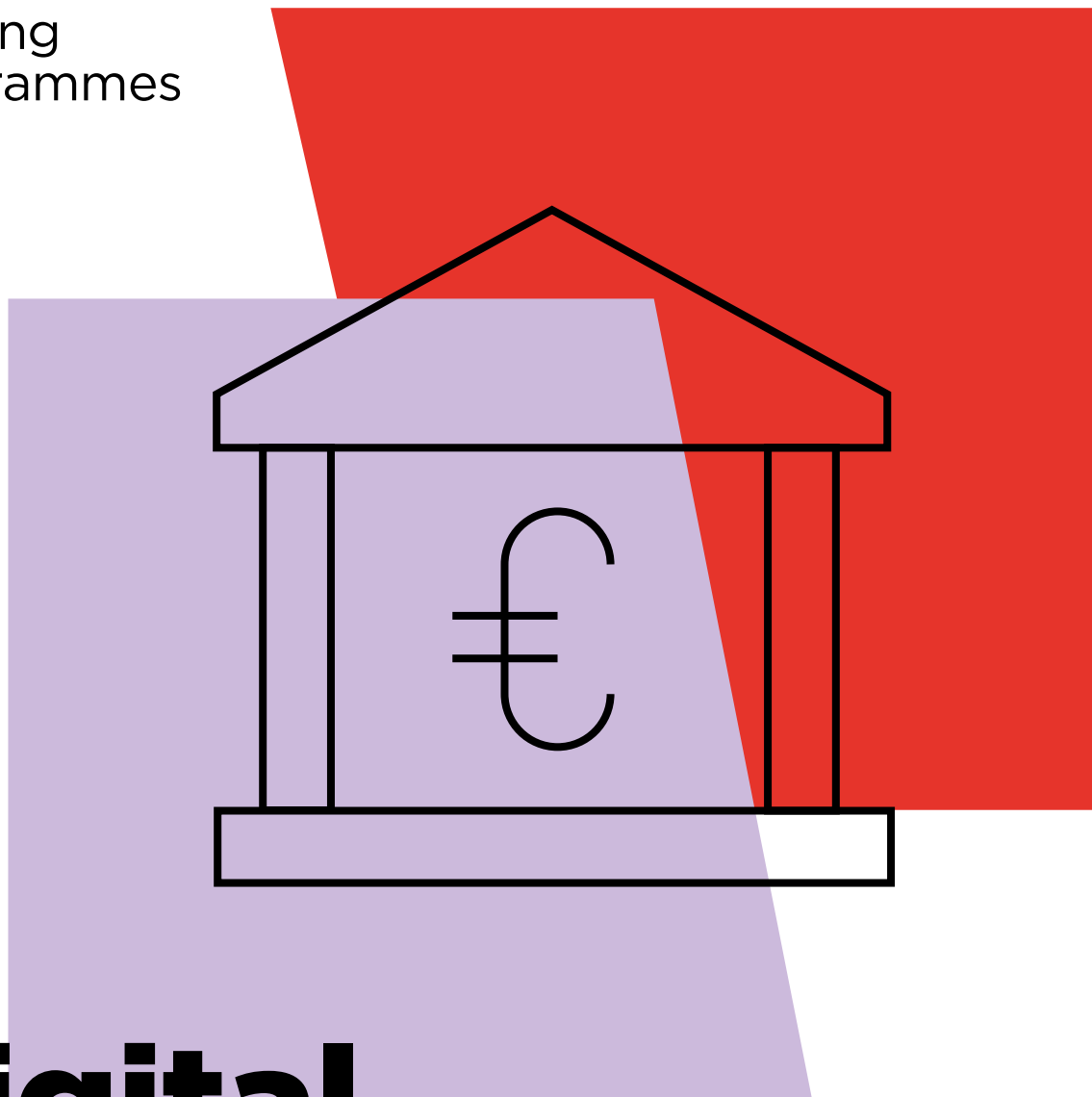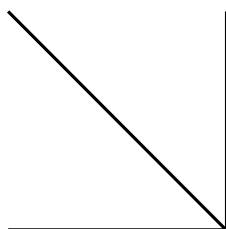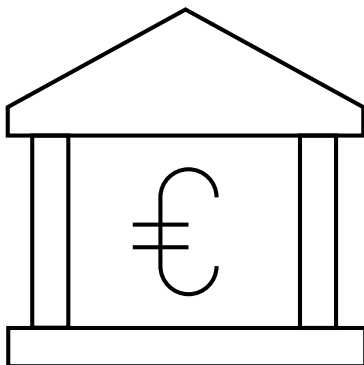# Digital
in Finance

