

World Skills Competition

Trade 39:

IT PC and Network Support

Day 1 Competition

- Home Computing –
- Home Office (SOHO) –

Competitor Name: _____

Country Code: _____

CONTENTS

This Test Project proposal consists of the following documentation/files:

1. TP39_38FI_Day1_EN.doc

INTRODUCTION

You work for the IT Department at a Small Consulting Company, Networkskills Company. The CEO (Chief Executive Officer) needs to implement an IT infrastructure for him and his family at home. Your CIO (Chief Information Officer) gives you the following material:

Please pay attention to the specifications to ensure that you assemble and set up PC1 properly and in accordance with the company's internal guidelines.

DESCRIPTION OF PROJECT AND TASKS

PART A (Tasks for PC1)

Note: Please use default configuration if you are not given the detail.

- Make a serial number list of the 3 peripheral elements and their specifications (Monitor, Printer, Scanner and fill in checklist). Use Appendix 1.
- Assemble PC1. Take care to follow ESD handling guidelines.
- Set up PC1 with the operating system (Windows XP Professional). Ensure that all components are correctly installed.
- Create 2 formatted partitions as follows
 - C: 4096 MB FAT partition
 - D: 4096 MB NTFS partition
 - The rest of the hard disk should remain unpartitioned.
- Please configure PC1 with the followings:

- **PC1 specifications**

Company name : Worldskills
Organization : Worldskills
Who will use this computer : competitor
Computer name : NETPC1xx {xx is the station number}
Workgroup : TRADE39
Admin password : suomi2005
User name : Administrator
TCP/IP address : 192.168.1.1
Subnet Mask : 255.255.255.0

- Create a Start-up Disk and label at disk with station number.
- Set up the scanner.
- Scan your ID card of your name tag and save it to filename imagexx {xx is the station number} at D:\competitorXX folder.
- Encrypt the file imagexx {xx is the station number}

PART B (Tasks for PC2)

- PC2 is Server system without OS.
- Set up PC2 with the operating system (Windows 2003 Server) and configure 3 SCSI hard disks to be RAID 5 and initialize them.
- Create a 4096 MB NTFS partition on the hard disk for the installation of the operating system. The rest of the hard disk should remain unpartitioned.
- Configure LAN card1 (onboard) on PC2 with the followings:
- PC2 specifications
 - Computer name : NETPC2xx {xx is the station number}
 - Workgroup : TRADE39
 - Admin password : suomi2005
 - User name : Administrator
 - TCP/IP address : 192.168.1.2
 - Subnet Mask : 255.255.255.0
- You must configure 2nd LAN card.
- Make 2 crossover cables 7 Meters (+/- 3cm) physical length and Please make a cable label.(CCxx : xx is the station number)
- Make 2 straight through cables 7 Meters(+/- 3cm) and Please make a cable label.(STxx : xx is the station number)
- Connect PC1 and PC2. Refer to Appendix 2.
- Set up local printer and webcam.
- Share printer with name NETPRINTER.
- Take a photo of yourself using the webcam, save the photo into filename photoxx {xx is the station number} at “my documents” folder and print it to the local printer.
- Print out the scanned image file (imagexx) on PC1 to network printer.
- Print out IP configurations of PC1 & PC2 and write your station number on printout.

- Make a backup of your images (ID card “imagexx” and your photo “photoxx”). The copy should be compressed and saved onto a file named compressxx (xx is your station number) at CD. Mark your CD cover with your station number.
- There is an Internet connection on PC2. (Not physically available)
- Enable other users on PC1 & PC3 to share the future internet connection from PC2 by using a default gateway.
- Print out a new IP configuration for PC1 and write your station number.

PART C (Tasks for PC3)

- **Note: Do not install OS without permission.**
- Your first task now is to locate and fix the faults on PC3.
- Fill out the fix log form provided to you. (Handwriting) Use Appendix 4.
- Connect PC2 and PC3. Use Appendix 3.
- PC3 specifications

Computer name : NETPC3xx {xx is the station number }
Admin password : suomi2005
User name : Administrator
TCP/IP address : 192.168.1.3
Subnet Mask : 255.255.255.0

Print out a IP configuration of PC3 to network printer on PC2.

