Statement of Achievement

JavaScript Essentials 1 (JSE)

The graduate of the *JavaScript Essentials 1 (JSE)* course, administered by the undersigned instructor, and provided by **Cisco Networking Academy**® in collaboration with **OpenEDG JavaScript Institute**:

- knows the syntax of the core JavaScript language to a degree that allows them to work with variables, operators, control flow, and functions;

- knows the basics of the JavaScript data types system, distinguishing between primitive and complex types, and is able to choose a type adequate to their needs;

- thinks algorithmically and can analyze a problem using a programmatic conceptual apparatus;

- knows how a program is interpreted and executed in an actual computer environment, and can design, develop, and improve very simple JavaScript programs;

- can interpret and handle basic exceptions related to errors in program execution;

- understands a programmer's work in the software development process, and the role of fundamental development tools.

Валерій Гавриленко

Student

National Transport University

Academy Name

Ukraine   **12/12/2023**

Location   Date

Laura Quintana
Laura Quintana
VP & General Manager, Cisco Networking Academy

www.netacad.com | www.javascriptinstitute.com

CISCO

Corporate
Social
Responsibility

Certificate of Course Completion

Cisco Networking Academy

Networking Essentials

The student has successfully achieved student level credential for completing Networking Essentials course administered by the undersigned instructor. The student was able to proficiently:

- Explain the concept of network communication.
- Explain the basic requirements for getting online.
- Build a simple home network.
- Explain the importance of standards and protocols in network communications.
- Explain how communication occurs on Ethernet networks.
- Create a fully connected LAN.
- Explain the DHCP address assignment process.
- Explain the principles of IPv4 and IPv6 address management.

- Explain how clients access internet services.
- Explain the function of common application layer services.
- Configure an integrated wireless router and wireless client to connect securely to the internet.
- Connect wireless PC clients to a wireless router.
- Explain how to use security best practices to mitigate attacks.
- Configure basic network security.
- Explain how to use the Cisco IOS.
- Build a simple computer network using Cisco devices.

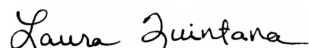**Валерій Гавриленко**

Student

National Transport University

Academy Name

Ukraine

Location

13/08/2023

Date

Laura Quintana
Laura Quintana
VP & General Manager, Cisco Networking Academy

IoT Fundamentals: Hackathon Playbook

При вивченні курсу в Мережній академії Cisco® під керівництвом зазначеного нижче викладача, студент підтвердив свої знання та навички за наступними розділами:

- Співпрацюйте з користувачами та отримуйте розуміння для вирішення проблеми.
- Визначте проблему та рішення за допомогою мозкового штурму.
- Створіть прототип IoT.

- Створіть бізнес-модель Canvas.
- Представте рішення суддівській панелі та демонструйте прототипи.

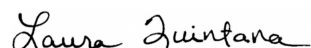**Валерій Гавриленко**

Студент

National Transport University

Назва академії

Ukraine

Місце розташування

19/04/2023

Дата

Laura Quintana
VP & General Manager, Cisco Networking Academy

IoT Fundamentals: Big Data & Analytics

For completing the Cisco Networking Academy® Big Data & Analytics course, and demonstrating the ability to perform the following:

- Explain the value of data analytics for an IoT solution.
- Describe and Apply the data analysis process to solve a problem.
- Apply Python scripts to collect, prepare, analyze and visualize or export data.
- Apply basic machine learning algorithms.

- Apply data visualization and storytelling techniques to communicate results of analysis.
- Describe approaches to data management including SQL and No-SQL solutions.
- Explain the fundamental concepts behind the main Big Data platforms.

Валерій Гавриленко

Student

National Transport University

Academy Name

Ukraine

Location

19/04/2023

Date

Laura Quintana

Laura Quintana
VP & General Manager, Cisco Networking Academy

IoT Fundamentals: Connecting Things

При вивченні курсу в Мережній академії Cisco® під керівництвом зазначеного нижче викладача, студент підтвердив свої знання та навички за наступними розділами:

- Поясніть, як IoT технології перетворюють бізнес та суспільство.
- Використовуйте датчики, виконавчі механізми та мікроконтролери (Arduino) для прототипу IoT-рішення.
- Використовуйте Python, Cisco PL-App та Raspberry Pi для прототипування IoT-рішення.
- Охарактеризуйте роль мережі та туманних обчислень у рішенні IoT.

- Опишіть, як рішення IoT можна використовувати для діджиталізації бізнес-додатків або вирішення соціальних проблем.
- Створіть діаграму бізнес-моделі для даного бізнесу чи соціального завдання, використовуючи полотно бізнес-моделі.

Валерій Гавриленко

Студент

National Transport University

Назва академії

Ukraine

Місце розташування

19/04/2023

Дата

Laura Quintana
Laura Quintana
VP & General Manager, Cisco Networking Academy

Statement of Achievement

PCAP: Programming Essentials in Python

The graduate of the *PCAP: Programming Essentials in Python* course, administered by the undersigned instructor, and provided by **Cisco Networking Academy®**in collaboration with **OpenEDG Python Institute**:

- knows the universal concepts of computer programming, including variables, data structures, algorithms, control flow, functions, and exceptions;

- can proficiently use the developer tools, the runtime environment, and the syntax and semantics of the Python language;

- can use fundamental programming techniques, best practices, customs, and vocabulary, including the most common standard library functions in Python 3;

- can write Python programs using standard language infrastructure, and knows the means by which to resolve typical implementation problems;

- knows how to work with modules and packages, process text and binary files, and use generators, iterators, and closures;

- understands the fundamentals of object-oriented programming (OOP) and the way they are adopted in Python.

Валерій Гавриленко

Student

National Transport University

Academy Name

Ukraine

Location

12/04/2023

Date

Laura Quintana
Laura Quintana
VP & General Manager, Cisco Networking Academy

Introduction to IoT

The student has successfully achieved student level credential for completing Introduction to IoT course administered by the undersigned instructor. The student was able to proficiently:

- Explain how IoT and Digital Transformation are positively impacting businesses and governments.
- Explain the importance of software and data for digital businesses and society.

- Explain the benefits of automation and artificial intelligence for digital transformation.
- Explain the concepts of Intent Based Networking.
- Explain the need for enhanced security in the digitized world.

Валерій Гавриленко

Student

National Transport University

Academy Name

Ukraine

Location

07/04/2023

Date

Laura Quintana

Laura Quintana
VP & General Manager, Cisco Networking Academy