

HW-DCFA



HUAWEI CERTIFIED ICT ASSOCIATE DATA CENTER FACILITY

DURATION	LEVEL	TECHNOLOGY	DELIVERY METHOD	TRAINING CREDITS
5 Days	Associate	Data Center Facility	ILT	Huawei Learning Vouchers

INTRODUCTION

The HCIA Data Center Facility training is aimed at people who want to have a look into the often-sidelined resources that supports the Data Center Environment. The curriculum includes but is not limited to, an overview of Data Center 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 Center Facility certified, enterprises are able to do basic work of management for data center facility.

AUDIENCE PROFILE

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

PREREQUISITES

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

COURSE OBJECTIVES

Upon completion of this course, delegates should be familiar with the following:

- Understand facility protection requirements
- Understand all kinds of facility safety standards
- List the main components of the Data Center
- Outline Data Center facility main functions of each module
- Describe the main products of Huawei Data Center
- Describe the basic structure of the Data Center power distribution system
- Describe the main functions of each device in the power distribution system
- Understand how UPS works and describe the basic working principle of the battery
- Describe the composition of the air conditioning system and outline the main air conditioner products of Huawei
- Describe the structure of the Data Center monitoring system
- Describe the monitoring object and implementation of the Data Center monitoring system
- Describe the network of Huawei monitoring system
- Describe the basic logic of the work of the fire system

COURSE CONTENT

Module 1: Overview of Data Center Facility

- Data Center Development History

- Composition of the Data Center Facility
- Power Consumption Index

- Huawei Data Center 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 Center and relevant Voltages flows.
- Understanding grounding system
- Relevant Distribution products

Module 4: Function and basic working modes of UPS

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

Module 5: Battery application knowledge

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

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.

Module 10: Functions of fresh air system, cabling system and gas fire extinguishing system

- Fire Extinguishing System Introduction
- Components of Data Center Fire Extinguisher System
- Fresh Air System
- Cabinet System, Integration Cabling System
- Indoor Decoration System

ASSOCIATED CERTIFICATIONS & EXAM

This course will prepare delegates to take the HCIA-Data Center Facility V1.0 exam # H12-411 it includes but not limited to the following: Data Center facility, electrical EHS, power distribution system, cooling system, monitoring system, fresh air system, cabling system and gas fire extinguishing system.