EUROPEAN INFORMATION TECHNOLOGIES CERTIFICATION INSTITUTE, ASBL.

Brussels, Belgium, European Union

# CERTIFICATE

## Szymon Jan Lipinski

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

### EITC/IS/ISCF Information security and cryptography fundamentals

**Certification Programme examination result:** 64.44%

**Certification Programme description:**

Information security threats: intentional threats, unintentional threats, malicious software (spyware, antivirus software); Information security policy: the security policy areas, security policy rules, examples; Information security audit: audit IT tools; Introduction to cryptography: information security history, breakthroughs in cryptography, cryptology; Confidentiality and encryption techniques: substitution cypher (types, examples), number systems (writing system, system types), Boolean functions, transposition cipher (matrix-based implementation of the cipher), one-time pad (encryption, key usage); Symmetric and asymmetric cryptosystems: encryption as a mathematical process, cryptosystems (construction, usage, defects, security), ideas of quantum cryptography; Biometric systems: the biometrics term, biometric system scheme (object identification in security systems - identification characteristics); Certificates: application, structure of a certificate; Hash functions: string conversion; Digital signature: operating principles, characteristics of digital signature; Kerberos server verification: authentication, passes

**Certificate Programme version/revision: EITC/IS/ISCFv1r2**

CERTIFICATE ID: **EITC/IS/ISCF/KVG19004499**

To validate authenticity of this certificate or review its programme and test results scan/click QR code or visit:
**www.eitci.org/validate**

DATE OF ISSUE:
September 2019
Brussels, Belgium
**European Union**