

TECHNICAL CAREERS

(Apprenticeship, Associate's Degree, Advanced Certification, Experience, etc.)

- Urban Forester
- Water and Quality Field Technician
- Veterinary Technician
- Floral Designer
- Landscape Contractor
- Horticulture Grower
- Turf Manager/Greenskeeper
- Kennel Owner
- Laboratory Technician

PROFESSIONAL CAREERS

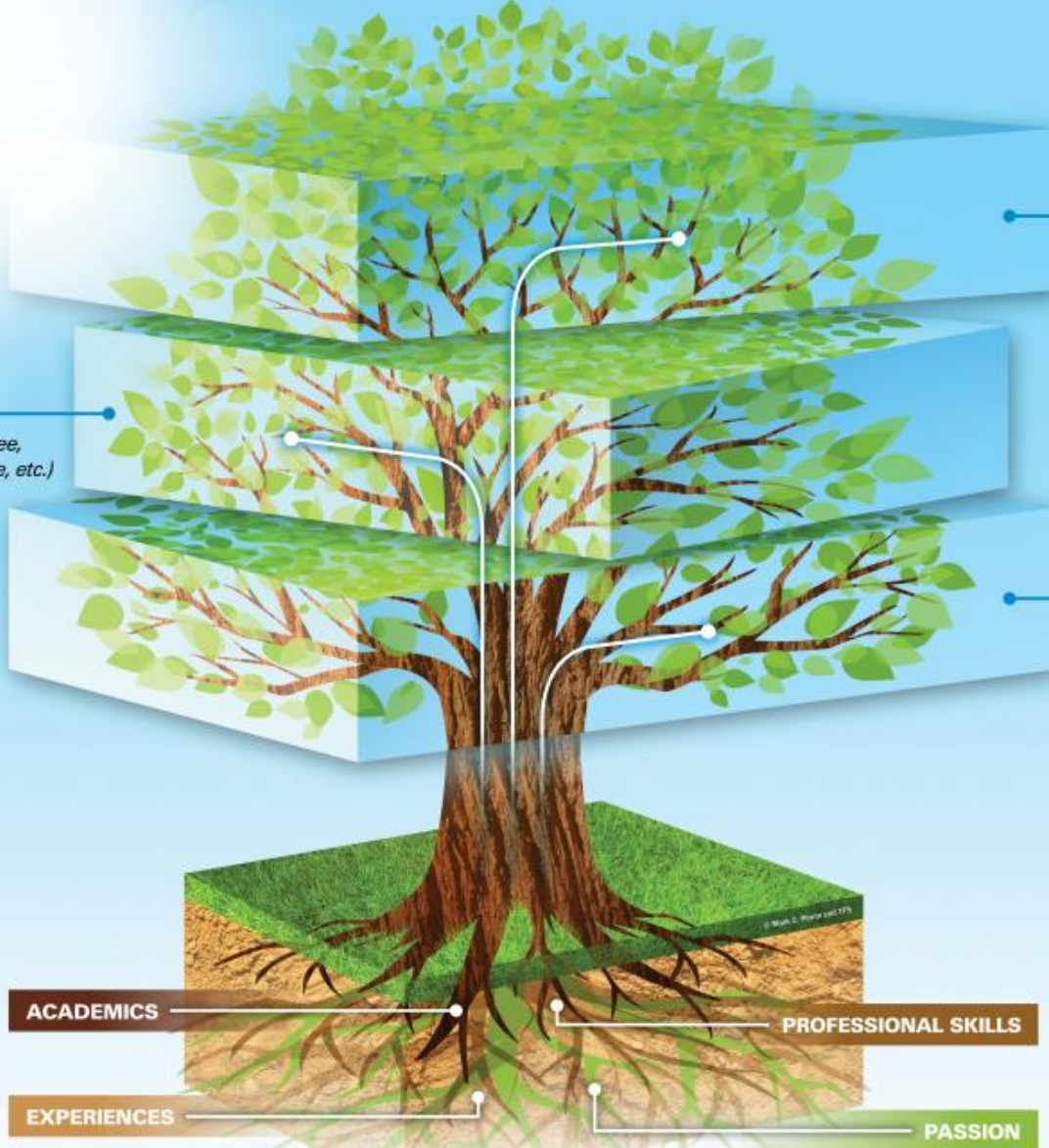
(Bachelor's, Master's, Ph.D., Specialized Training, Experience, etc.)

