RegTech and SupTech for Financial Sector Supervision

30 May – 3 June 2027
Cairo (Egypt)



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Introduction

As financial systems become increasingly complex and technology-driven, regulators and supervisors face growing pressure to strengthen oversight while improving efficiency, accuracy, and responsiveness. Regulatory Technology RegTech and Supervisory Technology SupTech are reshaping how authorities monitor compliance, detect emerging risks, and safeguard financial stability.

This intensive one-week course is designed to equip financial regulators, supervisors, and policy professionals with a practical understanding of how RegTech and SupTech tools can be deployed to enhance supervisory effectiveness. The programme focuses on data-driven supervision, automation, advanced analytics, and digital regulatory reporting, with particular emphasis on governance, risk management, and regulatory decision-making.

By combining regulatory theory with real-world use cases from central banks and supervisory authorities, the course enables participants to assess, adopt, and oversee RegTech and SupTech initiatives within their institutions.

Course Objectives

By the end of this course, participants will be able to:

- Understand the concepts, scope, and strategic value of RegTech and SupTech in financial supervision.
- Identify key RegTech solutions used for compliance monitoring, regulatory reporting, and risk analytics.
- Apply SupTech tools for off-site supervision, early warning systems, and supervisory dashboards.
- Evaluate data governance, cybersecurity, and model risk considerations associated with RegTech adoption.
- Assess the regulatory implications of automation, artificial intelligence, and advanced analytics.
- Develop a practical roadmap for implementing RegTech and SupTech within supervisory authorities.



Course Outlines

Day One: Foundations of RegTech and SupTech

- Evolution of financial regulation and supervisory technology.
- Key differences between RegTech and SupTech.
- Drivers of RegTech adoption in financial regulation.
- Global trends and case studies from central banks and regulators.
- Role of RegTech and SupTech in supporting financial system stability.

Day Two: Data, Reporting, and Digital Supervision

- Transformation of regulatory reporting and digital data collection.
- Structured data, application programming interfaces, and machine-readable regulation.
- Automated compliance monitoring and regulatory reporting systems.
- Supervisory data analytics and visualization tools.
- Challenges related to data quality, standardization, and system integration.

Day Three: Risk Analytics, Artificial Intelligence, and Automation

- Use of artificial intelligence and machine learning in regulatory supervision.
- Early warning systems and predictive risk analytics.
- Automation of supervisory reviews and examinations.
- Model risk management, explainability, and governance requirements.
- Managing bias and ethical risks in regulatory artificial intelligence systems.

Day Four: Governance, Cybersecurity, and Legal Considerations

- Governance frameworks for RegTech and SupTech adoption.
- Cybersecurity risks and resilience of supervisory systems.
- Data privacy, confidentiality, and cross-border data considerations.
- Legal and regulatory implications of automated supervision.
- Supervisory accountability and decision-making in digital environments.

Day Five: Strategy, Implementation, and the Future of Supervision

- Designing a RegTech and SupTech implementation roadmap.
- Build-versus-buy decisions and engagement with technology vendors.
- Change management and supervisory capacity building.
- Measuring effectiveness and supervisory outcomes.
- Future outlook: digital regulation, embedded supervision, and regulatory innovation.



Why Attend This Course: Wins & Losses!

- Strengthen supervisory effectiveness through technology-enabled oversight.
- Gain practical insight into how leading regulators deploy RegTech and SupTech solutions.
- Improve risk detection, compliance monitoring, and supervisory responsiveness.
- Understand governance, legal, and cybersecurity risks before implementation.
- Enhance institutional readiness for data-driven and digital supervision.

Conclusion

The RegTech and SupTech for Financial Sector Supervision course provides regulators and supervisors with a structured and practical framework for adopting technology-driven oversight models. By combining strategic insight with operational guidance, the programme supports supervisory authorities in improving efficiency, strengthening risk management, and safeguarding financial system stability.

This course is particularly suitable for central banks, supervisory agencies, and regulatory professionals seeking to modernize supervision while maintaining strong governance, accountability, and regulatory integrity.

