

### 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 Words of Wisdom 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 LabSim 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. You must complete several courses 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:** Click [here](#) to verify that you meet the necessary hardware requirements. Note that you will need speakers.

**Expected time for completion:** It should take you six hours or more depending on your hardware and your familiarity with LabSim. You may complete the tasks in numerous iterations. You do not need to complete all of the lab tasks in one sitting.

### Lab Description

Upon completion, you will be able to do the following:

- Describe the steps to install an operating system
- Backup and restore operating systems
- Configure users and groups

- Explain virtualization and how it is used
- Troubleshoot mobile devices

### Lab Tasks

Each module contains numerous sections. Each section contains subsections. The last subsection contains practice questions that are related to the topic of that subsection. The practice questions are not required. Completing the practice questions is 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 subsections.

- **Section 8.8:** Mobile Device Troubleshooting (Review video and demo: Subsections 8.8.1 and 8.8.3)

### 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 3 sections at a minimum. Review all videos, demos, and simulations included in the sections that you choose to complete.

You are only required to choose and complete 3 sections, but you may choose to complete anywhere from three sections to all of 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 Individual Project assignment will be determined based upon the chosen sections completed during Unit 4. Choose from the following sections:

- **Section 9.4:** Users and Groups (Review video, demos, and complete simulation: Subsections 9.4.1, 9.4.2, 9.4.4, 9.4.6, and 9.4.7)
- **Section 9.9:** Updates (Review video, demos, and complete simulation: Subsections 9.9.1, 9.9.2, 9.9.4, 9.9.5, 9.9.6, and 9.9.7)
- **Section 9.10:** System Backup (Review video, demos, and complete

simulations: Subsections 9.10.1, 9.10.3, 9.10.4, 9.10.5, 9.10.6, 9.10.7, and 9.10.8)

- **Section 9.11:** System Protection (Review video, demos, and complete simulation: Subsections 9.11.1, 9.11.2, 9.11.3, and 9.11.5)
- **Section 9.12:** System Recovery (Review videos, demos, and complete simulation: Subsections 9.12.1, 9.12.2, 9.12.3, 9.12.4, 9.12.5, 9.12.6, and 9.12.7)

### Module 10.0: System Implementation

Complete the following sections and the denoted subsections:

- **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, and 10.2.5)
- **Section 10.3:** Windows Installation (Review video, demos, and complete simulation: Sections: 10.3.1, 10.3.2, 10.3.3, and 10.3.4)
- **Section 10.4:** Post Installation (Review video and demos: Sections 10.4.1, 10.4.3, and 10.4.4)
- **Section 10.5:** Virtualization (Review videos, demo, and complete simulation: Sections 10.5.1, 10.5.3, 10.5.4, and 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:** Restore Data from Backup
- **9.12.5:** Create a Restore Point
- **10.3.3:** Prepare Disks for Installation
- **10.5.4:** Enable VT in the BIOS