- Wildlife Biologist
- Conservation Officer
- Environmental Engineer
- Agriscience Teacher
- Veterinarian
- Animal Scientist
- Geneticist
- Urban Planner
- Landscape Architect
- Horticulture Manager

ENTRY-LEVEL CAREERS

(with Program Completion)

- Veterinary Assistant
- Floral Assistant
- Landscape Apprentice
- Horticulture Assistant
- Lab Assistant
- Animal Care Associate
- Pet Groomer
- Kennel Assistant
- Parks and Recreation Assistant
- Fisheries and Wildlife Assistant



AGRISCIENCE AND ENVIRONMENTAL TECHNOLOGIES

12 Segments:

1. Safety
2. Animal Anatomy and Physiology
3. Animal Genetics and Reproduction
4. Domestic Animal Production
5. Animal Health and Nutrition
6. Plant Anatomy and Physiology
7. Soils and Plant Nutrition
8. Plant Culture and Propagation
9. Natural Resource Systems
10. Environmental Service Systems
11. Agriculture Business and Marketing
12. Career Readiness and Leadership

Universal Skills for All Programs:

1. Follow Industry Safety Standards
2. Ability to work both independently and as part of a team
3. Ability to manage time
4. Possess critical thinking and problem solving skills
5. Ability to plan and organize tasks
6. Computer skills
7. Interpersonal communication
8. Work under stress and time constraints
9. Strong work ethic
10. Self-Directed
11. Ability to work in a facilitated learning environment with minimal supervision
12. Ability to work with diverse groups
13. Attention to detail
14. Able to pass a drug screen

Indispensable Skills and Essential Functions:

1. Interest in Science, Animal and Environmental Systems
2. Work in weather extremes
3. Exposure to allergens, bee stings, pesticides, pond water and manure
4. Willing to do dirty jobs
5. Ability to lift 5-100 pounds
6. Ability to operate small machinery
7. Eye/hand/foot coordination
8. Attain stamina to stand for long periods of time
9. Ability to apply scientific method

Academic Frontloading:

- Biology, Reading and Written Skills
- Math: Ratios, Percentages, Measurements
- Natural Science problem solving and scientific process

National/State Credentialing:

General:

- Career Safe, OSHA 10 General Industry, Agriculture

Animal Science:

- Animal Care Technologies - Veterinary Receptionist
- Veterinary Assistant 1 and 2
- Veterinary Foundations
- Veterinary Kennel Assistant
- Certified Veterinary Assistant
- Veterinary Management
- Case Agricultural Science Animal
- NHJTCA Equine Management & Evaluation
- NCLCA Principles of Livestock Selection & Evaluation
- The Elanco Veterinary Medical Applications Certification
- The Elanco Fundamentals of Animal Science Certification
- AMSA Culinary Meat Selection & Cookery Certification
- AMSA Food Safety & Science Certification
- AMSA Meat Evaluation Certification
- Pet Groomer Career Diploma Penn Foster

Plant Science:

- Davey Tree - Landscape Maintenance
- Davey Tree - Practical Tree Care
- MI - Certified Florist
- MI - Student Certified Florist
- The Benz School of Floral Design Principles of Floral Design
- MI - Certified Green Industry Professional
- MI - Student Certified Green Industry Professional
- The Bayer Crop Science Plant Science Certification
- Pesticide Applicator
- Case Agricultural Science Plant
- Case Agriculture, Food, Natural Resources
- Case Natural Resources and Ecology

Natural Resources:

- The Ducks Unlimited Ecology Conservation & Management
- Watershed Management Training Certificate
- Wildlife Forestry Career Diploma Penn Foster
- Career Safe, General Industry, Agriculture
- Agriculture, Food, Natural Resources
- Agricultural Science Animal

- Agricultural Science Plant
- Natural Resources and Ecology
- Watershed Management Training Certificate
- Certified Florist
- Student Certified Florist
- Student Certified Green Industry Professional
- Certified Green Industry Professional
- Pesticide Applicator
- Pet Groomer Career Diploma
- Purina Certified Weight Coach
- VetMedTeam Animal Certification
- Certified Veterinary Assistant
- Veterinary Assistant 1 and 2
- Veterinary Foundations
- Veterinary Kennel Assistant
- Veterinary Management
- Wildlife Forestry Career Diploma

*Certifications may vary by Campus, please see instructor for details.

