EUROPEAN INFORMATION TECHNOLOGIES CERTIFICATION INSTITUTE, ASBL.

Brussels, Belgium, European Union

CERTIFICATE

Artur Marek Maciag

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

EITC/CN/SCN2 Computer networking 2

Certification Programme examination result: 78%

Certification Programme description:

Ethernet: operations basics, Ethernet frames, MAC protocol (CSMA/CD protocol, transmission errors, work mode negotiation), Ethernet system structure, repeaters, hubs, bridges, switches, network connection redundancy; Communication media: electric wires, twisted-pair cables, concentric cable, copper wire categories, UTP wire based networks, Optical fibres (single-mode and multi-mode optical fibres, optical fibre connectors), WLAN networks, Connectivity over radio frequencies, basic elements of wireless networks, advantages of wireless networks, 802.11 standards, WLAN security, WEP, TKIP, WPA, 802.1X, NAC, WAN networks: Frame Relay (Frame Relay in OSI model, frame error detection, typical infrastructure of FR network, FR frame structure, logical connections in FR, correlation of data transmission in channels and CIR and EIR values, overload control, Audio/Video data in FR networks, LMI protocol), Asynchronous Transfer Mode (ATM devices, ATM addresses, types of connections, cell structure, model of ATM network, ATM interfaces, ILMI protocol, PNNI protocol), ATM and computer networks (LANE standard, ATM connections in LANE 1.0, LANE 2.0, IP over ATM); IP address acquisition: ARP protocol, BOOTP protocol, DHCP protocol; DNS: history, structure and operation of DNS, name structure, DNS servers, IP routing: static routing, dynamic routing (division based on area of operations, based on routing method, dynamic routing protocol examples, requirements for routing protocols, routing metrics, RIPv1 and RIPv2 protocols, avoiding routing loops, OSPF protocol, EIGRRP protocol)

Certificate Programme version/revision: EITC/CN/SCN2v1r2

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