

All Academy Day: Computer-Building Event Rules

Object of the PC Assembly event:

Successfully build a DELL 270 or 280 computer from the materials provided, change the BIOS order, and create one backup partition on the hard drive.

Playing the game (Rules):

- Teams consist of 1-3 students.
- Bring your own PC tool kit. (if this is an issue, please contact Karen Woodard at woodardk@sunyacc.edu to see if one is available to borrow.)
 - One PC Tool Kit per team
 - The kit can not contain backup computer parts, or paper/electronic cheat sheets.
 - Judges will inspect your tool kit for any tool that doesn't meet this requirement and/or is potentially dangerous or could cause an unfair advantage.
 - If any of these situations occur, you will be given a label and pen to print your name and school on it and tape to the item. The judge will bring it to the front of the room for holding.
 - Remember to pick up these item(s) at the end of the event.
- Complete the following tasks in the time allotted:
 - Build one complete PC with the parts provided and set BIOS to requested boot order.
 - NOTE: Memory sticks must go in **slots 1 and 3**
 - Demonstrate assembled computer powers up by showing the judge the BIOS screens
 - Show judge that the hard drive, Floppy disk, and CD ROM are operational
 - Set up a FAT32 and/or NTFS partition on the hard drive
- The members of the team can help each other. No one else is permitted to assist the teams. Reference/cheat sheets, books or use of electronic equipment other than provided by the event is not allowed. (If observed using, team will be disqualified)
- In case of a tie in points, the team that completes the task in the shortest amount of time wins.

Earning points

25 points will be awarded for the successful completion of each of the following tasks.

- Physical connections
 - All cable inside the box must be connected according to power or data keys.
 - The jumpers must be set properly on the motherboard and drives (if necessary).
 - Parts installed/seated correctly.
- Power up
 - Each computer must power up and display a BIOS screen.
 - The BIOS must be set to read CD-ROM **first** then disk drives.
 - The power must be delivered to the monitor and PC.
- Drives reading data
 - The boot disk for the CD-ROM must appear.
 - The A drive prompt (A:) must be readable on the screen.
 - The Hard Drive, CD-ROM and floppy disk, if used, must show directories.
- Partitioning drive
 - (possibly needed) The installation program or FDISK must have been run.
 - Logical and extended partitions must be set up. One partition should be FAT32 and the other should be NTFS.

Deductions

Ten points will be deducted for each component the team breaks and any borrowed tool kit parts that are lost.

Bonus

Bonus points will be assigned to the top three teams as determined by the fastest times. To be eligible for the bonus, teams must complete each of the four tasks correctly.