TECHNICAL CAREERS

(Apprenticeship, Associate's Degree, Advanced Certification, Experience, etc.)

- Automotive Manager/Owner
- Automotive Instructional Technician
- Automotive Parts Manager
- Automotive Service Manager
- Automotive Tech Support
- ASE Master Technician
- Automotive Service Technician
- Specialized or Specialty Technician
- Master Certified Automotive Technician

PROFESSIONAL CAREERS

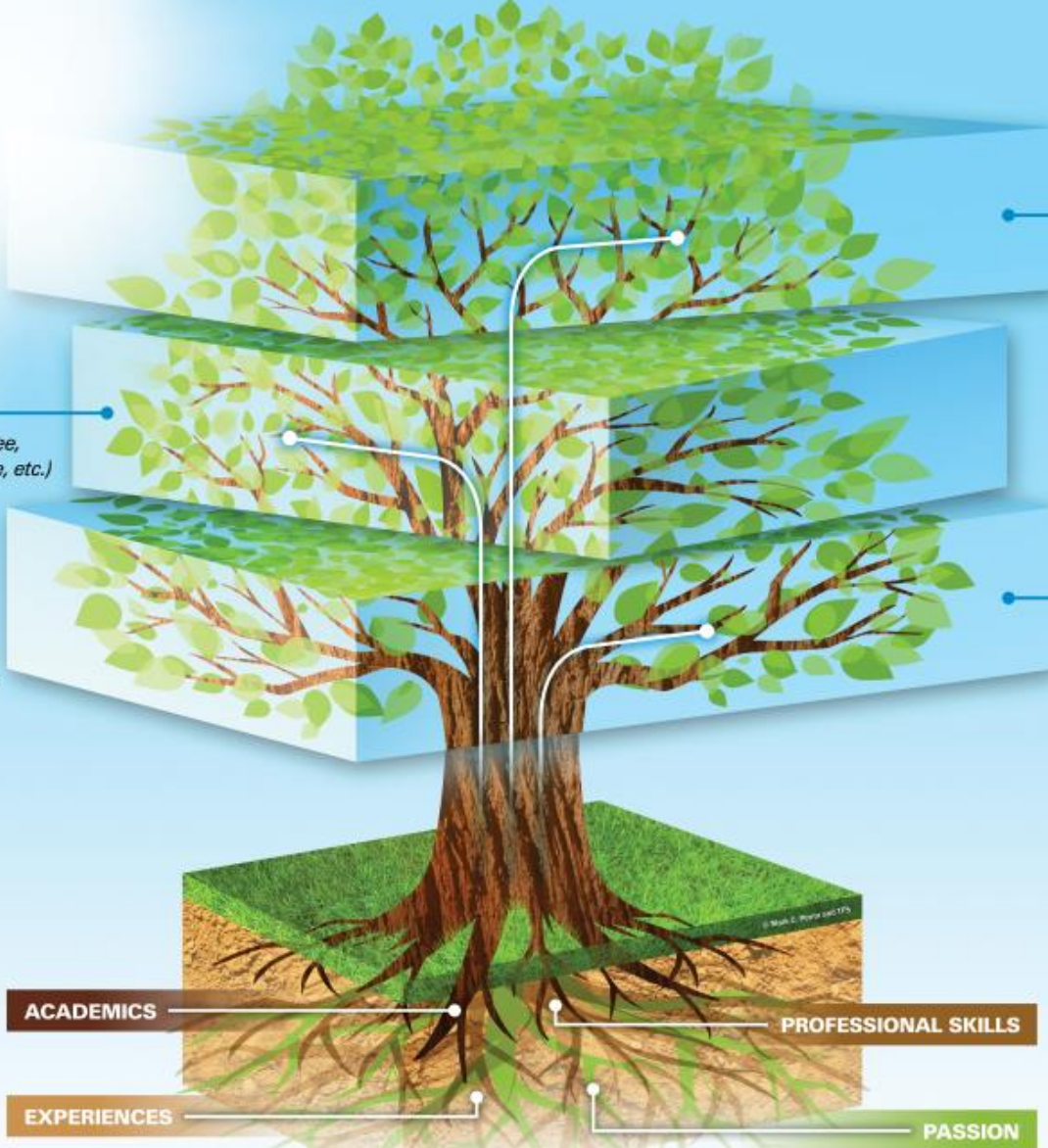
(Bachelor's, Master's, Ph.D., Specialized Training, Experience, etc.)

