Your competence will be assessed as you complete the CompTIA Network+ Certification exam, (N10-005) for this course of study. This course of study may take up to 7 weeks to complete.

Introduction

Welcome
Watch the following video for an introduction to this course of study:


Overview
This course of study focuses on the practices of designing, describing, evaluating, implementing, maintaining, and securing computer networks.

Outcomes and Evaluation
There are 6 competencies covered by this course of study; they are listed in the "Competencies for Networks (CRV1)" document.

You will complete the following assessments as you work through the course of study.

Pre-Assessment
You will complete the following pre-assessment:

- LabSim "Practice Exam"

Outside Vendor Assessment
You will complete the CompTIA Network+ (N10-005). The CompTIA Network+ (N10-005) exam

- is composed of 100 questions,
- requires a minimum score of 720, and
- is 90 minutes long.

The educational code for this exam is:

- JK0-019

You will need to submit your scores to WGU after completing this exam.

Preparing for Success

The information in this section is provided to help you become ready to complete this course of study. As you proceed, you will need to be organized in your studies in order to gain competency in the indicated areas and prepare yourself to pass the final assessments.

Your Learning Resources
The learning resources listed in this section will be required to complete the activities in this course of study. Follow the instructions provided to access these resources as early as possible in order to give yourself time to become familiar with them.

If you decide to use other learning resources, particularly those found online, make certain that none qualify as a brain-dump. Using them can result in academic sanctions and loss of your certification.

Please see the full CompTIA Candidate Agreement.

Automatically Enrolled Learning Resources

You will be automatically enrolled at the activity level for the following learning resources. Simply click on the links provided in the activities to access the learning materials.

**SkillSoft and Books 24x7**
You will access SkillSoft items at the activity level within this course of study. For more information on accessing SkillSoft items, please see the “Accessing SkillSoft Learning Resources” page.

The following Books24x7 e-texts will be used in this course of study:


*Note: These e-texts are available to you as part of your program tuition and fees, but you may purchase hard copies at your own expense through a retailer of your choice. If you choose to do so, please use the ISBN listed to ensure that you receive the correct edition.*

**LabSim**
You will be linked to the following resource within the activities for this course of study:

- Network Pro (Exam N10-005)

*Note: To use LabSim (i.e., the primary learning resource for this course of study), your computer must:*

- be running Microsoft Windows XP/Vista/7 and
- meet the [minimum hardware and software system requirements](#) provided on the LabSim website.

**uCertify**
You will access the following resource from uCertify at the activity level within this course of study:

- N10-005 CompTIA Network+ (2012)
Note: The online version of the uCertify learning resource is provided to you by WGU as part of your enrollment. If you wish to use the offline version, you may purchase it yourself from uCertify.

**Additional Preparation**

There are many different learning tools available to you within your course of study in addition to the learning resources already discussed. Take the time to familiarize yourself with them and determine how best to fit them into your learning process.

**Message Boards, FAQs, Note-Taking Tool**

Message boards, FAQs, and a note-taking tool are available in every course of study.

Use the "Additional Learning Tools" page to review these tools.

**The WGU Central Library**

The [WGU Central Library](https://library.wgu.edu) is available online to WGU students 24 hours a day. The library offers access to a number of resources, including over 60,000 full-text e-books; articles from journals, magazines, and newspapers; course e-reserves; and tutorials on how to use these resources and the library. The library also includes a reference service for help with research questions or navigating the library.

For more information about using the WGU Library, view the “WGU Library: Finding Articles, Books & E-Reserves” video in the Student Resources section of [The WGU Channel](https://wgu.channel).

**Center for Writing Excellence: The WGU Writing Center**

If you need help with any part of the writing or revision process, contact the Center for Writing Excellence (CWE). Whatever your needs—writing anxiety, grammar, general college writing concerns, or even ESL language-related writing issues—the CWE is available to help you. The CWE offers personalized individual sessions and weekly group webinars. For an appointment, please e-mail [writingcenter@wgu.edu](mailto:writingcenter@wgu.edu).

**Course Mentor Assistance**

Course mentors are available to help you. Their job is to aid understanding in areas where you need to improve and to guide you to learning resources. Request their help as needed when preparing for assessments.

Course mentors cannot provide reviews of entire assessments. If you fail assessment attempts, review the provided feedback first, then ask the course mentor specific questions about what you can do to meet the competency standard. Request course mentor assistance as necessary in preparing for second attempts at objective assessments or performance task revisions. Mentors cannot guarantee you pass as they do not evaluate assessments; however, they can provide the assistance and advice necessary to help you succeed.
Take the Pre-Assessment
The pre-assessment assesses your knowledge of the content covered in this course of study. Your performance on this assessment will help guide you to the areas on which you need to focus the most attention.

Pre-Assessment

Complete the following pre-assessment:

- **LabSim "Practice Exam"**

When you take this pre-assessment, you should avoid

- studying for it in advance,
- looking up answers while taking it, and
- guessing at the correct answer (instead of simply "knowing" it).

For directions on how to receive access to this pre-assessment, see the LabSim Pre-assessment Instructions page.

Coaching Report

Review your pre-assessment coaching report (i.e., the score report that you receive from the pre-assessment).

Discuss this with your mentor to develop a study strategy that helps you strengthen weak areas. It is organized by exam objective.