Instruction to the competitor

Good luck, do your best and plan your time well.

EQUIPMENT, MACHINERY, INSTALLATIONS AND MATERIALS REQUIRED

You have the following equipment at your disposal:

Three PCs

PC1: (disassembled & No OS (Operation System))

- Motherboard, processor, power supply and cables attached to the chassis
- RAM
- HDD
- FDD
- Scanner
- CD-ROM
- USB PC camera
- LAN card on board
- Sound Card on board
- Printer
- External Speakers/ Head set
- Mouse
- TFT Monitor

PC2 (totally assembled & No OS)

- Web camera (USB PC camera)
- Printer

PC 3 (totally assembled with Windows XP professional and with faults)

Additional software

- Operating System (Windows XP Professional, Windows 2003 Server)
- Drivers for peripherals

Additional equipment

- Tool kit
- Wrist strap
- UTP Cramp Tool
- UTP Cable stripper
- UTP Cable Checker
- Hand Tools(Cutter)
- Cable Label
- UTP Cables
- RJ-45 Connectors
- Floppy Disks and labels
- Blank CDs

MARKING SCHEME

Task	Marks
A	7.10
B	11.50
C	6.40
Total	25.00

OTHER

Appendix 1

PC1 Check List Form

Station No. : _____

Name: _____

Country: _____

Description	Qty	Check (X)
keyboard (in English or from own country)	1	
wheel-mouse	1	
Computer Dell GX280 partially assembled with the motherboard, processor Intel Pentium 520HT at 2,8GHz and one ATX Power Supply.	1	
DDR2 RAM	2	
HDD SATA	2	
DVD ROM	1	
FDD	1	
External speaker/ Head Set	1	
USB PC Camera Labtec Webcam Pro	1	

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Serial No. Form

Description	Serial NO.	Qty	Check (X)
TFT 17" colour monitor		1	
HP ScanJet 2400C		1	
HP DeskJet 5740 Printer		1	