ABBL

HOUSE OF
TRAINING

Technology has a growing impact on many industries including banking and finance.

New disruptive technologies and digitalisation already impact and transform all kinds of customer and supplier relationships. By creating, disseminating and using information helping to identify and generate added value, they are now changing corporate structures with regard to operations, business models and performance management.

Finance is digital and the Financial Services Industry acknowledges the need for a thorough digital transformation as the only means to thrive in the future. Technological capabilities are essential for a future in an industry that is digital in its very essence.

Mastering the creation and development of innovative financial products and services through digital technology is key, ensuring that financial systems become more reliable and transparent and user interactions smoother.

The House of Training together with ABBL's Innovation, Digital Banking & Payments Department released an updated edition of the Digital in Finance programme. It is composed of several training modules, allowing participants to gain knowledge or further develop their expertise in these eminently important subjects to ultimately achieve digital transformation in their respective companies.

Ananda KAUTZ
Head of Innovation, Digital Banking & Payments - Member of the Management Board, ABBL

To succeed in this digital transformation, it is not enough to have the most innovative technologies and the most efficient infrastructures. Financial institutions need men and women who master these new technologies and put their multidisciplinary skills at the service of digital projects and the local economy.

Awakening and training young people in digital technologies and services is essential to ensure that companies have the necessary resources and cutting-edge know-how. But it is as essential for experienced professionals to upskill in this area in order to acquire the right skills for the future.

Fabian LONGO
Head of Banking & Finance

The digitisation of the financial sector poses new challenges:

From a security point of view, IT risk, or Cyber risk, is a major issue linked to the ongoing digital transformation of the financial system.

From an efficiency perspective, digital innovations in the financial sector offer opportunities, but also bring risks.

Finally, innovation in the financial sector, in particular the appearance of BigTech and the development of new settlement assets in the form of crypto-assets, raises new issues in terms of sovereignty and monetary stability.

Our training offer on digital finance will give you an opportunity to better understand these new challenges.

Digital Transformation

Introduction to Digital Finance

New disruptive technologies and digitalisation already impact and transform all kinds of customer and supplier relationships. By creating, disseminating and using information helping to identify and generate added value, they are now changing corporate structures in regards to operations, business models and performance management.

Finance is digital and the Financial Services Industry acknowledges the need for a thorough digital transformation as the only means to thrive in the future. Technological capabilities are essential for a future in an industry that is digital in its very essence, the times of managing physical money and bonds being long gone.

Mastering the development and realisation of innovative financial products and services through digital technology is key. Financial systems thus become more reliable and transparent, and user interactions smoother. In terms of user-friendliness and adding value to said interactions, cybersecurity, authentication, (mobile) payments, robo-advisors, etc all require adequate integration and packaging.

Duration hours	Type	Language	Reference
4	☼	EN	BQ110CJ

Digital Future of the Fund Industry

Investment funds industry is one of the important cornerstones of the Luxembourg financial services sector. After completing this course, participants will learn current trends and challenges related to the digitalisation of the fund industry globally, in Europe, and in Luxembourg specifically. An overview of the various technologies and the most common use cases of their adoption will be provided as well as an outline of the regulatory framework that drives innovation in the sector.

