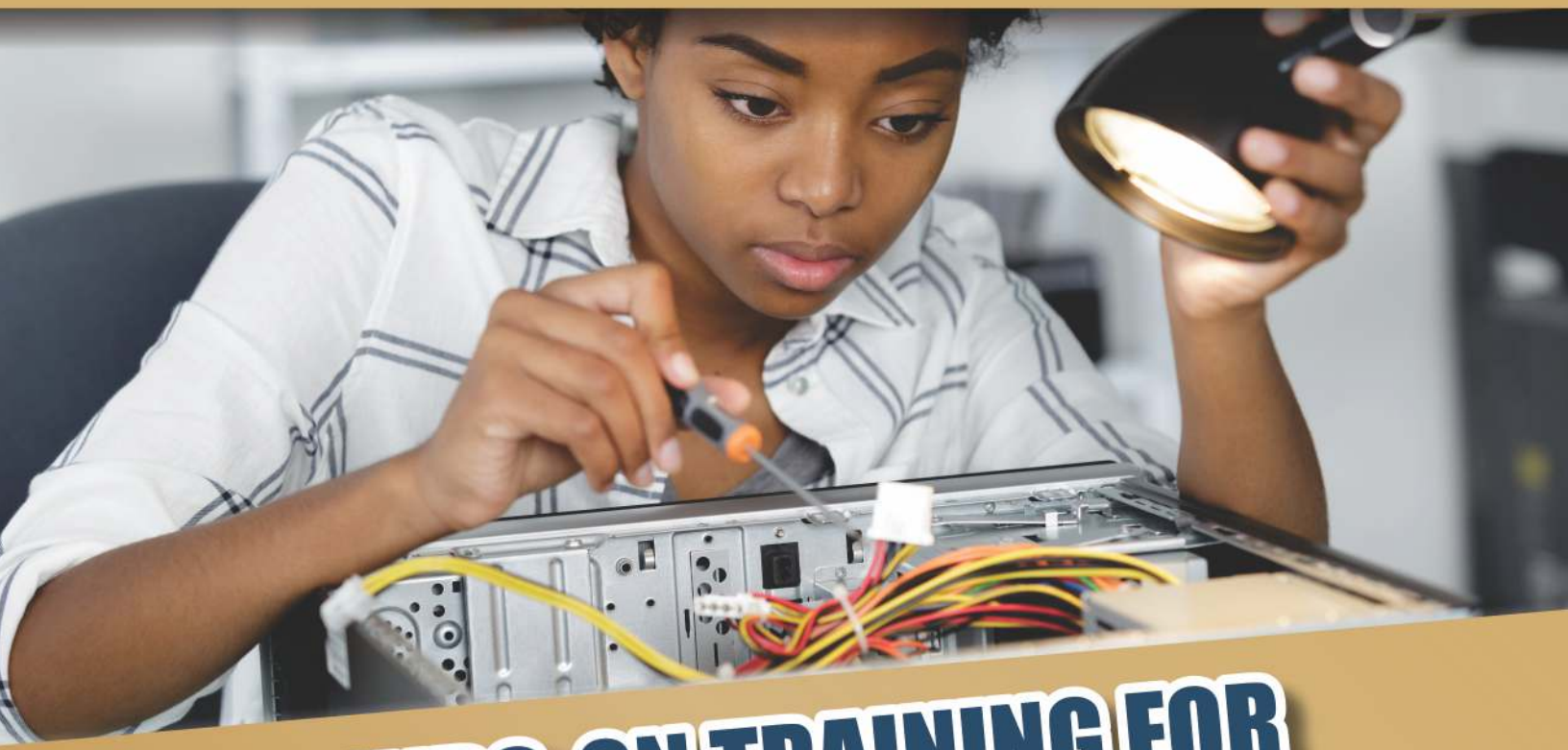
MARCRAFT

IT, CYBERSECURITY & MORE



HANDS-ON TRAINING FOR TOMORROW'S WORKFORCE!

www.marcraft.com 716.699.2031

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*Due to upgrades, actual product may differ from what is shown.

OUR COMMITMENT TO QUALITY EDUCATION

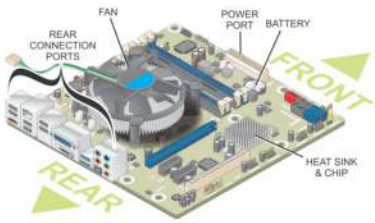
Marcraft's mission is to develop products and curriculum of exceptional quality for use in effectively teaching and training individuals in careers such as Cybersecurity & IT, Green Technologies, Smart Homes, Connectivity and more. These programs are tailored toward today's high-demand skill sets. Marcraft stands above the rest as the premier technical training provider specializing in hands-on, real-world inspired labs and practicums. Marcraft's approach to these subjects focuses on providing a comprehensive and integrated program tailored toward achieving the skills, knowledge, and certification necessary to begin and/or advance the career of choice.

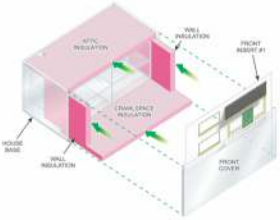
WHY CHOOSE MARCRAFT?

Marcraft has been providing technical training solutions for more than 40 years. Today, we focus on Cybersecurity & IT, Connectivity, and traditional Security System Installation training programs that excel in either a classroom or professional training environment. We engineer and design the training hardware, training software and courseware materials necessary for success in your school classroom, career/technical education facility, or professional training environments around the globe. Marcraft serves customers in all 50 states, the Canadian provinces and in more than 30 countries around the world.

FOR THE STUDENT

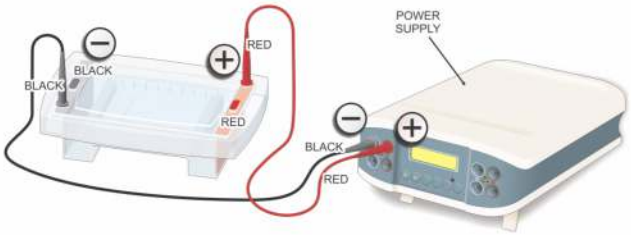
Providing just a textbook or online learning to teach different skills is an incomplete approach. Learning should be both cognitive and physical. Our programs consist of instruction for both theory and hands-on procedures using real equipment and software students will encounter in the field. All books are fully illustrated, and authored by experienced professionals in each discipline.





Nowhere else will students will receive this level experience and interaction in their chosen field.

- Hands-on, Industry-Inspired Lab Exercises
- Comprehensive and Illustrated Curriculum
- Test Prep for Industry Certification Exams
- Extensive Online Content
- Real-World Experience Used to Create Step-by-Step Paths to Certification



SkillsUSA

Marcraft is a proud supporter, contributor and judge at the National SkillsUSA Competition! We chair the national Cybersecurity competition.

WHY CHOOSE MARCRAFT?

FOR THE INSTRUCTOR

Marcraft programs include everything an instructor needs to successfully prepare students for careers in their chosen skill. These all-inclusive programs are customizable to each different learning environment. Each program includes outstanding instructor support and training, industry standard hardware and our elite curriculum to ensure student success rates stay high.

All of Marcraft's turn-key programs come with access to an instructor specific Online Learning Management System (LMS) complete with the proper curriculum, test banks, PowerPoints and gradebook features needed to teach the material to each select group of students.

Instructors can use the materials provided to assist students with their industry certification test preparations. Utilizing the LMS portal, instructors have access to study guides, reference material and even test banks which can be used to create customized practice tests specific to your students' needs.

- On-Site Instructor Training
- Online Classroom Management (LMS)
- 1-800 Tech Support
- Industry Certification Test Prep
- Industry Standard Hardware

Charles Brooks providing instructor training for the Cybersecurity Essentials Program at South Carolina State University

"Marcraft is a great company that has provided our students with skills in cyber defense that I feel are crucial for their success, internships, and jobs. Where else will you learn to hack a PLC? Where else do you learn to hack your own heart rate?"

GEORGE MEGHABGHAB
ROANE STATE COMMUNITY COLLEGE
OAK RIDGE, TENNESSEE

All courses come with PowerPoint presentations

Instructors training for the Industrial Network Cybersecurity Certification Program Whatcom College In Bellingham, Washington

WHY CHOOSE MARCRAFT?

FOR THE EMPLOYER

All Marcraft programs are created and built using industry standard hardware and software to ensure all hands-on activities match with real world expectations. This genuine training experience prepares students for potential career paths in their chosen skill by preparing them for both their industry standard certifications exams as well as their first day in the field.

"CTE is an investment in the future of our economy, our workforce and our country."

REPRESENTATIVE JAMES LANGEVIN

Desirable career certifications are at the heart of what Marcraft represents. With leading experts from both the educational and industrial communities, we have created instructional materials and certification practice exams in an effort to exhaustively prepare students for their future. In pursuit of the desired certification, students will gain not only the knowledge of theory that they will need to succeed, but also all of the hands-on skills that employers demand.

What is Career and Technical Education?

CTE is delivered at comprehensive and dedicated high schools, area technical centers, community colleges, technical colleges, and some 4-year universities. Students can earn industry certifications and licenses along with other degrees.

CTE is the answer to the nation's projected deficit of 6.5 million skilled workers in various fields.

"Students in postsecondary CTE programs are more likely to be employed within five years than those in an academic field of study."