- Automotive Manager/Owner
- Business Manager
- Design Engineer
- Electrical Engineer
- Mechanical Engineer
- Equipment Manufacturer Support Specialist
- Automotive Technology Educator

ENTRY-LEVEL CAREERS

(with Program Completion)

- Brakes System Technician
- Electrical/Electronic Technician
- Suspension/Steering System Technician
- General Service Technician
- Automotive Maintenance and Light Repair Technician
- Porter
- Lube Technician
- Line Technician
- Automotive Parts Technician



AUTOMOTIVE TECHNOLOGY



AUTOMOTIVE TECHNOLOGY

12 Segments:

1. Engine Repair
2. Automatic Transmission and Transaxle
3. Manual Drive Train Axles
4. Suspension and Steering Systems
5. Brakes
6. Electrical/Electronic Systems
7. Heating and Air Conditioning
8. Engine Performance
9. Required Supplemental Tasks
10. Facility & Mobile Equipment Maintenance
11. Transportation, Distribution & Logistics
12. Career Ready Practices

Universal Skills for All Programs:

1. Follow Industry Safety Standards
2. Ability to work both independently and as part of a team
3. Ability to manage time
4. Possess critical thinking and problem solving skills
5. Ability to plan and organize tasks
6. Computer skills
7. Interpersonal communication
8. Work under stress and time constraints
9. Strong work ethic
10. Self- Directed
11. Ability to work in a facilitated learning environment with minimal supervision
12. Ability to work with diverse groups
13. Attention to detail
14. Able to pass a drug screen

Indispensable Skills and Essential Functions:

1. Ability to use diagnostic equipment
2. Exposure to fumes
3. Work under cars and hydraulic lifts
4. Attain stamina to stand for long periods of time
5. Attain driver's license
6. Ability to lift 50-100 pounds
7. Mechanical aptitudes/abilities
8. Tool and machine naming, use and memorization
9. Willing to do dirty jobs
10. Eye/Hand/Foot Coordination
11. Ability to follow step by step procedures

Academic Frontloading:

- Basic knowledge of Algebra and applied Math

National/State Credentialing:

- ASE Electrical Electronic Systems
- ASE Engine Performance
- OSHA 10
- ASE Engine Repair
- Autolift Institute
- ASE Brakes
- ASE Suspension and Steering
- ASE Maintenance and Light Repair
- ASE Heating and AC
- ASE Automatic Transmission Transaxle
- ASE Manual Drivetrain and Axles
- ASE Automotive Service Technology
- Customer Service and Sales/Customer Service and Sales 1
- Advanced Customer Service and Sales/Customer Service and Sales 2
- MIAT Electrical Systems
- MIAT Engine Tune up Performance
- MIAT Engine Repair
- MIAT Brakes Braking Systems
- MIAT Front End Suspension and Steering Systems
- MIAT Heating and Air Conditioning
- MIAT Automatic Transmissions
- MIAT Manual Transmission Front and Rear Drive Axles

*Certifications may vary by Campus, please see instructor for details.

TECHNICAL CAREERS

(Apprenticeship, Associate's Degree, Advanced Certification, Experience, etc.)

- Collision Repair Manager/Owner
- Refinish Technician
- Automotive Body Technician
- Estimator/Insurance Appraiser
- Electrical/Mechanical Technician