Duration hours	Type	Language	Reference
4	☼	EN	BQ113CJ

Digital Future of Wealth Management and Private Banking

Wealth management and private banking are undergoing noticeable changes recently thanks to the adoption of new technologies. After completing this course, participants will gain an in-depth understanding of the key issues and questions wealth managers are facing when confronted with digitalisation, specifically, how digitalisation may improve interactions with existing and new generation clients and in what way digital transformation can streamline operations of wealth managers. A dedicated section of the course will deal with driving a digital transformation journey in wealth management and private banking.

Duration hours	Type	Language	Reference
4	☼	EN	BQ112CJ

Digital Future of Retail Banking

At the end of the session, participants will gain an in-depth understanding of the key issues and questions retail banks are facing when confronted to digitization, and how to initiate their digital transformation journey.

Duration hours	Type	Language	Reference
4	☼	EN	BQ111CJ

Digital Transformation

Open Banking and Application Program Interfaces

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

- Explain how Open Banking affects the financial industry
- Describe valid use cases for Open Banking
- Explain what an API is
- Define how PSD2 requirements meet Open Banking
- Identify the steps to initiate an Open Banking transformation

Duration *hours*	Type	Language	Reference
4	☼	EN	BQ157CJ

Agile - Foundations, Mindset & Practices

At the end of the course, the participant will be able to:

- Explain agile as a mindset and project management framework
- Help to choose: is agility applicable in my context? What are the obstacles to overcome in relation to the current situation?

Duration *hours*	Type	Language	Reference
8	☼	EN	OE032CJ

The Human in the Digital Transformation

We are currently going through an unpredictable and turbulent period with many changes for which we are not always well prepared. Digital work is becoming the way of life for all generations, how can we prepare everyone for this?

Duration *hours*	Type	Language	Reference
7	☼	EN	IF242CJ

Digital Transition - Driving Change

At the end of this training, the participant will be able to:

- Define the Digital Enterprise
- Know the new organisational models of the digital enterprise
- Define what is change management
- Establish a framework to accompany an organisation towards the digital enterprise

Duration *hours*	Type	Language	Reference
14	☼	EN	IF241CJ

Distributed Ledger Technology (DLT) and Blockchain

Distributed Ledger Technology (DLT)

- The notion and characteristics of the Distributed Ledger Technology (DLT)
- Types of DLT
- Opportunities and threats of the DLT
- Overview of the cryptocurrency markets
- Applications of the DLT in the banking / financial sector and beyond

Duration hours	Type	Language	Reference
4	☼	EN	BQ117CJ

Crypto-Assets and Tokenisation

- Gain an in-depth knowledge on the crypto-assets and tokenisation market (business, legal and technical approach)
- Have hands-on experience on useful practical aspects such as: using a wallet, transferring crypto assets and tokens
- Issuance of tokens (tokenisation), secure store and custody of the tokens, manage tokens and tokens analytics

Duration hours	Type	Language	Reference
4	☼	EN	BQ196CJ

Distributed Ledger Technology and Crypto-Assets - Regulatory Framework

Emergence and further adoption of the Distributed Ledger Technology (DLT) and its specific use-cases such as crypto-assets led to the development of specific sets of regulations that frame the usage of the technology in the financial services sector. After completing this course, participants will learn key elements of the following EU regulatory acts:

- Regulation (EU) 2022/858 on a Pilot regime for market infrastructures based on distributed ledger technology
- Regulation (EU) on Markets in crypto-assets
- Other key legislative acts that regulate the usage of crypto-assets from the AML/KYC point of view such as the forthcoming recast of the (EU) Transfer of funds Regulation and the Luxembourg Law of 12 November 2004 as amended.