CTEworks

INDUSTRY CERTIFICATONS

MARCRAFT PROGRAMS PREPARE STUDENTS FOR THESE CERTIFICATIONS:

CYBERSECURITY & IT

1. CompTIA Tech+
Marcraft Course: Fundamentals of IT

2. CompTIA A+ Certification
Marcraft Course: Maintaining and Repairing PC's

3. CompTIA Network+ Certification
Marcraft Course: Network+ Certification

4. AccessData Certified Examiner (ACE) Credential
Marcraft Course: Digital Forensics

5. ISACA Security Fundamentals Certificate
Marcraft Course: Cybersecurity Essentials

6. CompTIA Security+
Marcraft Course: Cybersecurity Essentials

7. Certified Pentester (CompTIA Pentest+)
Marcraft Course: Certified Pentester

8. ISC2 Certified Information Systems Security Practitioner (CISSP)
Marcraft Course: Advanced Enterprise Security

9. SANS Global Industrial Cyber Security Professional (GICSP)
Marcraft Course: Advanced Industrial Security

SMART HOME

1. Electronic Technicians Association (ETA) Basic Smart Technology Systems (STS)
Marcraft Course: STS Basic Certification Program

2. Electronic Technicians Association (ETA) STS Audio-Video Endorsement
Marcraft Course: STS Audio-Video Endorsement

3. Electronic Technicians Association (ETA) STS Security-Surveillance Endorsement
Marcraft Course: STS Security-Surveillance Endorsement

4. Electronic Technicians Association (ETA) STS Computer Networking Endorsement
Marcraft Course: STS Computer Networking Endorsement

5. Electronics Technicians Association (ETA) STS Environmental Controls Endorsement
Marcraft Course: STS Environmental Controls Endorsement

SPECIALTY PROGRAMS

1. Electronic Technicians Association (ETA): Certified Alarm Security Technician
Marcraft Course: Security & Surveillance Certification Program

2. Electronic Technicians Association (ETA): Fiber Optic Installer
Marcraft Course: Fiber Optic Installer Certification Program

3. Electronic Technicians Association (ETA) Data Cabling Installer
Marcraft Course: Low Voltage Wiring Certification Program

Please note, we provide programs that help prepare students for these certification examinations, not the certifications themselves.

WHY GET CERTIFIED?

THE ADVANTAGES OF INDUSTRY CERTIFICATION

#1 Demonstrates Proficiency
An industry certification verifies an individual possesses the knowledge and skills needed to thrive in the workforce. The standards assessed in a certification exam are established by industry leaders and are based on industry needs. Employers can be assured the individual has mastered the industry standards tested in the certification exam and are highly-qualified and well-trained employees.

#2 Leads to More Employment Opportunities
An industry certification can open doors when it comes to employment opportunities. Studies show individuals who earn industry certifications are more likely to be employed one year after earning a certification. Because those who earn industry certifications have a verified set of knowledge and skills, employers are more willing to hire them compared to someone without an industry certification. Comparatively, earning a certification can be a valuable asset to individuals who are looking to advance their career through promotions

#3 Increases Earning Potential
Because industry certification earners are more proficient and effective in their positions, they are more likely to earn higher salaries and pay increases than those without industry certifications.

#4 Offers Professional Development Opportunities
Some businesses and industries encourage employees to expand their knowledge and skills by offering professional development opportunities or requiring continuing education credits. Earning an industry certification is a way for a student or employee to strengthen their resume while becoming a more valuable asset to their company.

#5 Provides Job Security
While not all careers require a 4-year college degree, more than half of all jobs descriptions in the U.S. call for some form of post-secondary education. 53 percent of jobs are considered middle-skills positions. These positions require education beyond a high school diploma but less than a college degree. However, only 43 percent of individuals possess the necessary requirements to fill middle-skills positions. One way to meet the necessary educational and training requirements of a middle-skill position is by earning an industry certification. Researchers estimate by 2024, 48 percent of all job openings will be middle-skill positions.

#6 Offers Professional Credibility
Not only does an industry certification boost an individual's credibility with employers, it can also be a signal to coworkers and other professionals in the industry the certification earner is highly-qualified and possesses the necessary knowledge and skills needed to be an asset to the company. Individuals who possess professional credibility are more likely to be effective in their positions, find more enjoyment in their work and experience camaraderie with their coworkers and supervisors.

#7 Shows Commitment to Industry
An individual who earns an industry certification demonstrates his or her passion commitment to the industry. Earning an industry certification requires a significant investment of time and effort and indicates the individual is willing to put forth the necessary requirements to achieve success.

#8 Keeps Current with Industry Changes
Earning an industry certification guarantees the individual is up-to-date with current industry standards and practices, especially if the individual has been in the field in for a significant portion of their career. Remaining current is particularly important in industries where the technologies and methods change quickly.

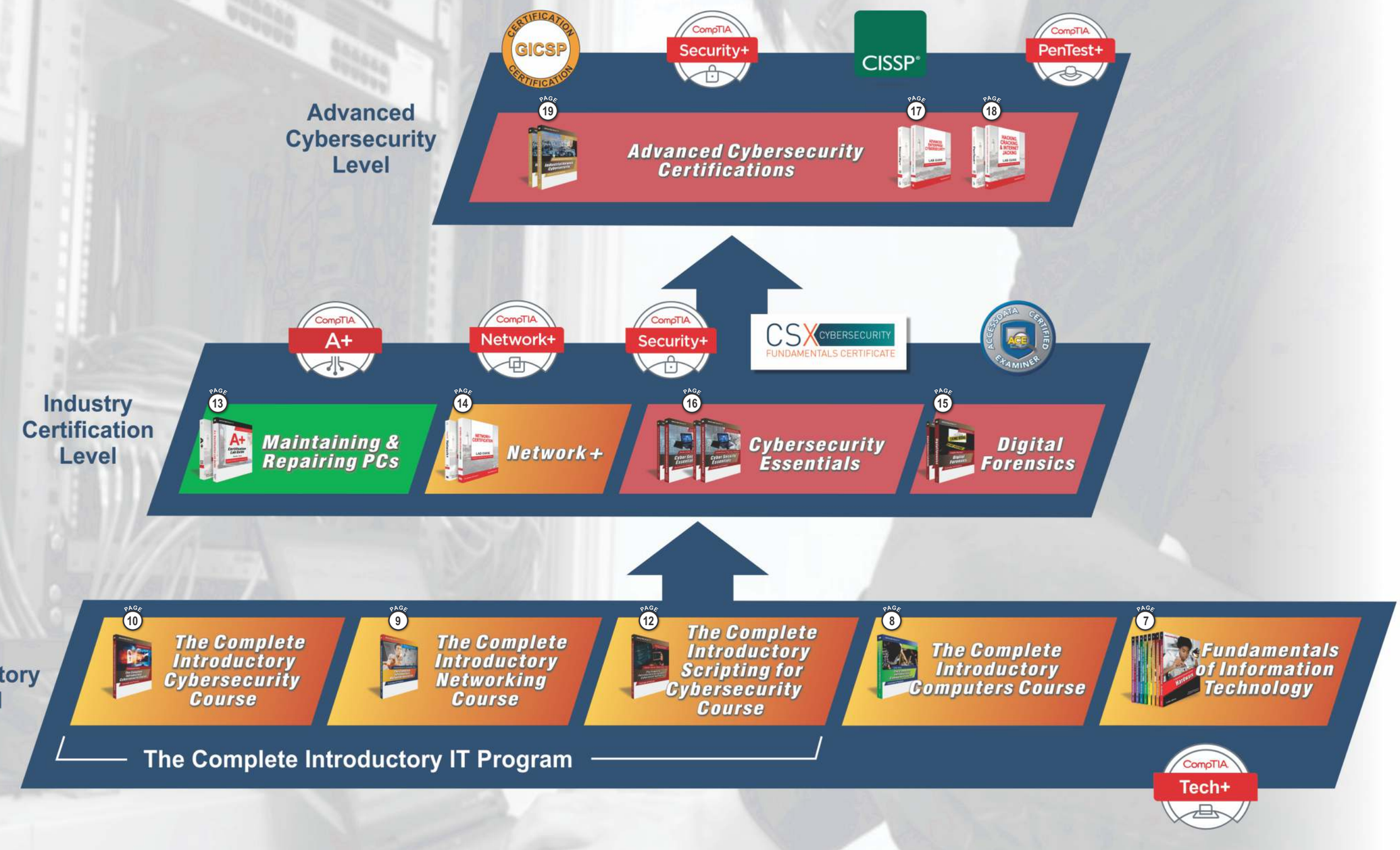
#9 Increases Employee Value
Regardless of an individual's career stage, listing an industry certification on a resume is a signal to potential employers the applicant has the necessary knowledge and skills needed to be an effective employee. On average, employers spend $1,252 and invest 33.5 hours to training a new employee. However, this investment does not ensure an employee will be fully productive after the 33.5 hours, and it takes an average of eight months for an employee to be fully, independently productive. Individuals who have earned an industry certification require less on-the-job training and become fully productive at a faster rate. When an employer hires an industry certification earner, they save their company valuable time and resources by employing an individual who already possesses the necessary qualifications and training.

#10 Expands Professional Network
When an individual earns a certification from a recognized industry leader, he or she is automatically connected to the certifying organization. Not only does this allow the individual to associate themselves with the certifying organization, but they also join the ranks of others who have earned the industry certification. This expands their professional network, connecting them to thousands of individuals who share their knowledge, skills and passion for the industry.

NOTE: Industry certifications have much more validity and value when they are created and accepted by potential employers as "industry-standard". For example, if you conduct an Internet search on Indeed.com or other job search web sites with the certification name (ie. CompTIA Security+, Cisco CCNA, or ASE), you will find employers specifically asking for them.

Other certifications or certificates, many times proprietary in nature ("for us by us"), have been created by testing companies or curriculum companies as a way to sell tests or books. These do not provide much benefit to the student in terms of their marketability to an employer.

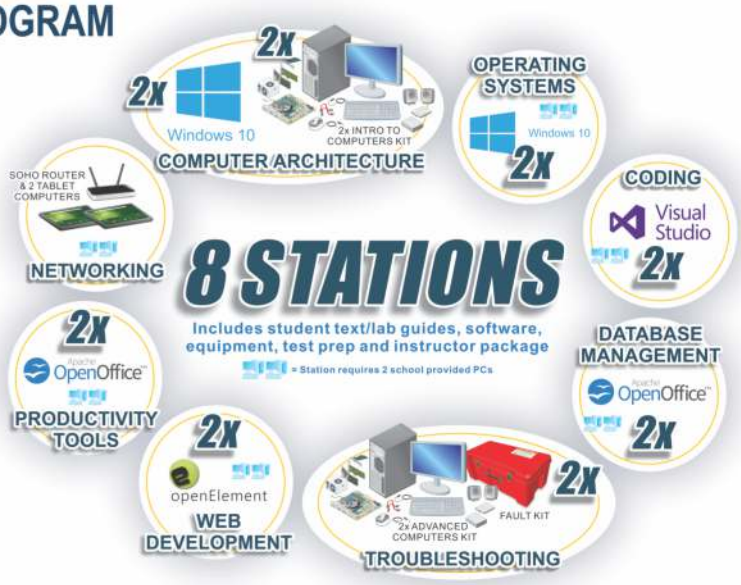
IT & CYBERSECURITY PROGRESSION



FUNDAMENTALS OF INFORMATION TECHNOLOGY CERTIFICATION PROGRAM

MC-1100

The Fundamentals of Information Technology Certification Program covers a wide range computer related topics written for students with little to no computing experience. The program covers everything from building, operating, networking, securing, and troubleshooting a computer. This course prepares students for the Tech+ certification and exam offered by CompTIA.



