

This certificate is awarded to

**Igor Zaitsev**

for successfully completing

**CCNA: Switching, Routing, and  
Wireless Essentials**

offered by Astana IT University  
through the Cisco Networking Academy program.

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Laura Aldasheva  
Instructor  
Astana IT University

**01 Nov 2024**  
Completion Date

# Certificate of Course Completion

*Igor Zaitsev*

*has successfully achieved student level credential for completing the Networking Basics course.*

*The student was able to proficiently:*

- *Explain important concepts in network communication, network types, components, and connections.*
- *Explain the importance of standards and protocols in network communications.*
- *Explain how communication occurs on Ethernet networks.*
- *Explain the features of an IP address and IPv4 addresses are used in network communication.*
- *Explain features of IPv6 addressing.*
- *Explain how routers connect networks together.*
- *Use various tools to test and troubleshoot network connectivity.*
- *Configure an integrated wireless router and wireless client to connect securely to the internet.*



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*Lynn Bloomer*

Lynn Bloomer  
Director, Cisco Networking Academy

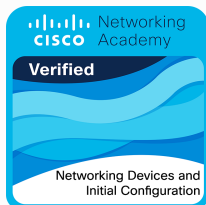
# Certificate of Course Completion

*Igor Zaitsev*

*has successfully achieved student level credential for completing the Networking Devices and Basic Configuration course.*

*The student was able to proficiently:*

- *Explain components of a hierarchical network design.*
- *Calculate numbers between decimal, binary, and hexadecimal systems.*
- *Explain how Ethernet operates in a switched network.*
- *Calculate an IPv4 subnetting scheme to efficiently segment a network.*
- *Explain how ARP enables communication on a local area network.*
- *Explain how DNS and DHCP services operate.*
- *Compare the operations of transport layer protocols in supporting end-to-end communication.*
- *Use the Cisco IOS and build a simple computer network using Cisco devices.*



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Director, Cisco Networking Academy

# Certificate of Course Completion

*Igor Zaitsev*

*has successfully achieved student level credential for completing the Cyber Threat Management course.*

*The student was able to proficiently:*

- *Explain why organizations must conform with specific compliance frameworks according to institutional context.*
- *Evaluate network and systems vulnerability.*
- *Given an organizational context, create a vulnerability assessment plan by identifying and describing relevant threats.*
- *Explain how IT systems vulnerability is assessed.*
- *Select security controls based on organizational relevance and create a risk management plan.*
- *Explain how organizations recover from cybersecurity exploits.*
- *Given organizational contexts, recommend disaster recovery and incident response activities.*
- *Explain how forensic investigations of internal and external security incidents are performed.*



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# Certificate of Course Completion

*Igor Zaitsev*

*has successfully achieved student level credential for completing the Endpoint Security course.*

*The student was able to proficiently:*

- *Explain how types of data can present unique challenges, with examples.*
- *Document and recommend threat mitigation measures for common and emerging network threats that are relevant to a given organization.*
- *Configure a simulated network according to organizational requirements.*
- *Analyze malware files that have been extracted from packet captures.*
- *Evaluate endpoint security.*



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# Certificate of Course Completion

*Igor Zaitsev*

*has successfully achieved student level credential for completing the Network Support and Security course.*

*The student was able to proficiently:*

- *Demonstrate effective troubleshooting methodologies and help desk best practices.*
- *Explain common threats, vulnerabilities, and attacks on end points.*
- *Configure secure user access on a network.*



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# Certificate of Course Completion

*Igor Zaitsev*

*has successfully achieved student level credential for completing the Network Defense course.*

*The student was able to proficiently:*

- *Use cybersecurity concepts to document a network security posture.*
- *Configure security measures on network devices and Linux and Windows endpoints.*
- *Implement phases of identity lifecycle management.*
- *Configure a simulated network firewall.*
- *Recommend cloud security measures given a scenario.*
- *Determine the appropriate data protection mechanism to ensure secure transport and storage of network data.*
- *Explain how the public key infrastructure (PKI) is used to enhance data security.*
- *Implement virtual computing environments.*



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# Certificate of Course Completion

*Igor Zaitsev*

*has successfully achieved student level credential for completing the CCNA:  
Switching, Routing, and Wireless Essentials course.*

*The student was able to proficiently:*

- *Configure VLANs and Inter-VLAN routing applying security best practices.*
- *Troubleshoot inter-VLAN routing on Layer 3 devices.*
- *Configure redundancy on a switched network using STP and EtherChannel.*
- *Explain how to support available and reliable networks using dynamic addressing and first-hop redundancy protocols.*
- *Configure dynamic address allocation in IPv6 networks.*
- *Configure WLANs using a WLC and L2 security best practices.*
- *Configure switch security to mitigate LAN attacks.*
- *Configure IPv4 and IPv6 static routing on routers.*



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