# ITCO211 Unit 4 Lab

## Introduction

LabSim PC Pro is used to provide a simulated, hands-on laboratory for the purposes of learning about important hardware and software concepts. In an online environment it is impossible for students to work directly with hardware or software 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 PC 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 PC Pro for 36 months (3 years) from the date of registration.

Note that LabSim PC Pro is aligned with CompTIA’s A+ 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*: Six (6) 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

Upon completion, you will:

* describe steps to install an operating system;
* backup and restore operating systems;
* configure users and groups;
* explain virtualization and how used;
* troubleshoot mobile devices .

## Lab Tasks

Each module contains numerous Sections. Each section contains sub-sections. The last sub-section contains Practice Questions related to the topic of that sub-section. The Practice Questions are **not** required. Completing the Practice Questions are **optional**. The results of the Practice Questions do **not** impact your course grade one way or the other.

## Module 8.0 Mobile Devices

Complete the following section and the denoted sub-sections.

Section 8.8 Mobile Device Troubleshooting (Review video and demo: Sections 8.8.1, 8.8.2)

### Module 9.0 System Management

### Below are numerous sections covering System Management. Many of these sections include hands-on simulations. You may complete any or all of these sections. You are required to choose three sections, at a minimum. Review all videos, demos and simulations included in those three sections that you choose to complete.

### You are required to choose and complete three sections only. But you may choose to complete anywhere from three sections to all the sections, depending upon your time availability. Note that you are permitted to return to this module at any time throughout the course and the program if you wish to complete more than the three sections required for this assignment. However, the grade for this Unit 4 IP assignment will be determined based upon the chosen sections completed during Unit 4.

Section 9.4 Users and Groups (Review video, demos and complete **simulation**: Sections 9.4.1, 9.4.2, 9.4.4, 9.4.6, 9.4.7)

Section 9.9 Updates (Review video, demos and complete **simulation**: Sections 9.9.1, 9.9.2, 9.9.4, 9.9.5, 9.9.6, 9.9.7

Section 9.10 System Backup (Review video, demos and complete **simulations**: Sections 9.10.1, 9.10.3, 9.10.4, 9.10.5, 9.10.6, 9.10.7, 9.10.8)

Section 9.11 System Protection (Review video, demos and complete **simulation**: Sections 9.11.1, 9.11.2, 9.11.3, 9.11.5)

Section 9.12 System Recovery (Review videos, demos and complete **simulation**: Sections 9.12.1, 9.12.2, 9.12.3, 9.12.4, 9.12.5, 9.12.6, 9.12.7)

### Module 10.0 System Implementation

Complete the following sections and the denoted sub-sections.

Section 10.1 Component Selection (Review video: Section 10.1.1)

Section 10.2 Windows Pre-installation (Review videos and demo: Sections 10.2.1, 10.2.3, 10.2.5)

Section 10.3 Windows Installation (Review video, demos and complete **simulation**: Sections: 10.3.1, 10.3.2, 10.3.3, 10.3.4)

Section 10.4 Post Installation (Review video and demos: Sections 10.4.1, 10.4.3, 10.4.4)

Section 10.5 Virtualization (Review videos, demo and complete **simulation**: Sections 10.5.1, 10.5.3, 10.5.4, 10.5.5)

The above Sections include the following hands-on simulations.

9.4.6 Manage Users and Groups  
9.9.4 Configure Windows Update  
9.10.6 Back Up the Computer  
9.10.8 Configure File History  
9.11.5 Create a Restore Point  
9.12.5 Restore Data from File History

10.3.3 Prepare Disks for Installation  
10.5.4 Enable VT in the BIOS