CERTIFICATIONS

CompTIA Tech+ Certification

Not Just a Simulation! Hands-on Labs Use the Following Equipment:

- Motherboards
- CPUs
- RAM Memory Modules
- Hard Drives
- Optical Drives
- Video, Sound & Networking Cards
- Keyboards & Mice
- Wireless Home Routers
- Tablet Computers
- Faulty RAM, Cables, Expansion Cards & Other Components

The Marcraft Fundamentals of IT Certification Course covers these topics:

- Computer Components
- Building a PC
- Operating Systems
- BIOS & UEFI
- Operating the Windows OS
- Computer Security
- Types of Software
- Word Processors
- Spreadsheets
- Presentation Software
- Databases
- Computer Networking
- Networking Hardware & Protocols
- Network Security
- The Internet
- HTML, CSS, & Website Design
- Troubleshooting

AND MUCH MORE!

Real World Hands-on Labs!

INCLUDES:

MC-1100	Fundamentals of Information Technology Package for 24 Students Working in Pairs (Requires 12 PC Workstation Computers)
MC-110IG	Instructor's Guide with PowerPoint Presentation Media (1 Per Classroom)

ACCESSORIES:

MC-110SET	Fundamentals of Information Technology Text/Lab Guides (Set of 8 books)

INTRODUCTION TO COMPUTERS
MC-2300

The Complete Introductory Computer Course has been designed to give students a hands-on exploration of computers, how they work, what they can do, and how to keep them running. The course removes the aura of mystery surrounding the personal computer, giving the knowledge and confidence needed to use and maintain a computer.

Not Just a Simulation! Hands-on Labs Use the Following Equipment:

- Motherboards
- CPUs
- RAM Memory Modules
- Hard Drives
- Optical Drives
- Video, Sound & Networking Cards
- Keyboards & Mice
- Faulty RAM, Cables, Expansion Cards & Other Components

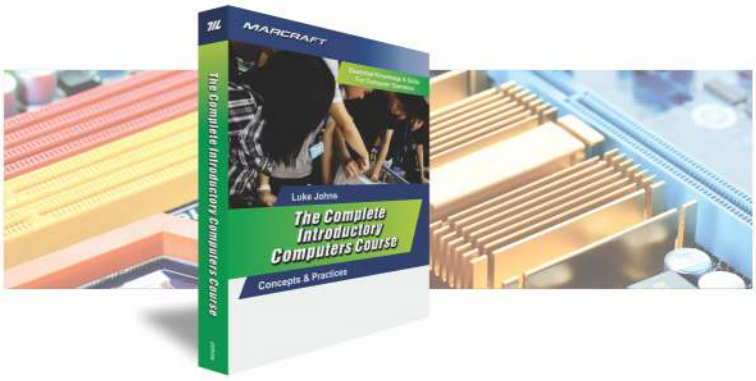
The Marcraft Introduction to Computers Program covers these topics:

- Computer Components
- Building a PC
- Operating Systems
- BIOS & UEFI
- Operating the Windows OS
- Computer Security
- Types of Software
- Word Processors
- Spreadsheets
- Presentation Software
- Databases
- Troubleshooting

AND MUCH MORE!

INCLUDES:

MC-2300	Complete Introductory Computer Course with 1 Student Built PC
IC-520	1 Universal Engineered Hardware/Software Fault Set
MC-230IG	Instructor's Guide with PowerPoint Presentation Media (1 Per Classroom)



ACCESSORIES:

MC-230	Complete Introductory Computers Course Text/Lab Guide

INTRODUCTION TO NETWORKING
MC-2400

The Complete Introductory Networking Course is a great introduction to the world of computer networking. This introductory course will outline how computers exchange data and share resources, what communication protocols are and the systems of rules that govern computer networks worldwide.

Not Just a Simulation! Hands-on Labs Use the Following Equipment:

- SOHO AP/Routers
- Cable Stripper & Crimpers
- Ethernet Connectors
- Network Interface Controllers
- Cable Testers

The Marcraft Complete Introductory Networking Course covers these topics:

- Interfaces
- Cabling
- Network Types
- Topologies
- Protocols
- Network Devices
- Cable Testers
- Network Administration
- Network Backup Strategies
- Troubleshooting
- **AND MUCH MORE!**

INCLUDES:

MC-2400	The Complete Introductory Networking Course for 24 Students Working in Pairs (Requires PC Workstation Computers)
MC-240IG	Instructor's Guide with PowerPoint Presentation Media (1 Per Classroom)

ACCESSORIES:

MC-240	The Complete Introductory Networking Course Text/Lab Guide

INTRODUCTION TO CYBERSECURITY

MC-2500

The Complete Introductory Cybersecurity Course presents the basic theories and best practices for securing computing devices and networks. Students will learn through the combination of Theory and Lab Practices about Security Layers, Operating System Security, Network Security, Security Software and Cybersecurity.

Real World Hands-on Labs!

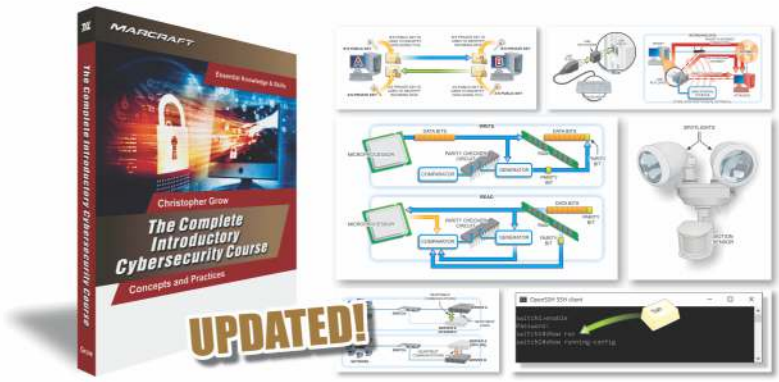
Not Just a Simulation! Hands-on Labs Use the Following Equipment:

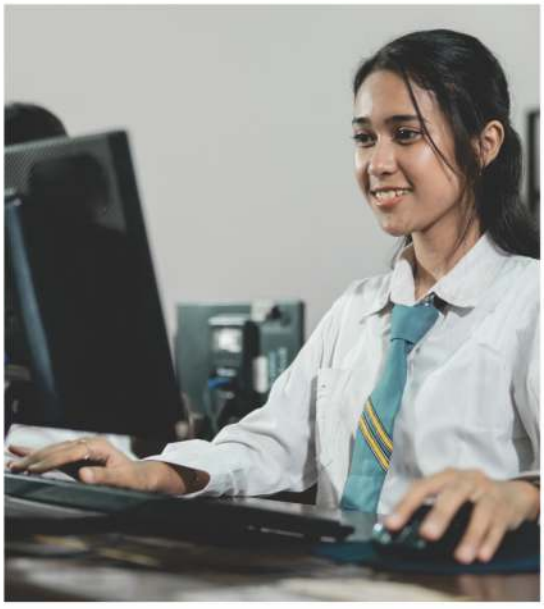
- Wireless AP/Routers
- Managed Switches

The Marcraft Complete Introductory Cybersecurity Course covers these topics:

- Access Control
- Attack Surfaces
- Social Engineering Threats
- Physical Security
- Computer Security
- OS Security
- Authentication
- Encryption
- Protocol Security
- Client, Server, & Email Security
- **AND MUCH MORE!**

INCLUDES:	
MC-2500	The Complete Introductory Cybersecurity Equipment Package for 24 Students Working in Pairs (Requires Dedicated PC Workstation Computers)
MC-250IG	Instructor's Guide with PowerPoint Presentation Media (1 Per Classroom)





ACCESSORIES:	
MC-250	The Complete Introductory Cybersecurity Course Text/Lab Guide

INTRODUCTION TO NETWORKING & CYBERSECURITY COMBO

MC-3500COM

Combines both the Introduction to Networking Course and Introduction to Cybersecurity Course into one package.

Not Just a Simulation! Hands-on Labs Use the Following Equipment:

- Wireless AP/Routers
- Cable Stripper & Crimpers
- Ethernet Connectors
- Network Interface Controllers
- Cable Testers
- Managed Switches

The Marcraft Complete Introductory Networking Course covers these topics:

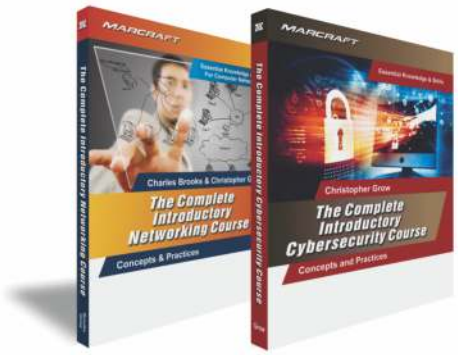
- Interfaces
- Cabling
- Network Types
- Topologies
- Protocols
- Network Devices
- Cable Testers
- Network Administration
- Network Backup Strategies
- Troubleshooting
- **AND MUCH MORE!**

The Marcraft Complete Introductory Cybersecurity Course covers these topics:

- Access Control
- Attack Surfaces
- Social Engineering Threats
- Physical Security
- Computer Security
- OS Security
- Authentication
- Encryption
- Protocol Security
- Client, Server, & Email Security
- **AND MUCH MORE!**

INCLUDES:

MC-2400	Complete Introductory Networking Course for 24 Students Working in Pairs (Requires PC Workstation Computers)
MC-240IG	Instructor's Guide with PowerPoint Presentation Media (1 Per Classroom)
MC-2500	Complete Introductory Cybersecurity Equipment Package for 24 Students Working in Pairs (Requires Dedicated PC Workstation Computers)
MC-250IG	Instructor's Guide with PowerPoint Presentation Media (1 Per Classroom)



ACCESSORIES:

MC-240	Complete Introductory Networking Course Text/Lab Guide
MC-250	Complete Introductory Cybersecurity Course Text/Lab Guide

INTRODUCTION TO SCRIPTING FOR CYBERSECURITY

MC-2600

Coding is the heart of cybersecurity. It is important that cybersecurity personnel in various job roles understand programming tools so that they can decipher the overall strategies, tactics and goals of attackers. In addition, they often use scripting languages to create programs that will carry out specific or repetitive cyber operations. Four of the most widely used scripting languages include – Python, Powershell, Bash and Ruby.

