DAILY ASSESSMENT

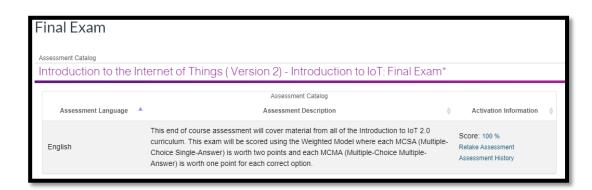| Date:	10/07/2020	Name:	Davis S. Patel
Course:	Cisco - IOT	USN:	4AL16EC045
Topic:	Educational and Business Opportunities Final Exam	Semester & Section:	8th - A
GitHub Repository:	Davis		

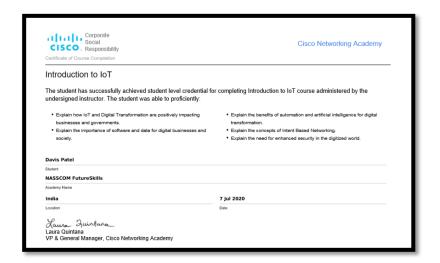| FORENOON SESSION DETAILS |
|---|
| **Image of session** |

This quiz covers the content presented in **I2IoT 2.0 Chapter 6**. This quiz is designed for practice. You will be allowed multiple attempts and the grade does not appear in the gradebook.

There are multiple task types that may be available in this quiz. In some task types, partial credit scoring is allowed to foster learning. Please note that on tasks with multiple answers, points can be deducted for selecting incorrect options.

At the completion of the quiz, some items may display feedback. The feedback will reference the source of the content. Example: "Refer to curriculum topic: 1.2.3" - indicates that the source of the material for this task is located in chapter 1, section 2, topic 3.

Form: 35284

Take the Quiz Again

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	2 minutes	16 out of 20

Final Exam

Assessment Catalog

Introduction to the Internet of Things (Version 2) - Introduction to IoT: Final Exam*

	Assessment Catalog	
Assessment Language ▲	Assessment Description	Activation Information
English	This end of course assessment will cover material from all of the Introduction to IoT 2.0 curriculum. This exam will be scored using the Weighted Model where each MCSA (Multiple-Choice Single-Answer) is worth two points and each MCMA (Multiple-Choice Multiple-Answer) is worth one point for each correct option.	Score: 100 % Retake Assessment Assessment History

CISCO Corporate Social Responsibility

Cisco Networking Academy

Certificate of Course Completion

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.

Davis Patel
Student

NASSCOM FutureSkills
Academy Name

India
Location

7 Jul 2020
Date

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

REPORT –

The last few years have given us improvements in the speed and availability of Internet services, as well as advances in cloud computing and sensor technology. These technical gains, together with recent developments in automation and artificial intelligence, have created a highly digitized world. Digitization currently impacts every aspect of our daily lives. Digitization continues to provide new opportunities for professionals who are trained to develop and support the technology that is used to deliver the IoT.

The IoT provides an immeasurable amount of information that is readily available for consumption. This information can be quickly analyzed and used to automate many processes that were previously considered impossible to turn over to machines. For example, just a few years ago self-driving cars existed only in our imaginations and now they are a reality. Think about what else has changed in your life because of the IoT.

The IoT is also freeing humans from the drudgery of routine and repetitive tasks such as restocking shelves and order fulfillment. We may now have more time for higher intellectual pursuits and the chance to explore all the IoT has to offer.

We are at a point in time in which opportunities are limited only by our imagination. We now have the ability to embrace all of the benefits that the IoT has to offer and to help shape the future.

Challenges in the Digitized World

The IoT provides many benefits but at the same time it presents many challenges. Since the IoT is a transformational technology, we are now faced with an ever expanding collection of new technology that we must master. The IoT is changing every aspect of our lives.

This is not the first time we have experienced a technological development that has such an impact. Mechanization on the farm allowed increased productivity of available farmland and started the migration of the population from rural to urban areas. The development of the automobile allowed for greater mobility of the workforce and increased recreational activities. The personal computer allowed the automation of many routine tasks with improved accuracy and efficiency. The Internet started to break down geographic barriers and improve equality between people on a global scale.

These are only a few of the transformational technologies that we have experienced in recent history. Every one of these technologies presented major changes to an established society and was met with initial fear and apprehension. After the initial fear of the unknown was overcome and the technology was embraced, the inherent benefits became obvious. Each perceived challenge opens up many new opportunities.

The Evolving Job Market

The IoT is changing the job market. Traditional jobs are being replaced with jobs that are designed to embrace this new world and all it offers.

In IT, opportunities may be specific to fog computing, developing new processes, or a specialization in a discipline that has not yet been realized. These jobs reflect skills spanning multiple disciplines that include computer science, computer engineering (a blend of computer science and electrical engineering), and software engineering in the following areas:

- Artificial Intelligence

- Application Development

- IoT Program Developer

- IoT Security Specialist

- Collaboration

- Enterprise Networks

- Data Center and Virtualization

Not all jobs created by the IoT are IT-related. The IoT should be considered an enabling technology which has applications across all industries and aspects of our daily lives. For example, a city planner uses the data collected by IoT-enabled devices to plan out new city services. Sales people use IoT technology to enhance the sales experience with the customer, and stores use IoT technology to maintain proper inventory levels to match customer demand.

The IoT has created an abundance of jobs within its sphere. These jobs exist across various spectrums of the design, development and enabling of the IoT. There are broad categories that summarize the job opportunities that exist in the evolving digitized world:

• **Enablers** – These jobs develop and implement the underlying technology.

• **Engagers** –These jobs design, create, integrate, and deliver IoT services to customers.

• **Enhancers** – These jobs devise their own value-added services, on top of the services provided by Engagers, which are unique to the Internet of Things.

Entrepreneurs needed!

The IoT is also creating a demand for a new kind of IT specialist. These are individuals with the knowledge and skillsets to develop new IoT-enabled products and process the data they collect.

An entrepreneurial workforce is needed that specializes in both information science and software or computer engineering.

Additionally, operational technologies and information technologies are converging in the IoT. With this convergence, people must collaborate and learn from each other to understand the things, the networks, and methodologies that harness the limitless potential of the IoT.

Cisco Networking Academy

The rapid growth of networks has created a global shortage of people who are qualified to implement and maintain networking solutions, especially in places where networks are being built to promote economic development. At the same time, people need access to better training and career opportunities to successfully compete in the global economy.

With over 10,400 academies in 180 countries, the Cisco Networking Academy helps individuals prepare for industry-recognized certifications and entry-level information and communication technology (ICT) careers in virtually every type of industry. The Cisco Networking Academy helps address the growing demand for ICT professionals, while improving career prospects in communities around the world.

The Cisco Networking Academy Program has trained more than five million students to date. Many graduates have gone on to successful IT careers in a variety of industries, while others have harnessed the entrepreneurial spirit and knowledge they acquired to start their own businesses and create new jobs