Duration hours	Type	Language	Reference
3	☼	EN	BQ118CJ

The Internet of Assets - Web3 (Blockchain, Crypto, NFTs)

At the end of the course the participant will be able to:

- Know about Ethereum, Ether and Smart Contracts
- Understand the promise of Web3
- Interact with and use Web3 through a wallet
- Know how to spot and avoid scams

Duration hours	Type	Language	Reference
3	☼	EN	MC108CJ

Data Analytics & Artifical Intelligence

Artificial Intelligence in Finance - Fundamentals

After completing this course, the learner will be able to understand:

- Concepts of Artificial Intelligence (AI)
- Understanding of AI Key Words
- Required competencies for AI projects implementation
- Opportunities and threats of AI
- Broad overview of AI in FSI
- Examples of AI use cases in financial services

Duration *hours*	Type	Language	Reference
4	☼	EN	BQ123CJ

Data Analytics in Banking – Fundamentals

After completing this course, the learner will be able to understand:

- Concepts of Data Analytics
- Issues that Data Analytics can solve
- Data Analytics Key Words
- Competencies needed
- Business applications and processes of Data Analytics
- Promises and pitfalls of Data Analytics
- Examples of FinTech firms

Duration *hours*	Type	Language	Reference
4	☼	EN	BQ116CJ

Robotisation in Banking

At the end of the session, participants will have a better understanding of how robotisation is impacting the banking industry as well as of the opportunities and challenges that lie ahead. The training will also allow them to grasp keywords in robotisation such as RPA, R&IA, Cognitive Automation.

Duration *hours*	Type	Language	Reference
4	☼	EN	BQ189CJ

Knowledge Discovery and Data Architecture to Know your Customer

At the end of the course the participants will be able to:

- Recognise their organisation's data pipeline
- Identify knowledge discovery projects in their environment
- Story telling for a data mining project from an ethics and policies point of view
- Design the main stages of a data mining project
- Formulate and visualise the insights behind each set of data using models
- Hands-on a data mining project using customer behaviour data
- Process mining

Duration *hours*	Type	Language	Reference
3	☼	EN	MC110CJ

Data Analytics & Artifical Intelligence

Robo-advisor - Developing AI and Machine Learning Applications

At the end of the course the participant will be able to:

- Define the digitalization need of their organization
- Identify AI projects in their professional and / or private environment
- Distinguish the different fields of fintech applications
- Design the main stages of a robo-advisor
- Identify different types of APIs
- Justify fintech from policies point of view
- Formulize and visualize the story behind each fintech project
- Develop different fintech applications from zero to hero

Duration hours	Type	Language	Reference
3	☼	EN	MC111CJ

Neuromarketing & Artificial Intelligence-How to Improve a Brand's Communication on Social Media

At the end of the course the participant will be able to:

- Improve a brand's communication on social media using Neuromarketing & Artificial Intelligence
- Create different messages (content and media types) for various social media platforms and publish on collaborative platforms (e.g., Padlet.com)
- Learn how to use diverse digital neuromarketing and analytics tools in order to craft social media strategies more efficiently (e.g., machine learning solution)
- Receive more information on how to find and select social media and digital influencers for company/brand using special analytics tools, etc.).

Duration hours	Type	Language	Reference
3	☼	EN	MC107CJ

Data-Driven Mindset

The challenge faced by many organisations is that the use of data in the work environment is a skill set that is assumed to exist, yet is often lacking in many business professionals. For example, the 'digital native' who understands technology and applications, but not the analysis of data. The project manager who has many performance measures yet does not seem to be able to measure success nor motivate their colleagues. Without a fundamental understanding of the impact of data on the world around, business professionals will struggle to take full advantage in their jobs and organisations of the new horizons offered by digital technologies.

The overall goal is that by the end of the programme, attendees should feel that their own perception on data and its use should have fundamentally changed and that they can identify the skills of "data & digital" they may want to develop in order to be a more effective business professional.

Duration hours	Parcours certifiant	Language	Reference
40	✓	EN	IF003PC

En savoir plus
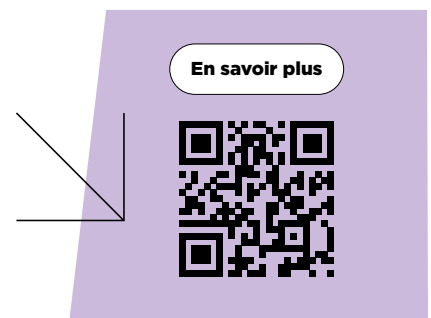
Outsourcing

Cloud Computing Officer in Financial Institutions – Fundamentals

At the end of the session, participants will understand the fundamentals of cloud computing including different governance models and service delivery models, develop a knowledge of the requirements of relevant CSSF Circulars and understand the risk management for cloud outsourcing.

