

Multi-State Advanced Manufacturing Consortium

RELEASE DATE

12/21/2015

VERSION

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US DOL SPONSORED TAACCCT GRANT: TC23767

PRIMARY DEVELOPER: Reggie Fluker - Henry Ford College

Digital Literacy I: Fundamentals

Unit 6 Computer Maintenance and Security LAB 1 System Maintenance

Objectives

- Properly clean, maintain, and protect external computer-parts and peripherals
- Update Windows 10 (security patches, system fixes, software releases)
- Optimize your computer's internal hard drive or external drives
- Remove unnecessary files to free up disk space

Equipment Required

- Notebook computer
- Optical mouse
- Can of compressed air
- Items to clean a computer case, keyboard, monitor, and mouse
- Desktop computer (provided by HFC)
- Stand-alone keyboard (provided by HFC)
- Mechanical mouse (provided by HFC)
- Stand-alone monitor (provided by HFC)

Introduction

Using the wrong cleaning method can damage your external computer-hardware and peripherals; so in this lab, you will demonstrate how to properly clean and maintain the computer case, keyboard, monitor, mechanical-and optical-mouse.

It's also important to maintain the computer's software and file system in order to keep your PC running smoothly. So, you will also demonstrate how to keep Windows 10 up-to-date, find and delete unnecessary files, and optimize the hard-drive.

In order to perform the lab Procedure, you should know how to:

- Clean the external surfaces of the computer case and peripheral
- Locate and install updates for Windows 10
- Utilize Disk Cleanup and Disk Defragmenter







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Procedure

CLEANING

- 1. Imagine that the keyboard has collected dust and crumbs under the keys, and a sticky film on top of the keys. Demonstrate the proper method(s) to remove the dust, crumbs, and stickiness.
- 2. Clean the outside surfaces of an optical mouse
- 3. Clean the outside surfaces and inside parts of a mechanical mouse
- 4. Clean the monitor housing and screen
- 5. Clean the exterior of a desktop computer case

WINDOWS UPDATE

- 6. Check your computer for Windows updates
- 7. Select and install critical updates only

MAINTENANCE SETTINGS

- 8. Check the following maintenance settings:
 - a. Check for Solutions: On, Ask before checking
 - b. Backup: date of last backup
 - c. Check for Updates: no action needed
 - d. Troubleshooting: no action needed

DISK CLEANUP and OPTIMIZER

- 9. Using Disk Cleanup, delete "Temporary Internet Files" only from your computer's hard-drive
- 10. Use Disk Optimizer to analyze your hard-drive fragmentation
- 11. Decide whether it's necessary to defrag your hard drive

End







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