

## Huawei Certified ICT Associate Data Centre Facility



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Duration	Delivery Method	Level
5 days	Online / Instructor Led	Foundation

The HCIA Data Centre Facility training is aimed at people who want to have a look into the often-side-lined resources that supports the Data Centre Environment. The curriculum includes but is not limited to, an overview of Data Centre Facilities, Power Distribution System Introduction, Cooling System Introduction, Monitoring, and Management System Introduction, Fresh Air System, Cabling System, and Gas Fire Extinguishing System Introduction. With engineers who are HCIA Data Centre Facility certified, enterprises can do the basic work of management for the data centre facility.

### Audience Profile

- People who want to be Data Centre Facility engineers
- People who want to achieve the HCIA Data Centre Facility V1.0 certification
- Channel and agent engineers

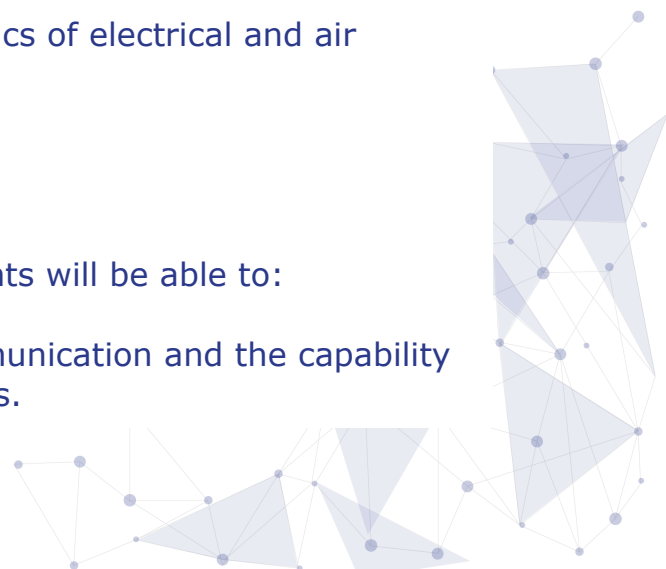
### Prerequisite

- Have a basic knowledge of the mechanics of electrical and air conditioning
- Have basic computer knowledge

### Course Objective

On completion of this program, the participants will be able to:

- Understand the definition of data communication and the capability model of data communication engineers.



- Understand the network reference model and the entire data communication process.
- Be familiar with the VRP system and be able to perform basic operations.
- Understand IPv4 address protocol and related concepts
- Understand the forwarding principles of Layer 3 devices such as routers and Layer 3 switches.
- Understand the concept of routing and use static route or OSPF to build a Layer 3 network.
- Understand basic Ethernet concepts and describe the functions and working principles of Layer 2 switching devices.
- Be familiar with common Ethernet protocols, such as VLAN, Spanning Tree Protocol, link aggregation and stacking.
- Configure ACLs and AAA to provide basic security solutions for the network.
- Be familiar with the NAT protocol and master the NAT configuration in different scenarios.
- Master the configuration of common services on enterprise networks, such as DHCP, FTP and Telnet.
- Understand basic WLAN concepts and complete basic configurations of small or medium-sized WLAN networks.

## **Course Content**

### **Module 1: Overview of Data centre Facility**

- Data Centre Development History
- Composition of the Data Centre Facility
- Power Consumption Index
- Huawei Data Centre Products

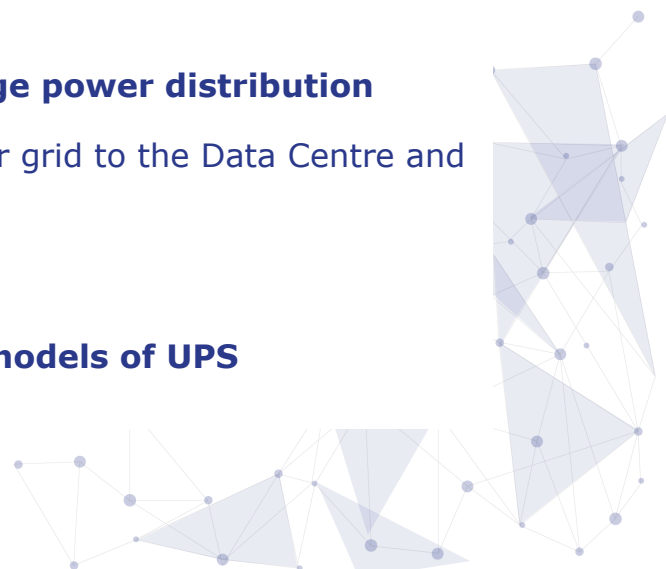
### **Module 2: Overview of electrical EHS**

- Looking at safety guidelines, protection tools, incidences and how to avoid accidents
- Importance of safety training

### **Module 3: Basic Knowledge of low-voltage power distribution**

- Basic power distribution from the power grid to the Data Centre and relevant Voltages flows.
- Understanding grounding system
- Relevant Distribution products

### **Module 4: Functions and basic working models of UPS**



- Basic understanding of a UPS and the mappings to alternate with power cuts.
- Common configuration Solution
- Basic working model of UPS

#### **Module 4: Battery application knowledge**

- Classifications and naming rules of batteries
- Structure and working principle of battery
- Application Scenarios

#### **Module 5: Network Virtualisation introduction**

- Network virtualisation overview
- Software defined network introduction

#### **Module 6: Basic Knowledge of precision air conditioner**

- Precision Air Conditioner Function
- Huawei Air Conditioner Series
- Air-cooled Precision Air Conditioner
- Chilled-water Precision Air Conditioner

#### **Module 7: Air conditioning systems introduction**

- Classification of Air Conditioning Systems
- Common Air Processing Devices
- Air System of an Air Conditioning System

#### **Module 8: Basic Knowledge of the monitoring system**

- Introduction to Monitoring System and Data Centre Monitoring System
- Basic interface and Communication Protocols

#### **Module 9: Functions of the monitoring system**

- Describe the features and advantages of the monitoring system
- Understanding the main functions of the monitoring system

