



EUROPEAN INFORMATION TECHNOLOGIES CERTIFICATION INSTITUTE, ASBL.  
Brussels, Belgium, European Union



# CERTIFICATE

## Oleksandr Bilenko

Has successfully completed test requirements of  
The European Information Technologies Certification Programme

### EITC/IS/QCF Quantum Cryptography Fundamentals

**Certification Programme examination result:**



60%

**Certification Programme description:**

Introduction: Introduction to Quantum Key Distribution; Quantum information carriers: quantum systems, composite quantum systems; Entropy: classical entropy, quantum entropy; Quantum Key Distribution: prepare and measure protocols; Entanglement based Quantum Key Distribution: entanglement based protocols; Error correction and privacy amplification: classical post-processing; Security of Quantum Key Distribution: security definition, eavesdropping strategies, security of BB84, security via entropic uncertainty relations; Practical Quantum Key Distribution: QKD - experiment vs. theory, Introduction to experimental quantum cryptography, quantum hacking

**Certificate Programme version/revision:** EITC/IS/QCFv2r1

**Earned ECTS credits:** 2



**CERTIFICATE ID:** EITC/IS/QCF/FXR25004544

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**DATE OF ISSUE:**  
September 2025  
Brussels, Belgium  
European Union