PROFESSIONAL CAREERS

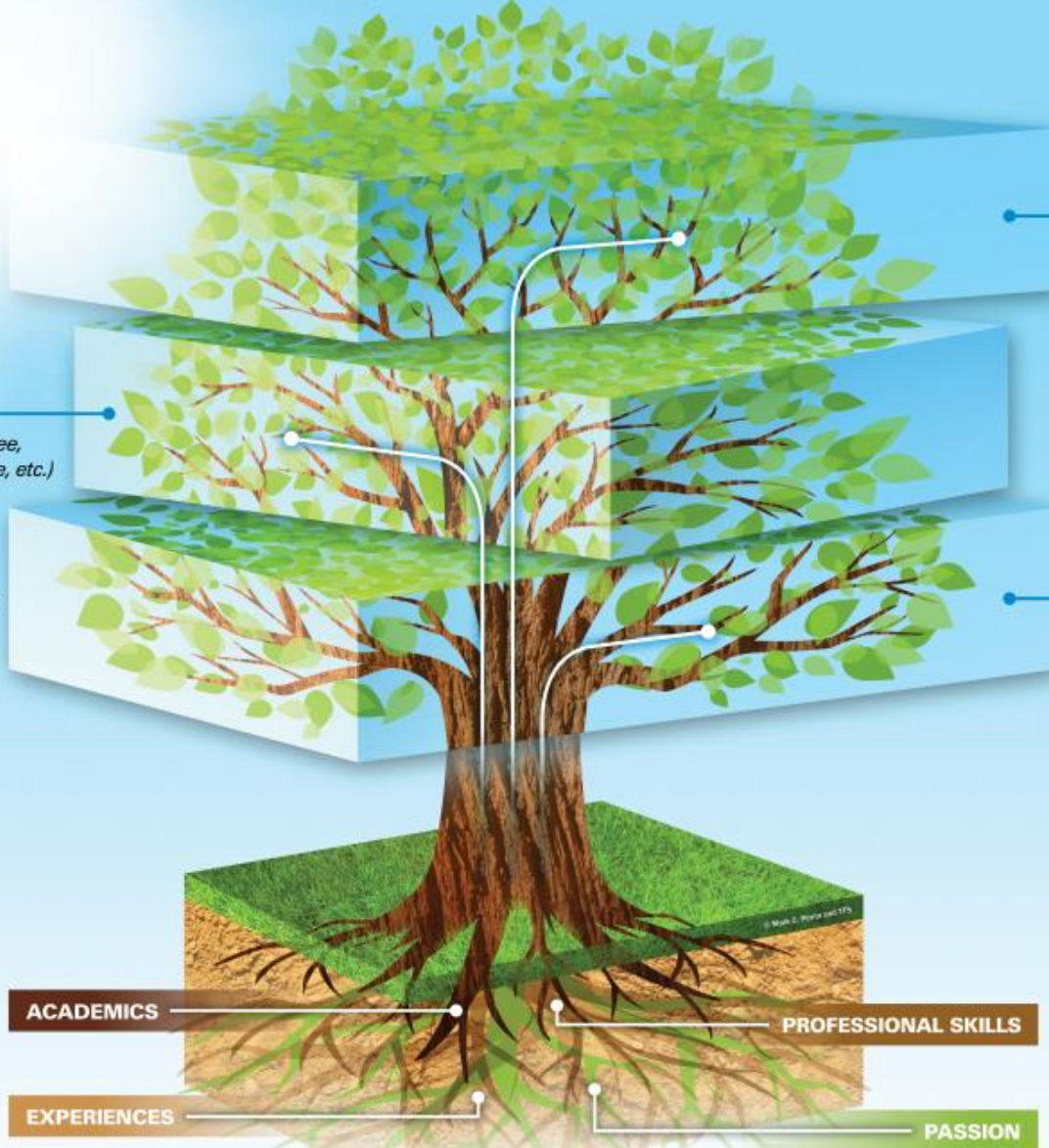
(Bachelor's, Master's, Ph.D., Specialized Training, Experience, etc.)

- Automotive Manager/Owner
- Business Manager
- Design Engineer
- Mechanical Engineer
- Equipment Manufacturer Support Specialist
- Automotive Technology Educator

ENTRY-LEVEL CAREERS

(with Program Completion)

- Detail Technician Trainee
- Refinish Technician Trainee
- Collision Repair Technician Trainee
- Structural Repair Technician Trainee



COLLISION REPAIR AND REFINISHING



COLLISION REPAIR AND REFINISHING

12 Segments:

1. Collision Orientation
2. Career and Employability Skills
3. Safety
4. Substrate Identification and Preparation
5. Refinishing Equipment
6. Undercoats and Corrosion Protection
7. Mixing and Applying Topcoat
8. Final Detailing
9. Advance Color Mixing / Refinishing
10. Paint Problems / Defects
11. Damage Analysis / Estimating
12. Refinishing Certifications

Universal Skills for All Programs:

