# ITNA457 Unit 5 Lab

## Introduction

LabSim Network Pro is used to provide a simulated, hands-on laboratory for the purposes of learning about important networking concepts. In an online environment it is impossible for students to work directly with a network in administrative scenarios. Therefore, LabSim is the tool that supports students in their pursuit to understand difficult concepts in an online environment.

Use of LabSim Network Pro requires a one-time registration process. You should have received an activation code from the bookstore (Words of Wisdom). Notify the bookstore immediately if you have not yet received your activation code. Contact them at [aiuonlinebooks@wordsofwisdombooks.com](mailto:aiuonlinebooks@wordsofwisdombooks.com).

Instructions for accessing LabSim can be found in the Course Materials section. You can also contact your instructor with any questions. You will have access to Network Pro for 36 months (3 years) from the date of registration.

Note that LabSim Network Pro is aligned with CompTIA’s Network+ certification. Completing this lab will not qualify you to complete the exam. One must complete several courses in order to cover all the concepts included in the certification exam. Further, completing the coursework does not conclude with automatic certification. Those students who wish to pursue certification may do so outside the classroom. For those students that qualify, they may contact the Registrar’s office for receipt of a discounted certification voucher honored by CompTIA.

***Hardware Requirements***: Refer [here](http://www.testout.com/home/support/quick-start-guides/system-requirements) to verify that you meet the necessary Hardware Requirements. Note that you will need speakers.

***Expected Time for Completion*: Three and one-half (3-1/2) hours or more depending on hardware and familiarity with LabSim**. You may complete the tasks in numerous iterations. You do not need to complete all the lab tasks in one sitting.

## Lab Description

Section 0.0 is **optional** for students who have used LabSim Network Pro during a prior course. Upon completion, you will:

* discuss importance and process for documentation ;
* explain safety;
* describe security policies, assessments and risk management.

## Lab Tasks

Each Module contains numerous Sections. The last section in each Module is a Practice Exam. The Practice Exam is **not** required. Taking the Practice Exam is **optional**. The results of the Practice Exam do **not** impact your course grade one way or the other.

All Module Sections (excluding the last Section – Practice Exam) are required unless otherwise designated.

### Module 12.0 Network Policies and Procedures

Section 12.1 Network Design, Documentation, and Policies (Review videos only: Sections 12.1.1, 12.1.2, 12.1.4, 12.1.6)

Section 12.2 Safety (Review videos only: Sections 12.2.1, 12.2.4, 12.2.6)

Section 12.3 Risk Management (Review videos only: Sections 12.3.1, 12.3.3)

Section 12.4 Security Policies and Assessments (Review videos only: Sections 12.4.1, 12.4.3, 12.4.5)

## Next Steps

The BSIT program is aligned with CompTIA certifications A+, Network+ and Security+. This course completes the sequence of courses in preparation for CompTIA Network+ certification.

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| **CompTIA Network+ Certification** |
| ITCO251 Network Infrastructure Basics |
| ITNA353 Routing and Switching |
| ITNA355 Advanced Routing and Switching |
| ITNA357 Network Security Management |
| ITNA457 Specialized Network Administration |

Students interested in pursuing certification in the area of networks may wish to gauge how well they understand these concepts in preparation for taking the certification exam.

LabSim includes materials covering two different certifications, specifically the TestOut certifications and the CompTIA certifications.

You may wish to pursue TestOut Network Pro certification. This particular exam measures an individual’s hands-on skills in networking hardware, configuring a small office/home office (SOHO) network, and connecting mobile and desktop devices to a network. For those interested in this exam, a Network Pro Certification Practice Exam is available following Chapter 16 in LabSim. In the event you are confident that you could pass the Network Pro certification exam after you have completed the LabSim Network Pro Practice Exam, contact your instructor who can schedule you for the official TestOut certification exam. There is no cost to complete this exam.

You may wish to pursue CompTIA Network+ certification. Network+ certification is achieved by passing the CompTIA Network+ Exam. This is an industry accepted and recognized certification. You can determine how well you would do on the CompTIA Network+ certification exam by completing the CompTIA Network+ Practice Exam in LabSim Network Pro. In the event you are confident that you could pass the CompTIA Network+ certification exam after you have completed CompTIA Network+ Practice Exam, contact CompTIA directly to schedule the exam. A separate fee is associated with this exam. You should contact the Registrar’s office to determine whether you qualify for a discounted exam voucher.

Refer to this URL to learn more about the CompTIA Network+ Objectives:

<http://certification.comptia.org/docs/default-source/exam-objectives/comptia-network-%28n10-006%29_examobjectives.pdf>