



ExplorNet's Computer Engineering Technology

The following list is divided into two columns. Items listed as “minimum” are seen by curriculum team members as being necessary for the effective teaching of all the objectives in the *Computer Engineering Technology* curriculum, and the quantities or ratios our team would recommend. The “Ideal” column includes items, quantities and ratios that curriculum team members see as optimal for teaching the program, though we recognize some teachers may not have access to every resource on the list.

S=Student
 F=Facility
 T=Teacher

Equipment	Minimum	Ideal
Computer Equipment & Tools	Minimum	Ideal
Classroom Computer (Current specifications)	1:2 S	1 S
Anti-Static Strap	1 S	1 S
Basic Hand Tool Kit (for computers)	4 F	1:4 S
Phillips Screwdriver and 3/16 Nutdriver (of higher quality than those in the tool kits)	1:2 S	1:2 S
Cat5 Cabling tool kit (stripper, crimper, tester)	2 F	1:4 S
Computer kit: Reusable kit of parts to make up a working computer	1:3 S	1:2 S
Laptop kit or old laptop students can use to repair	1:3 s	1:2 S
iPad tablet	1 F	1:4 S
Android tablet	1 F	1:4 S
SOHO Router/switch	1 F	1:4 S
Access point	1 F	1:4 S
Tables on which students can construct one computer and work on (example: lab tables or industrial workstations) with 2 duplex electrical outlets	1:2 S	1 S
Multimeter	2 F	1:4 S
Safety Goggles	1 S	1 S
Storage Locker (large, lockable)	1 F	2 F
Printer (Laser / wireless)	1 F	1 F



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External Hard Drive	1 F	2 F
Network Drops	1 S	2 S
Power Strips/Surge Suppressor	1:3 S	1 S
UPS	1 F	3 F
USB Drives	1 F	1 F
SOHO Router/switch	1 F	1:4 S
LCD Projector		1 F
Scanner		1 F
Software	Needed	Recommended
Virtualization Software (Virtualbox / VMWare)	1 per Computer	1 per Computer
Antivirus/Anti-malware Software (AVG, MSE, MBAM)	1 per Computer	1 per Computer
Windows 7 License*	1 per Computer	1 per Computer
Windows 10 License*	1:2 Computers	1 per Computer
<p>*Important note: Several schools have discovered that purchasing a subscription to MSDNAA has been an effective method to manage the costs of obtaining multiple Microsoft OS licenses for their CET labs. Information on this subscription can be found at http://msdn.microsoft.com/academic/program/default.aspx.</p>		
Other Useful Resources	Needed	Recommended
A+ Certification student books	1:2 S	1 S
Internet Access	1 F	1 F
Consumable Supplies (Yearly Expense)	Recommended	
Cable Ties (miscellaneous sizes)	Varies	
Cat5 Cable	500 feet	
RJ 45 Ends	100	
Replacement / Updated Parts	Varies	