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Diagram 1

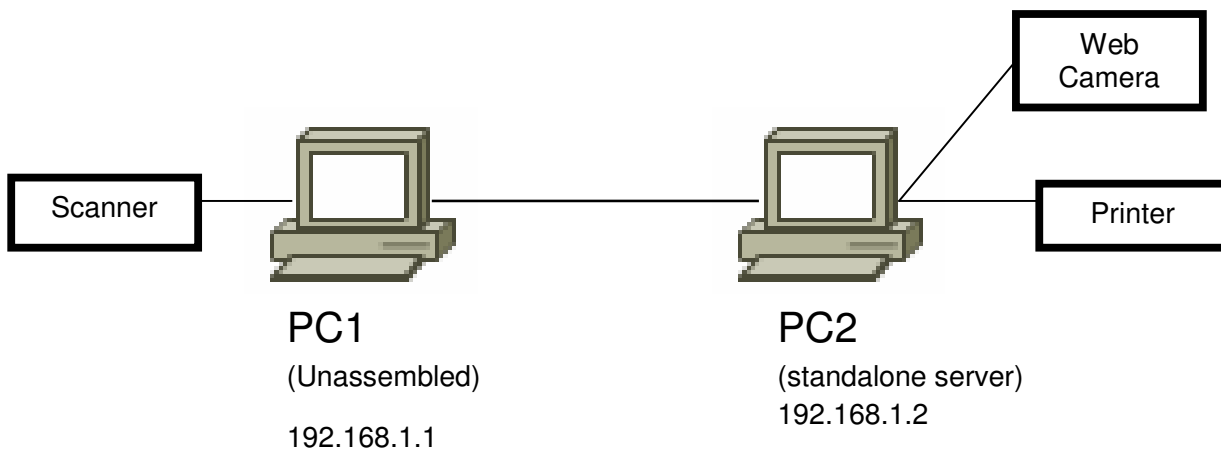
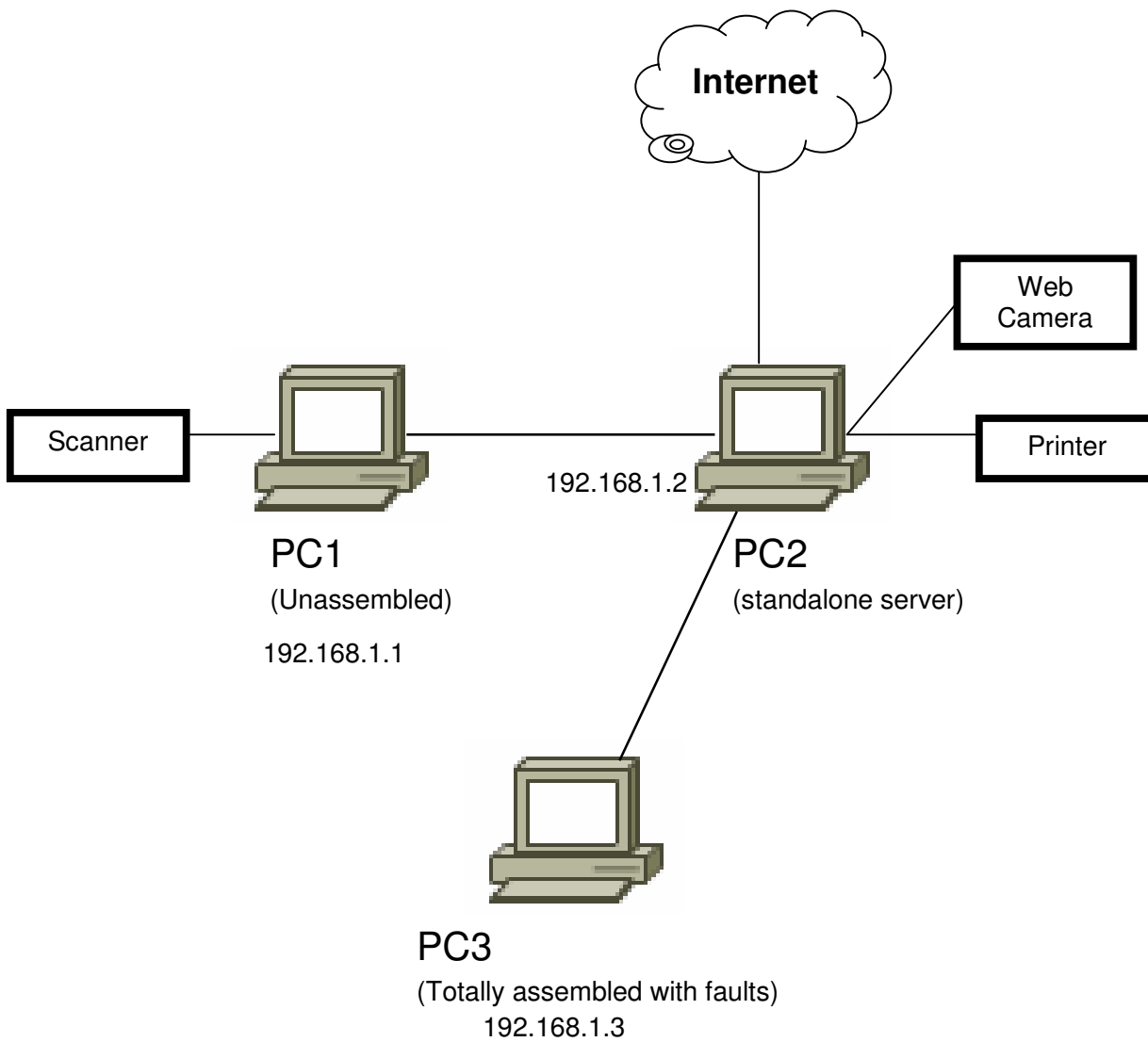


Diagram 2



PC3 FIX LOG Form
Station No. : _____

Name : _____

Country : _____

NO.	Problem	Solution