1. Follow Industry Safety Standards
2. Ability to work both independently and as part of a team
3. Ability to manage time
4. Possess critical thinking and problem solving skills
5. Ability to plan and organize tasks
6. Computer skills
7. Interpersonal communication
8. Work under stress and time constraints
9. Strong work ethic
10. Self- Directed
11. Ability to work in a facilitated learning environment with minimal supervision
12. Ability to work with diverse groups
13. Attention to detail
14. Able to pass a drug screen

Indispensable Skills and Essential Functions:

1. Ability to use diagnostic equipment
2. Exposure to fumes
3. Work under cars and hydraulic lifts
4. Attain stamina to stand for long periods of time
5. Attain driver's license
6. Ability to lift 50-100 pounds
7. Mechanical aptitudes/abilities
8. Tool and machine naming, use and memorization
9. Willing to do dirty jobs
10. Eye/Hand/Foot Coordination
11. Ability to follow step by step procedures

Academic Frontloading:

- Automotive course

National/State Credentialing:

- MICR Unitized Body Structural Repair 2.
- MICR Collision Related Mechanical Repair 3.
- I Car PDP Training Certification
- Autolift Institute
- Customer Service and Sales/Customer Service and Sales 1
- Advanced Customer Service and Sales/Customer Service and Sales 2
- ASE Painting and Refinishing
- ASE Non-structural Analysis and Damage Repair
- ASE Structural Analysis and Damage Repair
- ASE Mechanical and Electrical
- OSHA10

*Certifications may vary by Campus, please see instructor for details.

TECHNICAL CAREERS

(Apprenticeship, Associate's Degree, Advanced Certification, Experience, etc.)

- Helpdesk Manager
- Systems Analyst
- Network Administrator
- Technical Support Specialist
- Hardware Maintenance Technician
- Systems Coordinator
- Call Center Support Manager

PROFESSIONAL CAREERS

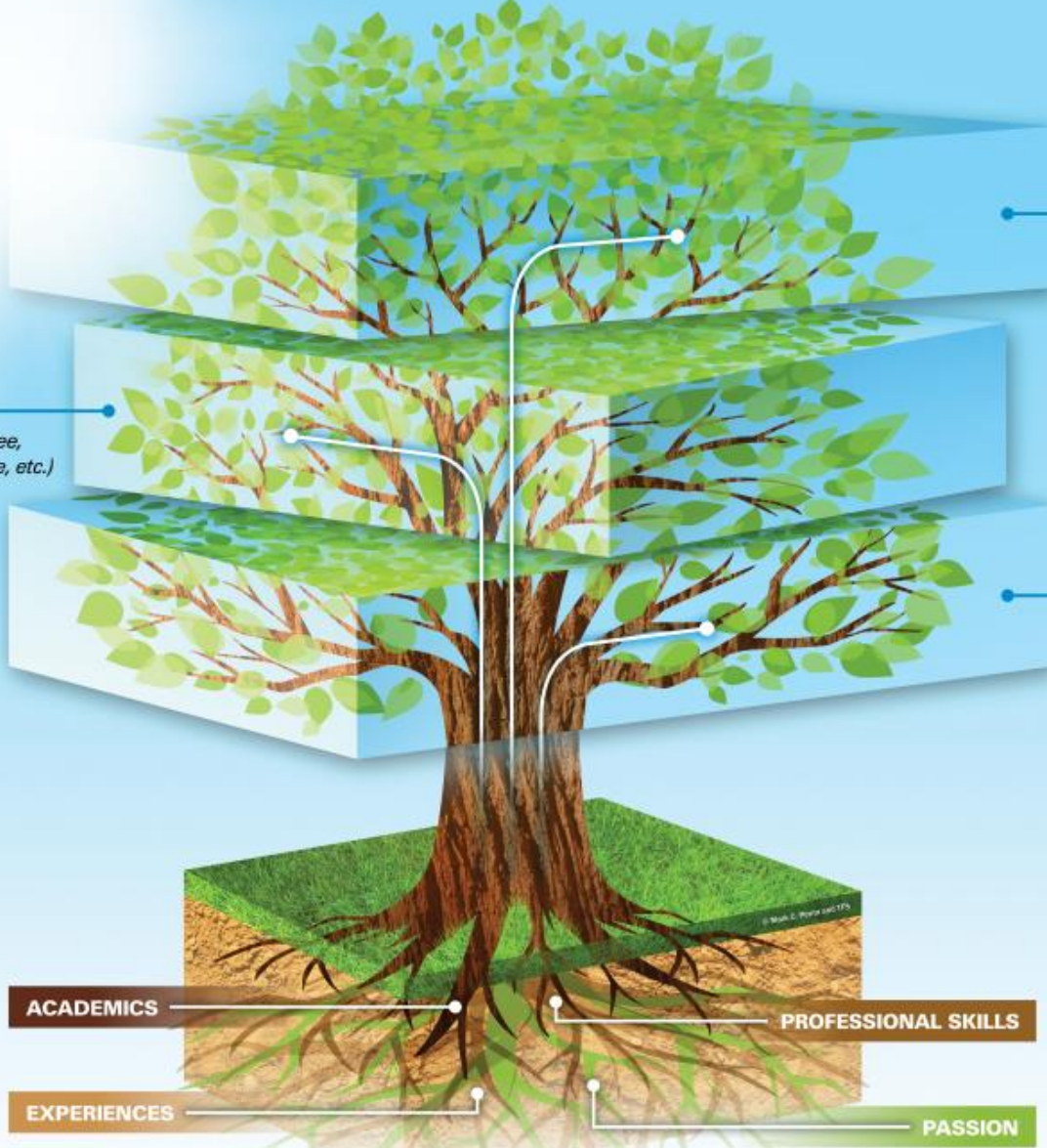
(Bachelor's, Master's, Ph.D., Specialized Training, Experience, etc.)

