EUROPEAN INFORMATION TECHNOLOGIES CERTIFICATION INSTITUTE, ASBL.

Brussels, Belgium, European Union

# CERTIFICATE

## Michal Klos

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

### EITC/CN/SCN1 Computer networking 1

**Certification Programme examination result:** 70%

**Certification Programme description:**

Introduction to Network Communications; Paradigms of network communication: circuit switching, packets switching; Network topologies: ring, star, P2P, hybrid networks, network topologies at different layers; Network theory: Layer model of network communication, ISO/OSI reference model, Logical layers of communication (physical, data link, network, transport, session, presentation, application), TCP/IP protocol stack; Technologies and protocols of communication medium layer: standards of physical layer and data link layer (LAN networks and Ethernet standard, WAN networks, network devices in physical and data link layer (network adapters, repeaters, hubs, bridges, switches), Wireless LAN and MAN networks (Wi-Fi, WiMAX), Mobile networks (1G, 2G, 3G), Multiplexing techniques: CDMA, FDMA and others; Internet - network layer protocols (data encapsulation and transmission, IPv4 protocol and addressing, subnetworks and supernetworks, IPv6 protocol, IP-MAC projection, IP addresses and symbolical names - DNS, ICMP protocol; Internet - transport protocols, ports and sockets, UDP and TCP protocols, Application layer - network services: e-mail, SMTP, POP3 and IMAP protocols, File transfer - FTP and NFS protocols, information services - HTTP and NNTP protocols; Secure network protocols: SSL, IPsec, VPN private networks

**Certificate Programme version/revision: EITC/CN/SCN1v1r2**

CERTIFICATE ID: **EITC/CN/SCN1/LEH/18004658**

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