Cybersecurity Essentials Lab Groups

LAB GROUP 1
PHYSICAL ASSET PROTECTION

ACCESS POINT/ROUTER

PHYSICAL ASSET PROTECTION PANEL

TABLET COMPUTER

SOFTWARE
- PC ACCESS
- gDMSS HD
- Smart PSS
- SNAPLINK

DVR

LAB GROUP 2
LOCAL HOST SECURITY

2
3

2x USB THUMB DRIVES

BIOS ACCESS ENABLED

SOFTWARE
- AXCRYPT
- MICROSOFT SECURITY ESSENTIALS

LAB GROUP 3
LOCAL NETWORK SECURITY

4
5

SOFTWARE
- SNORT (WINPCAP)
- 7ZIP
- MICROSOFT BASELINE SECURITY ANALYZER
- CISCO CONFIGURATION PROFESSIONAL

LAB GROUP 4
INTERNET SECURITY

SOFTWARE
- WHOIS
- AXCRYPT
- OPENPUFF
- NMAP
- MD5DEEP
- WIRESHARK (WIN PCAP)

6
7

SERVER RACK

SERVER
SWITCH 1
SWITCH 2
ROUTER
UPS
FIREWALL

2x AUXILIARY COMPUTERS *SCHOOL SUPPLIED

VIRTUAL ENVIRONMENT
UBUNTU
KALI
WINDOWS OS

LAB GROUP 5
ENTERPRISE NETWORK SECURITY

8

SOFTWARE
- CISCO CONFIGURATION PROFESSIONAL

LAB GROUP 6
INDUSTRIAL IT SECURITY

PLC

INDUSTRIAL PROCESS PANEL

PROCESS SIMULATOR

SOFTWARE
- RCP
- FACTORY SIMULATION SOFTWARE

9

LAB GROUP 7
MEDICAL IT SECURITY

PROBES

LOGGER

10

SOFTWARE
- LABPRO 3
- MEDICAL DATABASE SOFTWARE

LAB GROUP 8
HACKING TOOLS

11
12

SOFTWARE
- SETOOLKIT
- APACHE 2
- LOIC
- NJRAT
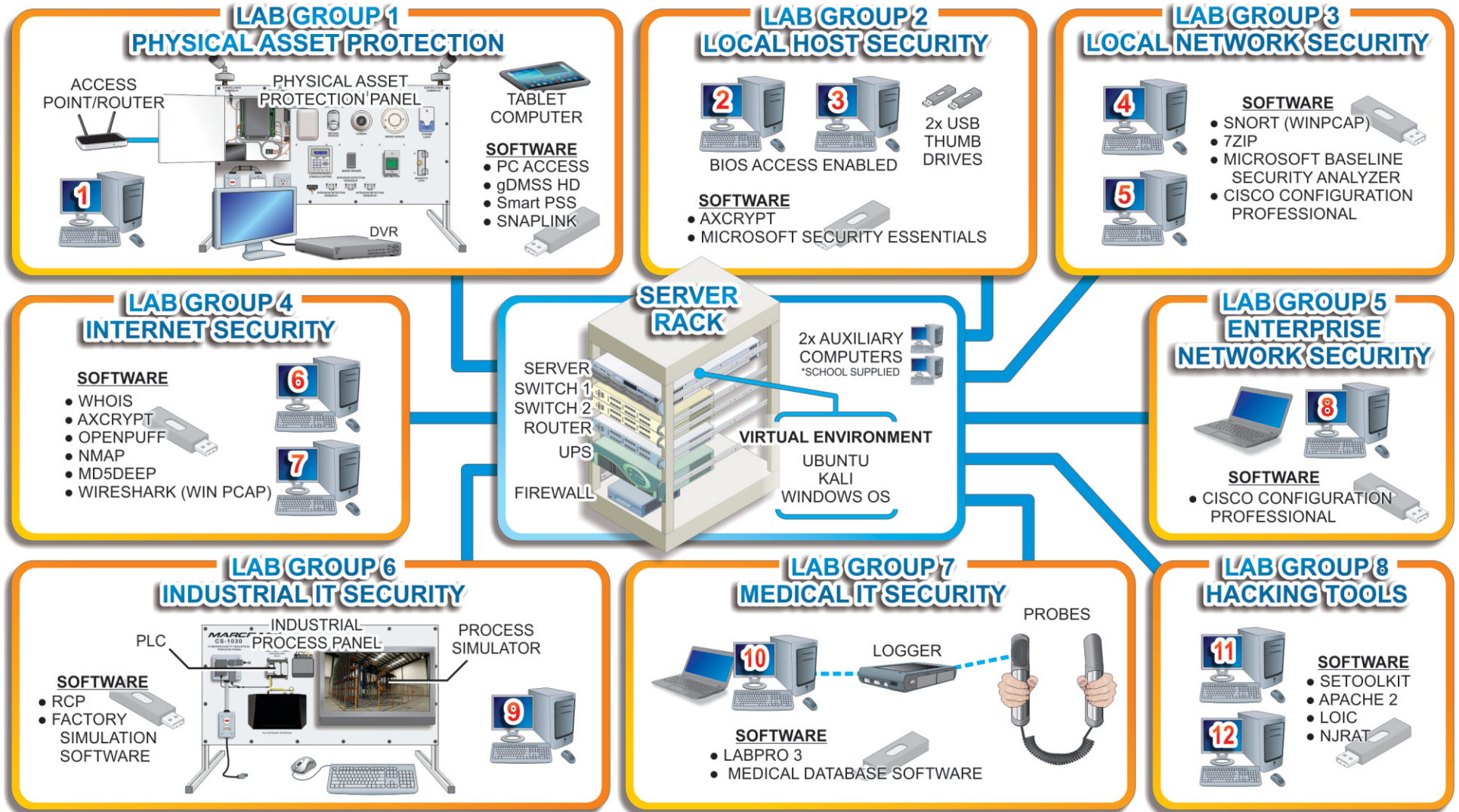
24 STUDENTS (EXPANDABLE) - 20 HOURS PER LAB GROUP

*Course requires 14 computers (12 Student PCs & 2 Auxiliary PCs) with minimal configuration from factory defaults, along with power & communication wiring.

Prepares students to Challenge:
ISACA Cybersecurity Fundamentals Certificate Exam

CompTIA Security+

MARCRAFT

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