Networks

As a networking professional, you are expected to understand networking components and be able to troubleshoot, install, maintain, configure, and manage basic networking infrastructures. The demand for networking professionals is on the rise; and professionals with networking and communications skills typically earn more than those without networking skills.

Competencies covered by this subject
419.3.1 - Network Topologies
The graduate distinguishes and explains network topologies, including protocols, ports, addressing schemes, routing, and wireless communication standards.
419.3.2 - Media and Topologies
The graduate differentiates and explains physical and logical topologies, including wiring standards.
419.3.3 - Network Devices
The graduate differentiates and installs/configures network devices.
419.3.4 - Network Connectivity and Performance Methodologies
The graduate identifies appropriate methodologies for troubleshooting network connectivity and performance issues in a given network environment.
419.3.5 - Network Troubleshooting Utilities and Analysis
The graduate uses hardware and software utilities to track and maintain network performance in
optimized state.

419.3.6 - Network Security Devices
The graduate differentiates and explains network security devices and methods for troubleshooting common security threats.

**LabSim**
The LabSim learning resource (TestOut Network Pro) for this course contains the following:

- Videos: 79 (14:19)
- Demonstrations: 31 (4:54)
- Simulations: 56
- Fact Sheets: 78
- Exams: 56

The LabSim modules are constructed in a manner to build off previous lessons. Complete each section in the order presented. Each module contains

- a video,
  - lecture/fact sheets, and
  - lab simulations.

It is essential to read the materials prior to attempting the simulations to ensure you have a full and applicable understanding of the concepts and competencies required for successful completion of the practice exams.

*Note: It is strongly recommended that you continue to attempt lab simulations until you can easily complete the tasks scoring 100% and pass practice exams with no less than 90% to maximize your chances of successfully passing the actual examination associated with this course of study.*

**LabSim Modules**

Because you are to complete the activities for this course of study within the LabSim learning resource, the following list of modules has been provided to

- orient you as you begin the course and
- provide an overview of the content you will be studying.

Access the following LabSim resource:

- [Network Pro](#)

Complete all of the modules within the following sections:

- 0.0 Introduction
- 1.0 Networking Basics
- 2.0 Cables and Connectors
Please remember to proceed through the activities in the specified order.

E-Text Reading

Each of the LabSim sections corresponds to a part of the CompTIA Network+ Review Guide, 2nd Edition (Exam: N10-005). See the following document for details about how LabSim and the text work together:

- LabSim Network Pro Courseware Mapping

Using uCertify

The uCertify PrepKit is a hefty tool for exam preparation, but is not very useful without the grounding provided by the other learning resources in this course of study. The uCertify learning resource is meant to complement the other learning resources for this course of study.

uCertify

Complete the following uCertify review course:

- N10-005 CompTIA Network+ (2012)

Please use the steps listed on following web page to guide your study:

- "Using uCertify"

Final Steps

Congratulations on completing the activities in this course of study! This section will guide you through the assessment process.

First Attempt Checklist

One of the many things that makes WGU unique is its competency based education model. If you know the material, all you have to do is prove it by passing the exam. If you can do this, you can accelerate the receipt of your degree.

To make sure you have the best chance possible to pass the exam on your first attempt, the following should be completed before you refer to take it:

1. Go through the course of study in its entirety. Mark as complete as you progress.
2. Pass the module quizzes at the end of each section and the Domain sections in LabSim.
3. Pass the Practice Certification Exam in LabSim scoring a minimum of 95%.
4. Read and review the CompTIA Network+ Deluxe Study Guide and takes notes as appropriate.
5. Complete the uCertify resource and pass the pre-assessment.
6. Student has spent at least 7 weeks of studying.

After completing the above sections and passing, please speak to your student mentor to have your voucher emailed to you.

If the first attempt is failed, you will be required to get in contact with the course mentor to see what went wrong and how you can prepare to make sure your second attempt is a success. Once the course mentor feels you are ready to refer for the second attempt of the exam, he or she will approve your second exam referral.

For additional information, see "Networks+ First Attempt Details".

**Assessment Information**

The activities in this course of study have prepared you to complete the CompTIA Network+ (N10-005) exam. You will finish your exam preparation and then be given instructions for how to enroll in and take your final exam.

**Accessing the LabSim Practice Exam**

Take the LabSim "Practice Exam" again. This will provide you with valuable feedback about

- your readiness to take the Certification Exam and
- more specifically, questions you miss and what sections you can refer back to in order to complete additional study.

It is recommended that you take and pass the Practice Exam at least twice with a score of 90% or higher before considering yourself ready for the assessment.

**Accessing Outside Vendor Assessments**

Complete the following outside vendor assessment:

- CompTIA Networks+ Certification Exam (educational code JK0-019)

For directions on how to receive access to outside vendor assessments, see the "Accessing Objective and Outside Vendor Assessments" page.

Your voucher will show JK0-019 which is how CompTIA codes vouchers from educational institutions. The exam is the same as the N10-005.

*Note: CompTIA announced that exams are no longer available at prometric centers* [CompTIA Certification Testing FAQs](https://www.comptia.org/certification/testing-faqs).

**Submitting Outside Vendor Assessment Scores**
After completing an outside vendor assessment, follow the directions for submitting a score report on the "Following Outside Vendor Assessment" page.

Feedback

To provide feedback for this course of study, please use the College of Information Technology COS Feedback form.

ADA Requirements
Please review the University ADA policy.