Some of the most common cybersecurity-related job roles and their relationships with coding include: Penetration testers, Incident responders, and Cyber System Analysts.

This course introduces the student to these scripting languages and leads them to develop applications to perform cybersecurity-related activities.

Not Just a Simulation! Hands-on Labs Use the Following Scripting Languages:

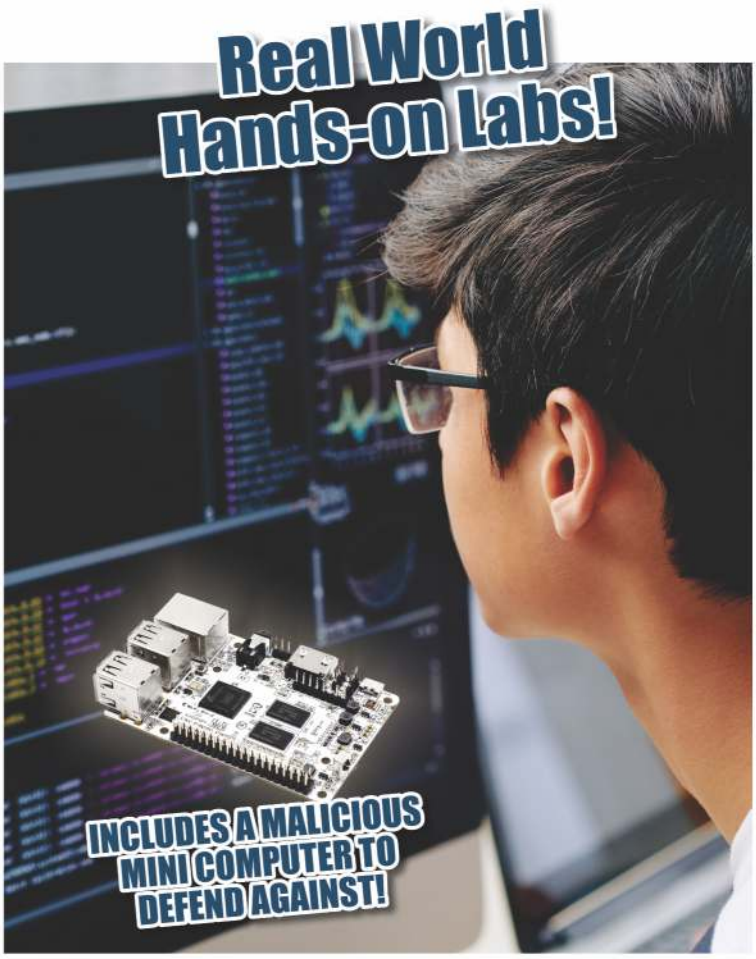
- Python
- Ruby
- PowerShell
- Bash

Students will use the provided Single Board Computer (SBC) as an endpoint to test and use networking scripts. The board will be directly networked to the student laptop, so students can write scripts that craft and send packets to the board while monitoring the network traffic to confirm that the scripts work as intended.

The Marcraft Introduction to Scripting for Cybersecurity Course covers these topics:

- Differences Between Structured Programming and Coding (using Scripting Languages)
- Basic Commands of Ruby, Python, Bash, and PowerShell
- Command Line Structures for Each Language
- Applications to Automating Cybersecurity-Related Operations

AND MUCH MORE!



INCLUDES:	
MC-2600	The Complete Introductory Scripting for Cybersecurity Package for 24 Students Working in Pairs (Requires PC Workstation Computers)
MC-260IG	Instructor's Guide with PowerPoint Presentation USB Drive (1 Per Classroom)

ACCESSORIES:	
MC-260	The Complete Introductory Scripting for Cybersecurity Text/Lab Guide

MAINTAINING AND REPAIRING PCS CERTIFICATION PROGRAM

MC-9000

The Marcraft Maintaining and Repairing PCs program was designed specifically in support of the CompTIA A+ certification. Through an unmatched combination of world class text theory and hands-on lab exercises based around the industry standard hardware provided, students will learn and master skills in Operating Systems, Hardware, Networking, Security, Virtualization, Cloud Computing, Operational Procedures, Troubleshooting, and Mobile Devices.

CERTIFICATIONS

CompTIA A+ Core 1
CompTIA A+ Core 2

Not Just a Simulation! Hands-on Labs Use the Following Equipment:

- Motherboards & CPUs
- RAM Memory Modules
- Hard Drives
- Optical Drives
- Video, Sound & Networking Cards

The Marcraft A+ Certification Course covers these topics:

- Computer Hardware
- Networking Fundamentals
- Installing Wireless and SOHO Networks
- Security Concepts
- Securing Operating Systems
- Troubleshooting Network & Hardware Problems
- Windows 10 Operating System
- macOS & Linux Operating Systems
- Network Services
- Virtualization
- Cloud Computing

AND MUCH MORE!

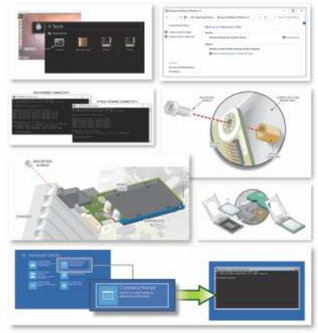
Real World Hands-on Labs!

"The average salary for a technology professional in the United States increased to $111,193 in 2023, up from $108,857 in 2021."

DICE 2024 TECH SALARY REPORT

INCLUDES:	
MC-9000	1 Maintaining & Repairing PCs Trainer
IC-520	1 Universal Engineered Hardware/Software Fault Set
MC-900IG	Instructor's Guide Package with Technician Level Diagnostic Software (1 Per Classroom)

CompTIA's A+ certification is widely recognized as the industry standard for any individual interested in pursuing a career in IT. A+ Certified professionals support today's core technologies from security to networking to virtualization and more. These individuals are trusted by employers around the world to identify the go-to person in end point management & technical support roles. In addition, A+ is the only industry-recognized credential with performance-based items to prove that certified professionals can think and perform critical IT support tasks in fast-paced environments. Employers also recognize the A+ certification as a mark of a committed and dedicated IT professional who is willing to invest time and effort into acquiring new skills and knowledge. Unquestionably, the certification can lead to higher salaries and career advancement opportunities for IT professionals.



ACCESSORIES:	
MC-900SET	A+ Certification Text and Lab Guide

NETWORK+ CERTIFICATION PROGRAM
MC-4000, 4001, & 4002

The Marcraft Network+ program relies heavily on the Network+ Certification framework from CompTIA to ensure students are guaranteed a full-scale, comprehensive hands-on learning experience unlike any other available. Students can expect to study the configuration, management, and troubleshooting of common wired and wireless network devices. Additional focus on areas such as critical security concepts, key cloud computing practices alongside virtualization techniques and concepts to give individuals the combination of theory knowledge and hands-on skills to keep a network resilient.

CERTIFICATIONS

CompTIA Network+ Certification

Not Just a Simulation! Hands-on Labs Use the Following Equipment:

- Servers, Enterprise Routers & Switches
- Patch Panels
- Wireless AP/Routers
- Ethernet Cable & Terminations
- Cable Strippers & Crimpers
- 110-Type & 66-Type Connection Blocks
- Punchdown Tools
- Cable Testers

The Marcraft Network+ Certification Course covers these topics:

- Design and implement functional network
- Configure and manage essential network devices
- Identify benefits and drawbacks of existing networks
- Troubleshoot network problems
- Support the creation of virtualized networks
- Implement network security, standards, and protocols
- Use switches and routers to segment network traffic and create resilient networks

AND MUCH MORE!

TAILORED TO YOUR CLASS SIZE!

THE MC-4000 PACKAGE INCLUDES: 6 STUDENTS

MC-4000	Networking Technology Equipment Package for 6 Student Access
MC-400IG	Each package comes with 1 Instructor's Guide and PowerPoint Presentation Media (1 Per Classroom)

THE MC-4001 PACKAGE INCLUDES: 12 STUDENTS

MC-4001	Networking Technology Equipment Package for 12 Student Access
MC-400IG	Each package comes with 1 Instructor's Guide and PowerPoint Presentation Media (1 Per Classroom)

THE MC-4002 PACKAGE INCLUDES: 24 STUDENTS

MC-4002	Networking Technology Equipment Package for 24 Student Access
MC-400IG	Each package comes with 1 Instructor's Guide and PowerPoint Presentation Media (1 Per Classroom)

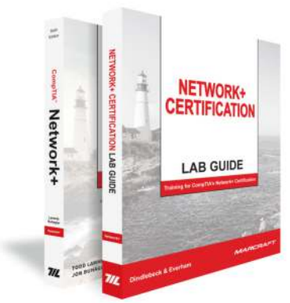
*NOTE: All Packages Require PC Workstation Computers

"The networking sector of IT has proven to be surprisingly resilient. While other hardware-dominated sectors have faltered, networking has held its own. It still boasts a sizable and dedicated community."

DATAMATION.COM

Individuals who complete the Network+ program from Marcraft can prepare for a career in IT infrastructure where they can confidently handle the responsibilities of troubleshooting, configuring and managing networks.

Network+ certified individuals will be able to confidently describe the features and functions of networking components and install, configure and troubleshoot the basic networking hardware, protocols and services that business and organizations rely on everyday. Unlike other vendor-specific networking courses, the Network+ program from Marcraft prepares you to support the network regardless of the platform. It forms the foundation students need before choosing to specialize in a vendor solution. Lastly, certified professionals can demonstrate a proficient understanding of emerging technologies, including cloud and virtualization techniques and practices.