Duration hours	Type	Language	Reference
4	☀	EN	BQ125CJ

Cloud Officer & Outsourcing - Certified programme

At the end of the course, the participants must be able to:

- Understand the role and responsibilities of the cloud officer / outsourcing officer
- Have an overview of the applicable circulars including CSSF Circular 22/806 and the domains covered in this circular. It will enable them to make their choices including gap analysis and remediation actions for conformity with this circular.
- Understand and demonstrate different service and delivery models of cloud computing
- Understand and demonstrate the risk management for outsourcing arrangements (ICT, cloud, and business process outsourcing)
- Understand and demonstrate security aspects and principles of cloud computing
- Practically manage the outsourcing operations

Duration hours	Parcours certifiant	Language	Reference
42	✓	EN	BQ161CJ

Outsourcing Regulation in Finance

At the end of this session, participants will be able to understand the definition of outsourcing, develop a knowledge of the CSSF and European Banking Authority outsourcing regulatory requirements and understand the outsourcing governance framework and outsourcing process.

Duration hours	Type	Language	Reference
4	☀	EN	BQ159CJ

Cybersecurity

Cybersecurity Awareness

Cybersecurity is vital if you need to protect sensitive data, or prevent systems from malfunctioning. Being aware of the dangers that roam on the internet and other threats that can harm your IT infrastructure, is essential when working with technology. Nowadays almost everyone is using IT in some form, that's why cybersecurity awareness training is beneficial to you and your organisation.

Duration *hours*	Type	Language	Reference
3	☼	EN	IF254CJ

Cybersecurity – Fundamentals

At the end of the session, participants will:

- Get an introduction to cyber security (vocabulary, concepts, challenges, etc.)
- Gain a high-level understanding of the various security risks and threats targeting organisations today
- Understand the link between cyber security and risk management
- Understand what boards of organisations need to ask and consider for adopting or strengthening cyber security in their organisations
- Identify industry standard frameworks and best practices that help an organisation to achieve a robust and mature cyber security posture

Duration *hours*	Type	Language	Reference
4	☼	EN	BQ161CJ

Cybersecurity - Regulatory Framework

At the end of this session, participants will be able to understand the EU cybersecurity ecosystem and regulatory framework for the financial services sector covering the following aspects:

- Regulation (EU) 2022/2554 on digital operational resilience for the financial sector
- Directive on security of network and information systems (NIS Directive) and its review (NIS2 Directive)
- European Union Agency for Network and Information Security (ENISA)
- Cybersecurity Act
- Cybersecurity certification framework

Duration *hours*	Type	Language	Reference
4	☼	EN	BQ162CJ

En savoir plus

Cybersecurity

Cybersecurity Management

At the end of this course, the participants will have an overall view of Cybersecurity and the problems related to this subject, which will allow them to guide their choices and their mission taking into account the risks associated with Cybersecurity.

Duration *hours*	Type	Language	Reference
4	☼	EN	BQ163CJ

- Covered the various areas of Cybersecurity
- Obtained notions of user safety - individual behavior (passwords, email, mobility, social networks) and basic notions of Cybersecurity
- Obtained answers to the following questions:
- What is the purpose of Cybersecurity?
- How to manage security?
- What are the security and defense controls?
- What are the means to respond to security incidents?
- Understood how an attack is performed
- Reviewed the context of regulation
- Reviewed ethics and standards related to Cybersecurity

EC-Council's Certified Chief Information Security Officer (CCISO)

The EC-Council's Certified Chief Information Security Officer (CCISO) programme brings together certified leading information security professionals around the world. The programme comprises three components: Training, Body of Knowledge, and the CCISO exam.

