

## UC THEORY INTERMEDIATE (ALPHA) EXAM BLUEPRINT

UCTINT-ALPHA-EX

### EXAM OVERVIEW

The UC Theory Intermediate (Alpha) Exam (UCTINT-ALPHA-EX) verifies that the successful candidate understands the core Unified Communication and Collaboration theoretical concepts which will enable them to follow a Professional level certification within the **Poly Expert Program**.

### OBJECTIVES

This exam is designed to help verify that technical support staff, system installers and solution designers who are designing, deploying and supporting Unified Communications solutions have a fundamental knowledge of core technologies used as part of a customer Unified Communication solution.

The UCTINT-ALPHA-EX exam is a required component of all Professional Level certifications in the Poly Expert Program.

### TARGET AUDIENCE

This exam is appropriate for all technical audiences involved with the deployment, support and operation of Unified Communication and Collaboration solutions.

### ASSOCIATED CERTIFICATIONS

The UC Theory Intermediate (Alpha) Exam (UCTINT-ALPHA-EX) is a component of the Poly Expert Program and is a required element of the following certification paths:

- **Poly Voice Professional (VOICE-PRO)**
- **Poly Video Professional (VIDEO-PRO)**
- **Poly Infrastructure Professional (INFRA-PRO)**

### RECOMMENDED STUDY

In order to successfully complete the UCTINT-ALPHA-EX exam, Poly University recommends the following learning:

- UC Theory Intermediate (Alpha) Exam Preparation course (UCTINT-ALPHA)

## UC THEORY INTERMEDIATE (ALPHA) EXAM (UCTINT-ALPHA-EX)

### FORMAT FOR THE EXAM

This exam is presented as an online multiple-choice assessment.

The assessment contains a total of **30** questions, and you will have **60** minutes to complete the examination.

A score of **70%** or higher is required to pass the exam.

**Exam Duration:**     **60 minutes**

**Questions  
Presented:**     **30 questions**

**Pass Grade:**     **70% / 21 questions**  
*You must correctly answer 21 questions or  
more to achieve a pass mark for this exam*



## DETAILED STUDY OBJECTIVES

The questions for the UCTINT-ALPHA-EX assessment are designed to test your understanding of the key theoretical concepts underpinning a Unified Communication solution.

The following is a detailed list of objectives that have been used to derive the exam questions.

Note: Exam questions and learning objectives are subject to change without notice.

### 1. SWITCHES

- 1.1. Identify the size and components of an Ethernet Frame
- 1.2. Describe the functions of a switch
- 1.3. Identify the power levels supported by the 802.3af standard
- 1.4. Describe the benefits of implementing VLANs
- 1.5. Define the maximum number of VLANs supported by 802.1Q
- 1.6. Define components of 802.1Q Frame Format
- 1.7. Describe the filtering and forwarding decision process used by Ethernet switches
- 1.8. Define the function of a MAC table in an Ethernet Switch
- 1.9. Identify Layer 2 protocols used to negotiate PoE requirements
- 1.10. Describe enhancements in switch technology

### 2. INTERNET PROTOCOL OVERVIEW

- 2.1. Identify the IPv4 address range reserved for multicast addressing
- 2.2. Define the advantages of subnetting a network address range
- 2.3. Identify the three types of IPv6 address
- 2.4. Describe IPV6 addressing formats and uses within an IPV6 network
- 2.5. Identify IPV4 to IPV6 mechanisms

### 3. FIREWALL FUNDAMENTALS

- 3.1. Identify Firewall form factors
- 3.2. Describe different types of Firewall and uses in the network.
- 3.3. Describe the NAT translation process, and identify the different methods being used.

### 4. WIRELESS TECHNOLOGY

- 4.1. Identify different spread spectrum technologies and characteristics
- 4.2. Define the advantages of using different Wi-Fi frequencies.
- 4.3. Describe the Wireless media access process.
- 4.4. Identify different Wi-Fi QOS standards and marking options.
- 4.5. Identify different methods for increasing Wi-Fi performance

### 5. DHCP

- 5.1. Define what role DHCP plays in a network.
- 5.2. Describe how DHCP is setup and configuration options available.
- 5.3. Identify different DHCP server platforms and capabilities.