MC-400TC
Table-Top Router & Switch Chassis

ACCESSORIES:

MC-400SET	Network+ Text and Lab Guide
MC-400SC	Server Computer (Optional)
MC-400TC	Table-Top Router & Switch Chassis

DIGITAL FORENSICS CERTIFICATION PROGRAM

DF-1000

Computer forensic examiners use specialized tools and practices to locate and retrieve information from computers and other digital devices that store data to determine where and how possible crimes or data breaches have occurred. They must be able to perform investigative field work at a potential crime location, secure evidence and establish chain of custody links to move evidence to a lab setting for analysis, conduct lab analysis operations and potentially present documented evidence in a legal setting.

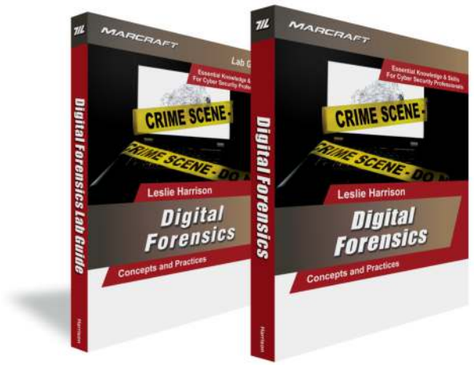
The Marcraft Digital Forensic equipment package includes a suspect computer and peripherals, which hold various types of evidence, a forensic notebook PC with various types of forensic software and a host of additional hardware tools for carrying out the investigation and documenting the evidence.

In the Marcraft Digital Forensics course, students will work through an actual criminal case by using forensics software and hardware tools to solve the crime. Working through 12 chapters, students will investigate a crime scene, bring the evidence back into their lab to find, extract and analyze the information while creating a "chain of custody" to ensure the findings are admissible in a court of law.

Real World Hands-on Labs!

"By 2025, the digital forensics market is projected to be worth $6.48 billion. For those who are adept at using computers, comfortable in cyberspace and passionate about criminal justice, the digital forensics field may be promising"

MORDOR INTELLIGENCE



ACCESSORIES:

DF-100SET	Digital Forensics Text and Lab Guide

CERTIFICATIONS

AccessData Certified Examiner Certification

The Marcraft Digital Forensics Certification Course covers these topics:

- Basics of Digital Forensics
- Investigative Procedures
- Data Storage
- Storage Media & Hardware Devices
- Forensics Tools
- Steganography & Multimedia Evidence
- Data Acquisition & Analysis
- Mobile Device Forensics
- Network Forensics
- Online Investigations & Email
- Preparing to Testify

AND MUCH MORE!

INCLUDES:

DF-1000	Digital Forensics Equipment Package (1 Station)
DF-100IG	Instructor's Guide Package with Forensic Write Blocker (1 Per Classroom)

CYBERSECURITY ESSENTIALS
CS-1000

Based on the National Institute of Standards (NIST) framework, Marcraft's capstone program covers all aspects contained within the Cybersecurity space. Beginning with Physical Asset Protection and finishing with Penetration Testing, this 8-station Cybersecurity Essentials program is a necessary stepping stone to any and all individuals interested in careers within the Cybersecurity ecosystem.

Marcraft's hands-on approach is highlighted in the 8 stations that allow the concepts and practices presented in theory to be tested, analyzed and confirmed in real time, using industry standard hardware and software.

CERTIFICATIONS

ISACA Cybersecurity Fundamentals Certificate Exam

CompTIA Security+ Certification

Not Just a Simulation! Hands-on Labs Use the Following Equipment:

- Security Controllers
- Security & Fire Sensors
- Surveillance Cameras & DVRs
- Servers, Switches, Routers & Firewalls
- IoT Devices
- PLC and SCADA
- Virtualization Systems
- Multiple Operating Systems

The Marcraft Cybersecurity Essentials Certification Course covers these topics:

- Infrastructure Security
- Surveillance Systems
- Local Host Security
- Local Network Security
- Internet Security
- Edge Protection
- Enterprise Network Security
- Industrial Cybersecurity Systems
- Medical Network Security
- Penetration Testing

AND MUCH MORE!

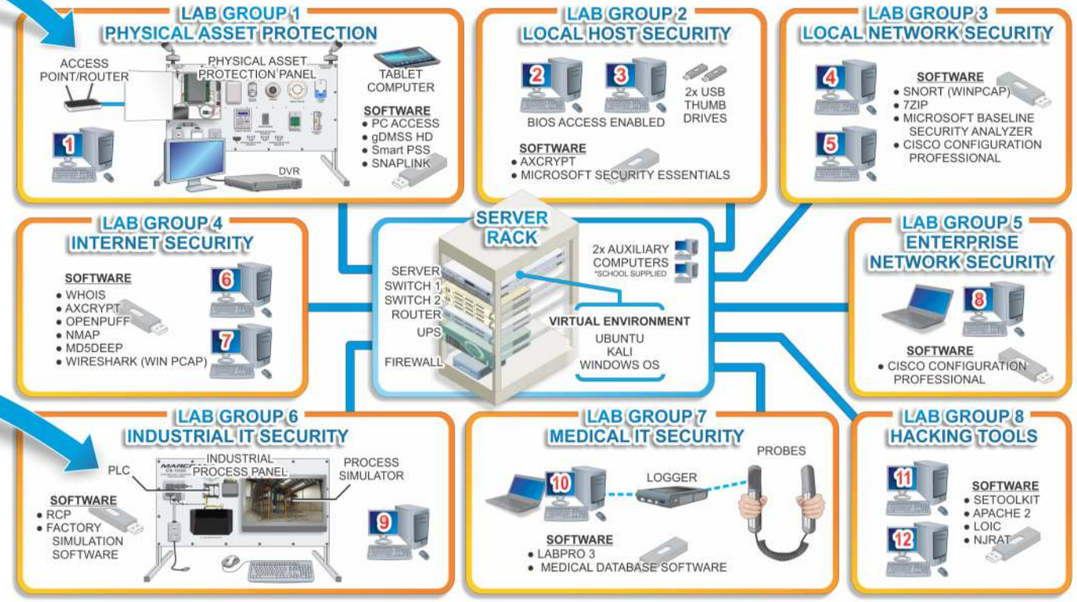
INCLUDES:

CS-1010	Physical Asset Protection Panel
CS-1020	Rack Mount Server Package
CS-1030	Cybersecurity Industrial Process Panel
CS-1040	Medical IT (IoT) Package
CS-100IG	Instructor's Guides with PowerPoint Presentation USB Drive (1 Per Classroom, 2 book set)

*Requires 14 dedicated workstation computers

"Employment of information security analysts is projected to grow 35 percent from 2021 to 2031, much faster than the average for all occupations."

U.S. BUREAU OF LABOR STATISTICS

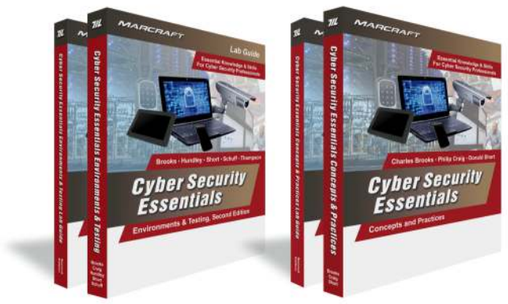


PACKAGE ACCOMMODATES 24 STUDENTS, EXPANDABLE

"The average cost of insider-related cyber incidents was $7.68 million, and 60% of companies go out of business six months after a security breach."

ASHRAE JOURNAL NEWSLETTER, SEPTEMBER 14, 2021

THE ADVANCED CYBERSECURITY COURSES CAN BE EASILY ADDED TO THIS COURSE



ACCESSORIES:

CS-100SET	Cybersecurity Essentials Concepts and Practices Text & Lab Guide & Cybersecurity Essentials Environments and Testing Text & Lab Guide (4 books total)

ADVANCED CYBERSECURITY CERTIFICATIONS

For students who want to advance in an IT career, they need a solid understanding of computer and network security. Adding security certifications to their portfolio opens doors for employment opportunities and a higher salary. These days, even entry level positions are requiring some background in cybersecurity. Organizations are finding that putting more emphasis on security skills for IT professionals makes financial sense when compared to the repercussions of a data breach.

ALSO AVAILABLE AS ADD-ONS TO THE CS-1000 CYBERSECURITY ESSENTIALS COURSE

ADVANCED ENTERPRISE CYBERSECURITY

ADVANCED CYBERSECURITY
CS-2000

The Advanced Enterprise Cybersecurity Course prepares students for network administration and security positions in small, medium and enterprise sized networks.

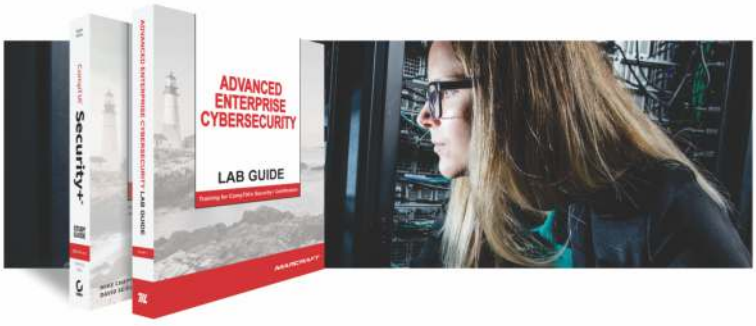
Students will acquire the knowledge and skills required to install and configure systems to secure applications, networks, and devices. They will perform threat analysis and respond with appropriate risk mitigation techniques and activities.

In addition, they will work with network security policies, perform risk assessments, and examine incident response plans.

INCLUDES:

CS-2000	Enterprise Network Security Equipment Package for 24 Students (Requires Dedicated PC Workstation Computers)
CS-200IG	Instructor's Guide with PowerPoint Presentation USB Drive (1 Per Classroom)

*Requires 12 PC workstation computers



CERTIFICATIONS

CompTIA Security+ Certification

Certified Information Systems Security Professional

ACCESSORIES:

CS-200SET Enterprise Network Security Text & Lab Guide

CERTIFIED PENTESTER

ADVANCED CYBERSECURITY
CS-5000

The Marcraft Certified Pentester Course provides students with the knowledge and skills required to perform remote and local reconnaissance operations that probe targeted networks for available attack surfaces. They will also be introduced to tools and techniques for creating exploits, delivering the exploit to the target from different locations (across the internet, from close proximity to the target, from inside the target, and inside the network) and establishing command and control after the initial exploit.