In the development of each component, committees of information security executives were formed to guide the creation of each facet of the programme. The CCISO Advisory Board contributed by forming the foundation of the programme and outlining the content that would be covered by the exam, body of knowledge, and training. Some members of the Board contributed as authors, others as exam writers, others as quality assurance checks, and still others as trainers.

Each segment of the programme was developed with the aspiring CISO in mind and looks to transfer the knowledge of seasoned professionals to the next generation in the areas that are most critical in the development and maintenance of a successful information security programme.

Duration *hours*	Parcours certifiant	Language	Reference
40	✓	EN	IF012PC

Certified Ethical Hacker – CEH

This is the worlds most advanced ethical hacking course with 18 of the most current security domains any ethical hacker will ever want to know when they are planning to beef up the information security posture of their organization. In 18 comprehensive modules, the course covers 270 attack technologies, commonly used by hackers.

Duration *hours*	Parcours certifiant	Language	Reference
40	✓	EN	IF006PC

ISO/IEC27002 Information Security – Foundation

Closely aligned with the ISO27001 Standard, ISO27002 serves as a practical guideline for all members of staff as they initiate, implement and maintain an information security programme. An understanding of the best practice guidance as outlined in ISO27002 is essential to ensure the compliance to ISO27001 in any organisation. The ISO27002 ISMS Foundation Course delivers a comprehensive education in ISO27002 best practice and a recognised industry standard certification awarded by EXIN.

Duration *hours*	Parcours certifiant	Language	Reference
14	✓	EN	IF015PC

Information Systems Management

ITIL® 4 - Foundation & Certification

Closely aligned with the ISO27001 Standard, ISO27002 serves as a practical guideline for all members of staff as they initiate, implement and maintain an information security programme. An understanding of the best practice guidance as outlined in ISO27002 is essential to ensure the compliance to ISO27001 in any organisation. The ISO27002 ISMS Foundation Course delivers a comprehensive education in ISO27002 best practice and a recognised industry standard certification awarded by EXIN.

Duration *hours*	Parcours certifiant	Language	Reference
4	✓	EN	IF015PC

COBIT® 2019 – Foundation

This best practice framework enables an IT organisation to be effectively organised and controlled. COBIT® focuses on good governance, management, digitisation strategy, risk management and control of IT processes.

COBIT® 2019 is designed to continually evolve to respond to the ever-changing technologies and challenges that businesses face today and in the future. COBIT® 2019 presents the latest knowledge of IT control and decision making in the field of information technology. The latest version of the framework includes principles, processes, practices and models that are accepted worldwide.

The business model integrates other important repositories, including the Information Technology Infrastructure Library (ITIL), the Open Group Architecture Framework (TOGAF) and related International Organization for Standardization (ISO) standards.

Duration *hours*	Parcours certifiant	Language	Reference
4	✓	EN	IF013PC

TOGAF 9 Foundation

TOGAF9® is the foremost generic framework in the field of IS/IT Architecture. It contains substantial guidance on what to do to establish an architecture practice and then how to use it in connection with planning the longer-term transformation of the enterprise (strategic architecture), and designing capabilities to support it.

Duration *hours*	Parcours certifiant	Language	Reference
16	✓	EN	IF011PC

En savoir plus

Data protection

General Data Protection Regulation (GDPR) – Fundamentals

The Regulation (EU) 2016/679, also referred to as the General Data Protection Regulation (GDPR) is a European Union regulation setting the worldwide benchmark for the protection of personal data. This training is designed to introduce personal data protection to a wide audience that wish to familiarise themselves with the core tenets of this law.

Duration hours	Type	Language	Reference
2	☼	EN	BQ195CJ

Data Protection Officer in Financial Institutions – Fundamentals

- At the end of this training unit, the participants will be able to have a deep understanding of basic GDPR requirements.
- On top of that, we expect to equip you with the right knowledge in terms of DPO job requirements and responsibilities, and giving you the right toolkit to perform your functions as DPO.
- Finally we will analyse different use cases and situations in diverse companies and how DPO role has been incorporated.