The students will be introduced to advanced hacking techniques and tools to build on their existing networking and security knowledge.

Penetration testing also requires a good understanding of the law to keep all activities legal and in accordance with any legally binding contracts or agreements.

CERTIFICATIONS

CompTIA PenTest+ — **CompTIA Pentest+ Certification**

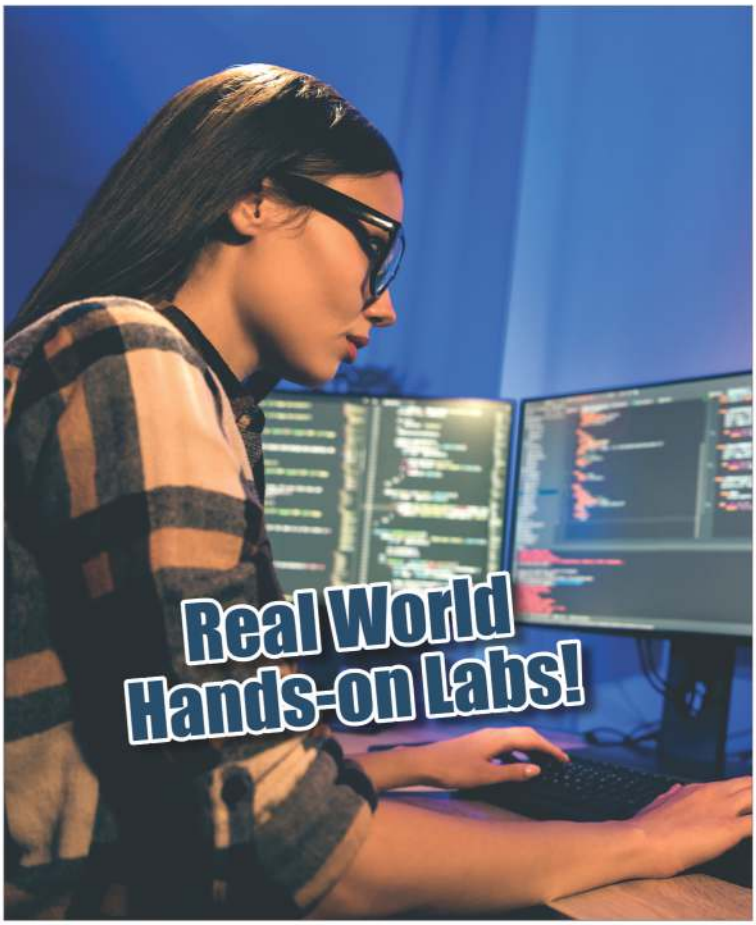
Not Just a Simulation! Hands-on Labs Use the Following Equipment:

- USB Rubber Ducky
- WiFi Pineapple
- WiFi Adapters with Promiscuous Mode
- WiFi Sniffer
- Bluetooth Sniffer
- Ethernet Tap

The Marcraft Certified Pentester Course covers these topics:

- Target Validation & Fingerprinting
- SQL Injection & Cross-Site Scripting
- Attacking the Edge & Web Servers
- Social Engineering
- Rogue Access Points & Evil Twins
- Rubber Ducky Attacks
- Network Mapping, Enumeration & Vulnerability Scanning
- Brute Force Attack & Password Cracking
- Man-in-the-Middle Attacks
- Installing Backdoors
- Session Hijacking
- Flood Attacks & Other Denial-of-Service Attacks

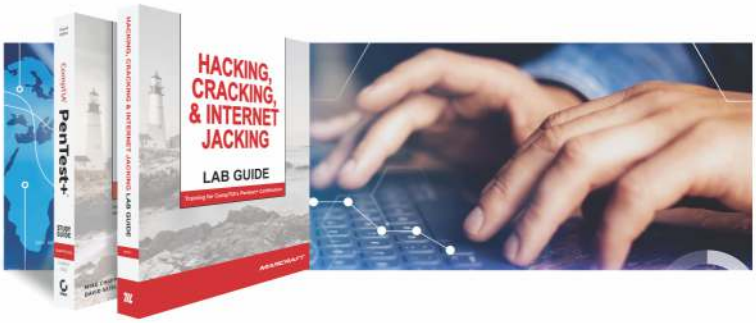
AND MUCH MORE!



INCLUDES:

CS-5000	Certified Pentester Equipment Package for 24 Students (Requires Dedicated PC Workstation Computers)
CS-500IG	Instructor's Guide with PowerPoint Presentation USB Drive (1 Per Classroom)

*Requires 12 PC workstation computers



ACCESSORIES:

CS-500SET	Certified Pentester Text & Lab Guide

INDUSTRIAL NETWORKS CYBERSECURITY
ADVANCED CYBERSECURITY
CS-3000

The Industrial Control Systems (ICS) and Operational Technology (OT) network security environment is built on devices, protocols, connectivity specifications and requirements that do not exist in the SOHO or Enterprise network environments.

In the Marcraft Industrial Networks Cybersecurity Course students will be introduced to ICS embedded devices including PLCs, RTUs and IEDs. Students will also become acquainted with industrial network protocols including - Modbus, DNP3, BacNet, etc. Other key topics include ICS/Utility network communication methods and the real-time IAC tenets associated with these networks.

CERTIFICATIONS

SANS Institute GICSP Certification

Not Just a Simulation! Hands-on Labs Use the Following Equipment:

- PLCs
- HMI & SCADA Systems
- Data Historians
- Pentesting Software
- Servers, Enterprise Routers, and Switches
- Firewall Appliances

The Marcraft Industrial Network Cybersecurity Certification Course covers these topics:

- Global Security Standards, Practices, & Regulations
- Open & Closed Loop Control Systems
- Dedicated & Distributed Control Systems
- Industrial Sensors
- Final Control Elements/Actuators
- Industrial Process Controllers
- Field Devices & Industrial Networks
- SCADA
- Common Industrial Network Structures
- Industrial Network Communication Media
- Asynchronous Serial Standards
- Remote Access Communication Media
- Industrial Network Protocols
- Utility Collection & Control Networks
- Customer Data Management Systems
- Industrial and Utility Network Security
- Boundary Protection
- Wide Area Network Security
- ICS Risk Assessments

AND MUCH MORE!

Real World Hands-on Labs!

ALSO AVAILABLE AS AN ADD-ON TO THE CS-1000 CYBERSECURITY ESSENTIALS COURSE

Manufacturing is #1 in Cyber Attacks for the Third Straight Year. What Can Be Done?

A 2024 IBM study found that 85% of incidents could have been mitigated with patching, multi-factor authentication or least-privilege principles.

LAB ACTIVITIES

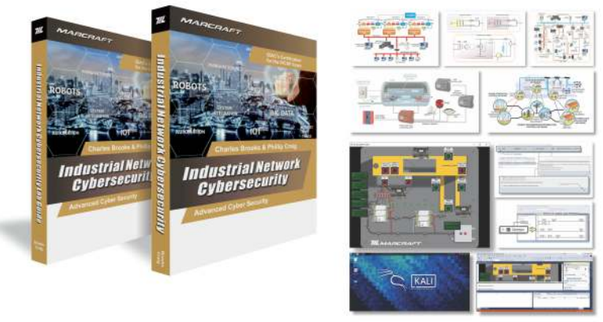
Basic ICS Networking
- Introduction to PLCs, SCADA, and HMI Systems
- Stand-Alone and Multiple Zone PLC Control
- SCADA/HMI Systems
- Data Historian Servers

IT/OT Vulnerabilities
- Exploiting OT Network Vulnerabilities
- Physical MitM Attacks
- IT/OT Reconnaissance
- Exploiting IT/OT Network Vulnerabilities

Cyber Vulnerabilities
- Attacking the Front Door and an Outward Facing Web Server
- Spear Phishing Attacks
- Installing a Reverse Shell and Exploiting Hashes
- Wireless Perimeter Attacks and WiFi Exploits

Defending the OT Network
- End Point Hardening and DoD Secure Host Compliance
- Network Switch Security
- IT/OT Network Segmentation, VLANs, and Security Routing
- Working with Firewalls and DMZs

Incident Response and Handling
- Incident Response Handling
- Security Logging and Auditing
- Disaster Recovery (Backup and Restore)



INCLUDES:

CS-3000	Industrial Security System Equipment Package which includes 1 Industrial & Utility Cybersecurity Trainer (Requires Dedicated PC Workstation Computers)
CS-300IG	Instructors Guide with PowerPoint Presentation USB Drive (1 Per Classroom)

ACCESSORIES:

CS-300SET	Industrial Security System Text & Lab Book

"In today's interconnected world, ICS and Operational Technology (OT) cybersecurity has become a critical area of focus. As industries increasingly rely on digital systems to control physical processes, the need to secure these systems has never been more important. OT cybersecurity involves protecting critical infrastructure like power grids, manufacturing plants, and transportation systems from cyber threats. However, hiring skilled professionals in this niche field poses significant challenges. *OT cybersecurity isn't just about IT security; it requires a blend of engineering and security skills.* This specialized skill set makes these professionals unique and in high demand."

SURESH PATEL, A SENIOR CYBERSECURITY ANALYST IN INDUSTRIAL CYBERSECURITY

TERRA
RA-TERRA

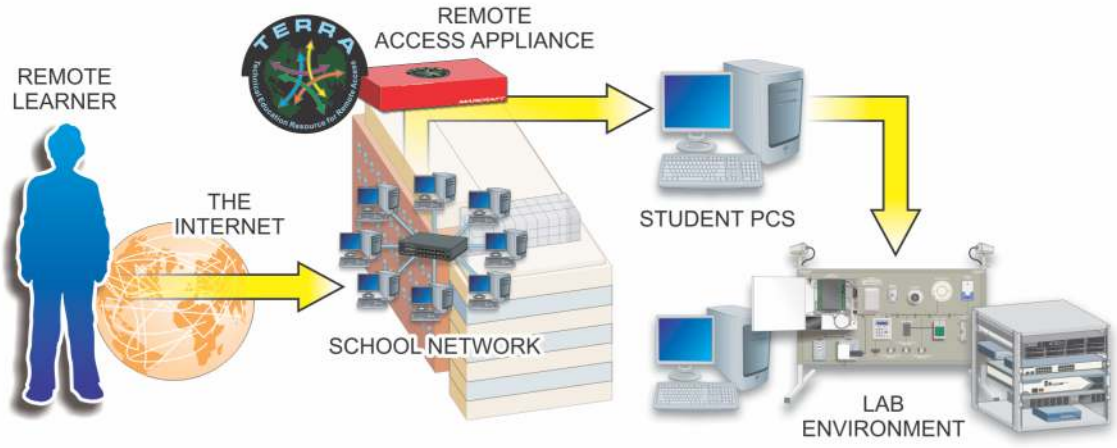
Is remote learning impacting hands-on lab access? Connect our TERRA Remote Access Appliance to your lab network to add hands-on activities to your remote learning environment. Each TERRA unit is custom programmed for your organization to work with your Marcraft training courses.

*Not applicable to the DF-1000, MC-2300, & MC-9000

INCLUDES:

RA-TERRA TERRA Remote Access Appliance, including Custom Programming & Documentation

Remote, Hybrid, or In-Class, Our Hands-On Labs Can Work For You!



STS BASIC CERTIFICATION PROGRAM

STS-1000

Teach students to install and interconnect residential electronic communications, computer, control and entertainment equipment. These expert training systems are the perfect addition to existing construction or electronics program.

Smart Technology Systems (STS) is a professional certification for those who design and oversee the installation and integration of electronics systems in residences and light commercial buildings. In a modern integrated environment, these system are associated with the facility's SOHO networks – both wired and wireless.

CERTIFICATIONS:

ETA Basic Smart Technology Systems

Not Just a Simulation! Hands-on Labs Use the Following Equipment:

- Integration Controllers
- Distribution Boards
- Power Injectors & IR Repeaters
- Phone Line Simulators
- Coaxial Splitters
- 110-Type & 66-Type Connection Blocks
- Cable Testers
- Home Routers

AND MUCH MORE!

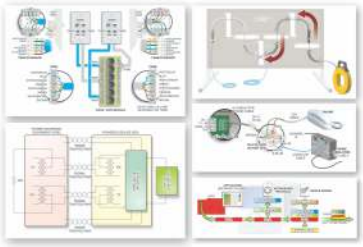
The Marcraft STS Basic Certification Course covers these topics:

- Protective Gear & Protection
- Safe Tool and Equipment Use
- OSHA Regulations
- Basic First Aid & CPR
- Meters, Circuit Breakers & Branch Circuits
- NEC Wire Standards
- Wiring Load Calculations
- Light Fixtures & Light Controls
- Grounding & Bonding
- Basic Hand Tools & Specialized Test Tools
- Cable Pulling
- Labeling and Documentation
- Structured Wiring Standards
- Wires, Connectors & Terminations
- Category Wiring Standards
- Introduction to Blueprints
- New Construction Rough-in Techniques
- Retrofit Installation Applications
- Customer Service Skills
- Troubleshooting Essentials

AND MUCH MORE!

INCLUDES:

RS-500	Test Wall & Peripherals
RS-200	Low Voltage Wiring Lab Panel
RS-8000	Residential Networking Station (Requires Two PC Workstations)
RS-4000	Home Integration Panel
RS-100IG	Instructor's Guide with PowerPoint Presentation Media (1 Per Classroom)



ACCESSORIES & ENDORSEMENT PACKAGES:

RS-100SET	STS BASIC Text and Lab Guide
RS-400	Consumables Kit
RS-450	STS Tool Kit
RS-6000	STS Audio/Video Endorsement (AV) Package
RS-8000	STS Computer Networking (CN) Endorsement Package
RS-3000	STS Environmental Controls (EC) Endorsement Package
RS-9000	STS Security & Surveillance (SS) Endorsement Package

(More Endorsement Info on Next Pages)

STS ENDORSEMENT PACKAGE

In addition to the BASIC STS Certification, it is possible to obtain additional endorsements for more specialized areas of home electronics integration.

NOTE: Requires the RS-1000

Real World Hands-on Labs!

CERTIFICATIONS:

- ETA Smart Technology Systems Audio-Video Endorsement (AV)
- ETA Smart Technology Systems Computer Networking Endorsement (CN)
- ETA Smart Technology Systems Environmental Controls Endorsement (EC)
- ETA Smart Technology Systems Security-Surveillance Endorsement (SS)

INCLUDES:

RS-6000	Audio-Video System Lab Panel
RS-8000	Residential Networking Equipment Package (Requires 2 PC Workstation Computers)
RS-3000	Multi-Zone HVAC System Panel
RS-7000	Residential Power & Control System Panel
RS-9000	Security Installer Panel (Requires a PC Workstation Computer)
RS-100EIG	STS Endorsements Instructor's Guide with PowerPoint Presentation Media (1 Per Classroom)

ACCESSORIES:

RS-600E	STS AV Text/Lab Guide
RS-800E	STS CN Text/Lab Guide
RS-300E	STS EC Text/Lab Guide
RS-900E	STS SS Text/Lab Guide

STS AUDIO/VIDEO ENDORSEMENT

RS-6000

STS professionals that possess the Audio/Video (AV) Endorsement know about monitors, speakers, amplifiers, distribution systems and antennas. They also understand acoustics and the electrical signals used by these devices.

NOTE: Requires the RS-1000

CERTIFICATIONS:

- ETA Smart Technology Systems Audio-Video Endorsement (AV)

INCLUDES:

RS-6000	Audio-Video System Lab Panel
RS-100EIG	STS Endorsements Instructor's Guide with PowerPoint Presentation Media (1 Per Classroom)

ACCESSORIES:

RS-600E	STS AV Text/Lab Guide

STS COMPUTER NETWORKING ENDORSEMENT
RS-8000

With the Computer Networking (CN) Endorsement, STS professionals demonstrate advanced knowledge of computer networks, networking hardware, and communication wiring. They should also know how to configure networks and devices.

NOTE: Requires the RS-1000

CERTIFICATIONS:

ETA Smart Technology Systems
Computer Networking Endorsement (CN)

INCLUDES:

RS-8000	Residential Networking Equipment Package (Requires 2 PC Workstation Computers)
RS-100EIG	STS Endorsements Instructor's Guide with PowerPoint Presentation Media (1 Per Classroom)

ACCESSORIES:

RS-800E	STS CN Text/Lab Guide

STS ENVIRONMENTAL CONTROLS ENDORSEMENT
RS-8500

The Environmental Controls (EC) Endorsement show that an STS professional has studied lighting and HVAC controls, along with controls for other features such as remote door entry, energy, curtains, aquariums, pools, ponds, water fountains and water sprinklers.

NOTE: Requires the RS-1000

CERTIFICATIONS:

ETA Smart Technology Systems
Environmental Controls Endorsement (EC)

INCLUDES:

RS-3000	Multi-Zone HVAC System Panel
RS-7000	Residential Power & Control System Panel
RS-100EIG	STS Endorsements Instructor's Guide with PowerPoint Presentation Media (1 Per Classroom)

ACCESSORIES:

RS-300E	STS EC Text/Lab Guide

STS SECURITY & SURVEILLANCE ENDORSEMENT
RS-9000

By obtaining the STS Security & Surveillance (SS) Endorsement, STS professionals show proficiency installing, configuring, and troubleshooting security, fire, and surveillance systems.

NOTE: Requires the RS-1000

CERTIFICATIONS:

ETA Smart Technology Systems
Security-Surveillance Endorsement (SS)

INCLUDES:

RS-9000	Security Installer Panel (Requires a PC Workstation Computer)
RS-100EIG	STS Endorsements Instructor's Guide with PowerPoint Presentation Media (1 Per Classroom)

ACCESSORIES:

RS-900E	STS SS Text/Lab Guide

FIBER OPTICS INSTALLER CERTIFICATION COURSE

DC-6000

The Complete Fiber Optic Installers Certification Course from Marcraft prepares technicians to answer the growing demand for qualified cable installers who can understand and implement fiber-optic technologies. The text/lab book covers the theory and hands-on skills needed to prepare students for fiber-optic entry-level certification.

CERTIFICATIONS:

ETA Fiber Optics Installer Certification

Not Just a Simulation! Hands-on Labs Use the Following Equipment:

- Wire Cutters & Strippers
- Fiber Optical Connectors & Plugs
- Fiber Optical Patch Panel
- Fiber Optical Splice Case
- Optical Time Domain Reflectometer
- Fusion Splicer

The Marcraft Fiber Optic Installers Certification Course covers these topics:

- Fiber Tools and Safety Considerations
- Basic Concepts of Fiber Optics
- Optic Fundamentals for Fiber Optics
- Optical Devices
- Fiber Connections
- Fiber Optics Network System
- Documentation and Troubleshooting
- Understanding Blueprints
- **AND MUCH MORE!**

Real World Hands-on Labs!

INCLUDES:

DC-6000	Fiber Cabling Lab Workstation
DC-60T	Fiber Cabling Tool Set
DC-60C	Fiber Cabling Consumable Supplies Set
DC-600IG	Instructor's Guide with PowerPoint Presentation Media (1 Per Classroom)

ACCESSORIES:

DC-600	Fiber Cabling Text/Lab Guide
DC-60T	Fiber Cabling Tool Set
DC-60C	Fiber Cabling Consumable Supplies Set
DC-690	Optical Time-Domain Reflectometer (OTDR)
DC-695	Fusion Splicer

COMMERCIAL LOW-VOLTAGE WIRING CERTIFICATION PROGRAM

DC-2000

The Complete Data Cabling Installers Certification, from the Electronic Technician Association (ETA), provides the IT industry with a vendor-neutral introduction for skilled personnel installing low voltage cabling.

Marcraft provides students with the knowledge and skills required to pass the ETA Data Cabling Installer Certification (DCIC) exam and to become a certified cable installer. The DCIC is nationally recognized and is the hiring criterion used by major communication companies.

CERTIFICATIONS:

ETA Data Cabling Installer Certification

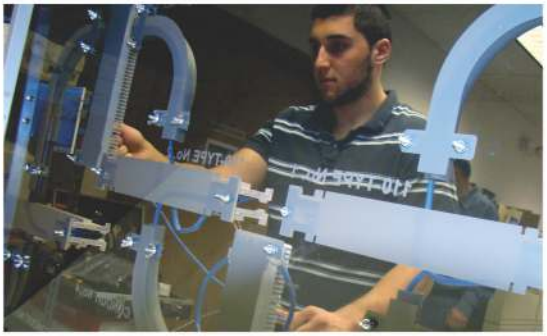
Real World Hands-on Labs!