Duration hours	Type	Language	Reference
4	☼	EN	BQ124CJ

General Data Protection Regulation (GDPR) - Leveraging Data

This course is about leveraging personal data to deliver real value in a GDPR world where privacy is increasingly desired, yet threatened. It is designed for entities / corporates that want to enhance the stakeholder experience using personal data as a differentiator, while applying consistent standards and processes for the compliant and secure handling of personal data.

Duration hours	Type	Language	Reference
4	☼	EN	BQ121CJ

Personal Data and Information Security - Legal Stakes and EU Rules

Upon successful completion of this course, participants will be informed on:

- Luxembourg and EU data protection rules
- How to make their organisation compliant
- Practical issues and situations, and impact in terms of internal organisation
- Applicable EU (GDPR) and Luxembourg (Law of 1 August 2018) rules

Duration hours	Type	Language	Reference
7	☼	EN	IF026CJ

Digital Payments

Instant Payments

The objective of this learning course is to acquire knowledge about Instant Payments, its opportunities and challenges.

Duration *hours*	Type	Language	Reference
4	☼	EN	BQ156CJ

Payment Services Directive (PSD2) - Compliance Framework

After the training, the participant shall be able to:

- Understand the core objectives of the PSD2 framework and the impact of APIs to payment service providers
- Understand requirements on strong customer authentication
- Analyse the potential future developments and strategic challenges and opportunities for banks and FinTech firms

Duration *hours*	Type	Language	Reference
4	☼	EN	BQ122CJ

Project Management

Change Management APMG – Foundation

The course programme focuses on the impact of change in four key areas:

- Change and the individual
- Change and the organisation
- Communication and stakeholder involvement
- Change management practices

Duration *hours*	Type	Language	Reference
21	☼	EN	OE020PC

Méthode Agile Scrum

La formation sur les essentiels d'Agile convient aux personnes qui ont besoin de comprendre l'impact de cette méthodologie sur leur entreprise, leurs opérations et leur équipe. Ce cours met l'accent sur les valeurs et les principes de l'agilité. Une compréhension de la gestion de projet et/ou du développement de logiciels peut être bénéfique, mais aucune connaissance technique n'est requise.

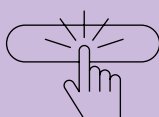| Duration *hours*	Type	Language	Reference
16	☼	FR	OE042CJ

Programme

More information on the content and objectives of the trainings, target audiences, dates and exact schedules are available on our website:
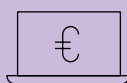
houseoftraining.lu

Registration & fees

Registration for the training modules and/or exams is to be made online via our website at least 5 days before the beginning of the training course/exam.

The fees indicated in this flyer represent the basic fees. They can vary, depending on several options chosen by the participant (training material, exam fees, etc.). All prices are indicated without VAT (3%).

Training location

Unless otherwise indicated in the registration confirmation, all courses take place at the:

Training Centre in the Chamber of Commerce
7, rue Alcide de Gasperi
L-1615 Luxembourg

Contact

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www.houseoftraining.lu

ABBL

The ABBL is the largest professional association in the financial sector, representing the majority of financial institutions as well as regulated financial intermediaries and other professionals in Luxembourg, including law firms, consultancies, auditors, market infrastructures, e-money and payment institutions. This makes it truly representative of the diversity of the Luxembourg financial centre, placing it in a unique position, able to give the entire sector a voice at both national and international level.

The ABBL provides its members with the intelligence, resources and services they need to operate in a dynamic financial market and in an increasingly complex regulatory environment. It facilitates an open platform to discuss key industry issues and to define common positions for the entire sector.

House of Training

Formally established in 2015, the House of Training brings together, under a single roof, the training institutes of both the Chamber of Commerce and the Luxembourg Bankers' Association (ABBL), who are renowned for their expertise and their vast offerings in the fi eld of continued vocational training in Luxembourg.

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