Not Just a Simulation! Hands-on Labs Use the Following Equipment:

- Fish Tape
- Multimeters
- 110-Type & 66-Type Connection Blocks
- Punch-down Tools
- Cable Strippers & Crimpers
- Ethernet Plugs & Jacks
- Cable Testers

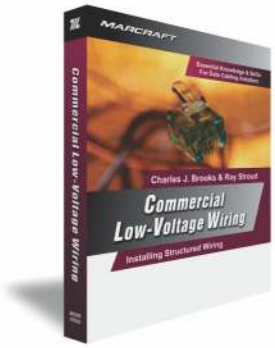
The Marcraft Commercial Low-Voltage Wiring Course covers these topics:

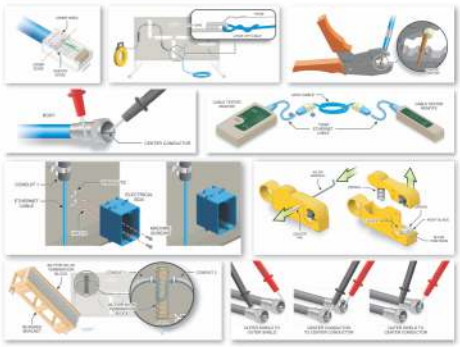
- Basic Standards and Practices
- Facilities Issues
- Cable Ratings and Performance
- Cable Installation and Management
- Testing And Troubleshooting
- Industry Standards
- Pulling Cable
- The Telephone System
- Understanding Blueprints
- **AND MUCH MORE!**



INCLUDES:

DC-2000	Structured Low Voltage Wiring Lab Workstation
DC-20D	Set of Data Cabling Durable Supplies
DC-20T	Set of Data Cabling Tools
DC-20C	Set of Data Cabling Consumable Supplies
DC-200IG	Instructor's Guide with PowerPoint Presentation Media (1 Per Classroom)





ACCESSORIES:

DC-200	Commercial Low Voltage Wiring Text/Lab Guide
DC-20D	Set of Data Cabling Durable Supplies
DC-20T	Set of Data Cabling Tools
DC-20C	Set of Data Cabling Consumable Supplies

SECURITY & SURVEILLANCE CERTIFICATION PROGRAM

SS-2000

Alarm security technicians protect homes and businesses by installing, testing, and servicing security and surveillance systems. This type of job requires good knowledge of electrical principles. Marcraft provides a practical way to practice these skills with this certification course.

CERTIFICATIONS:

ETA Certified Alarm Security Technician (CAST)

Not Just a Simulation! Hands-on Labs Use the Following Equipment:

- Security Controllers
- Motion and Magnetic Switch Sensors
- Magnetic Door Locks
- Proximity Card Readers
- Push-to-Open Buttons
- Smoke Detectors and Fire Alarms
- Sirens & Strobes
- Security Controller Network Interfaces
- Relays
- Security Cameras
- Network DVRs
- Security Controller Software

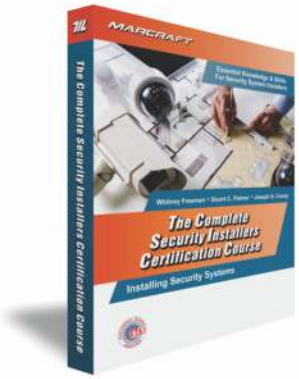
The Marcraft Security & Surveillance Certification Course covers these topics:

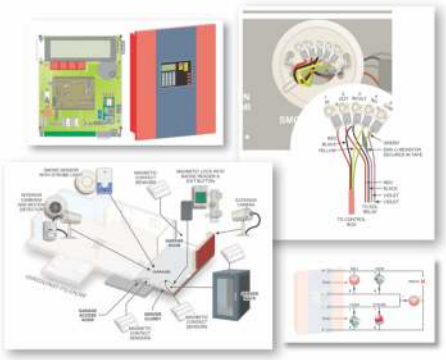
- History & Evolution of Electronic Alarm Systems
- Basic Annunciation Configurations
- Alarm Electronic Systems
- Control Stations and Certificate Services
- Testing of Electronic Alarm System Circuits
- Creating and Development of First Central Station
- EMI and RFI Electrical Interference on Circuits
- Sensors and Input Devices
- Control Panels
- Keypad and Remote Programming
- Glass Protection, Motion and Shock Sensing
- Power Supplies and Power Backup
- Touch Screen, Computers and Telephone Input
- Fire Alarms Basics and Fundamentals
- Residential and Commercial Installations
- Wireless and Electrical Monitoring Supervision
- Wired and Wireless Alarm Systems
- Fire, Heat and Smoke Detection Devices
- Video Surveillance and Recording
- Internet Access to Security Systems
- Security Cameras
- Network Digital Video Recorders

AND MUCH MORE!

INCLUDES:

SS-2000	Security System Installer Panel
SS-200IG	Instructor's Guide with PowerPoint Presentation Media (1 Per Classroom)





ACCESSORIES:

SS-200	Security System Installer Theory/Lab Guide
SS-20D	Security System Installer Durable Supplies Set
SS-20T	Security System Installer Tool Kit
SS-20C	Security System Installer Consumable Supplies Set

States use a variety of federal, state and local funds to pay for CTE programs, and research supports the need for more funding. High school students who complete at least two course credits in courses designated as "pathways" led to about a 95% graduation rate, and this is according to federal data. This translates to a 10% increase when compared to the national average. A 2019 University of Nevada study found that students who completed a CTE pathway scored significantly higher on the ACT composite math, science, English, reading and writing assessments than those who did not.

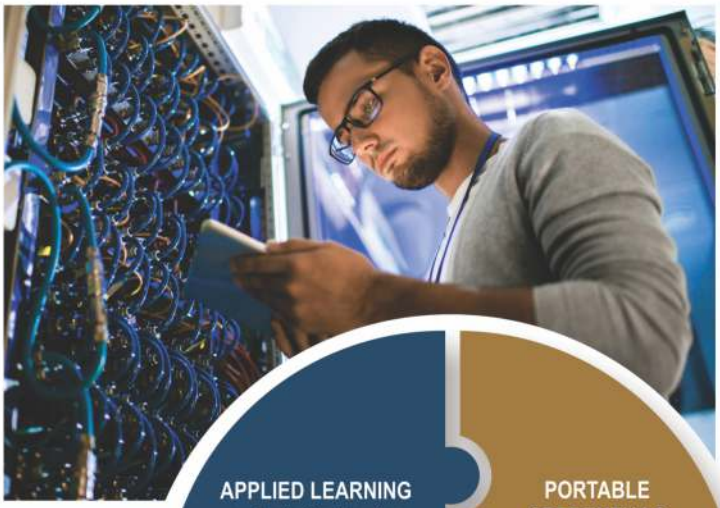
"Global cybersecurity job vacancies grew by 350%, from one million openings in 2013 to 3.5 million expected in 2025."

Cybercrime Magazine

"Investing in high-quality training programs is key to addressing labor shortages for skilled jobs", says Anthony Carnevale, director of Georgetown University's Center on Education and the Workforce. "Unlike many European countries, the U.S. doesn't have federally backed training programs, but the time may have come, he says".

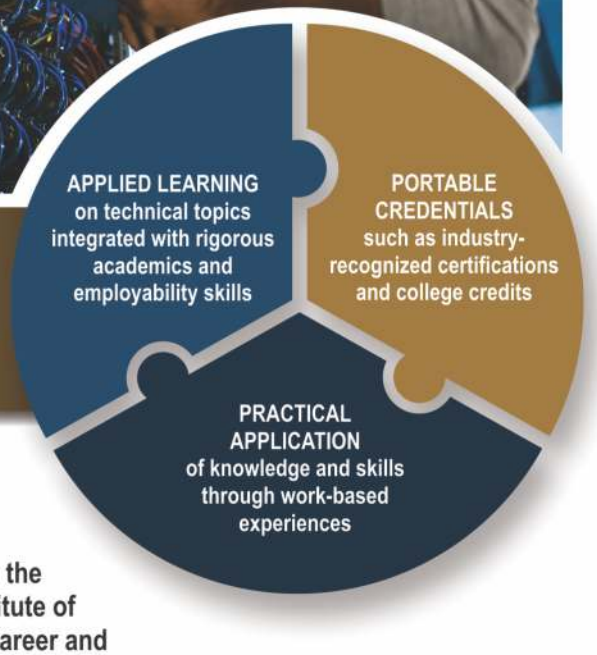
CTE associate degrees can pay $10,000 more per year than associate degrees in other fields – and can even pay more than bachelor's degrees – while limiting student debt.

Georgetown University Center on Education and the Workforce, 2020



WHY CTE?
CAREER TECHNICAL EDUCATION

CTE students earn industry certifications and licenses, postsecondary certificates, associate degrees, bachelor's degrees and higher.



Stephen Rejto of the MIT Lincoln Academy gives a great description of cybersecurity. "While conventional IT work involves managing computers, networks and systems, cyber jobs are much more focused on the security aspects of ... the electronics," he says. "Cybersecurity usually concentrates on identifying and patching loopholes in software and hardware that a criminal might exploit, and it may include building hacker-proof technology. It's different than straightforward programming and narrower in scope than computer science."

CTE high school students are college and career ready – 94% graduate high school and most enroll directly in college.

U.S. Department of Education, Consolidated State Performance Report 2010-2018

Because of solid employment figures and other data relating to work-life balance, the Cybersecurity sector received the highest rating among all career paths evaluated in the 2022 U.S. News Best Jobs rankings.

According to the National Institute of Standards, Career and Technical Education (CTE) programs have proven to be an effective approach to prepare secondary and postsecondary students to succeed in cybersecurity careers with the top 3 benefits for students are the attainment of:

- Competencies – to qualify them for a cybersecurity career
- Employability Skills – such as teamwork
- Real-World Experiences – to apply learning

CTE is the answer to the nation's projected deficit of 6.5 million skilled workers, including infrastructure, health care and manufacturing workforce shortages.

Construction Industry Resources, 2021

All training units are built right here in our plant
in Western New York State.

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