- IT Project Manager
- Network Designer and Administrator
- Technical Support Engineer
- Technical Writer
- Technical Account Manager
- Test Engineer

ENTRY-LEVEL CAREERS

(with Program Completion)

- PC Support Specialist
- Helpdesk Technician
- Technical Support Representative
- Systems Administrator
- User Support Specialist



COMPUTER NETWORKING



COMPUTER NETWORKING

12 Segments:

1. PC Hardware
2. Troubleshooting, Repair & Maintenance
3. Operation Systems & Software
4. Safety
5. Security
6. Operational Procedure
7. Network Technologies
8. Network Hardware & Tools
9. Personal Skills & Customer Service
10. Network Management
11. Teamwork & Leadership
12. Network Analysis & Design

Universal Skills for All Programs:

1. Follow Industry Safety Standards
2. Ability to work both independently and as part of a team
3. Ability to manage time
4. Possess critical thinking and problem solving skills
5. Ability to plan and organize tasks
6. Computer skills
7. Interpersonal communication
8. Work under stress and time constraints
9. Strong work ethic
10. Self- Directed
11. Ability to work in a facilitated learning environment with minimal supervision
12. Ability to work with diverse groups
13. Attention to detail
14. Able to pass a drug screen

Indispensable Skills and Essential Functions:

1. Computer literate
2. Attain keyboarding of 35 WPM
3. Diagnose and perform computer repairs
4. Ability to multitask
5. Motor Coordination/Finger Dexterity
6. Spatial/Form Perception
7. Ability to participate in public speaking events
8. Employ technological tools to expedite workflow
9. Familiarity with related software
10. Ability to lift 25-50 pounds

Academic Frontloading:

- Math, English 9 and 10

State and/or National Credentialing:

- CompTIA A+
- MTA Cloud Fundamentals
- MTA Mobility & Device Fundamentals
- MTA Security Fundamentals
- MTA Networking Fundamentals
- MTA Windows Operating System Fundamentals
- MTA Windows Server Administration Fundamentals
- Testout PC Pro
- Testout Network Pro
- IC3 Digital Literacy
- IC3 Computing Fundamentals
- IC3 Key Applications
- IC3 Living Online
- Microsoft Office Specialist Excel
- Microsoft Office Specialist Excel Expert
- Microsoft Office Specialist Outlook
- Microsoft Office Specialist PowerPoint
- Microsoft Office Specialist Word
- Microsoft Office Specialist Word Expert
- Microsoft Office Specialist Master Certification
- NRF Customer Service & Sales
- NRF Advanced Customer Service & Sales
- CompTIA Linux+
- CompTIA Network+
- CompTIA Security+
- CompTIA IT Fundamentals
- Microsoft Office Specialist Access
- Microsoft Certified Professional

*Certifications may vary by Campus, please see instructor for details.

TECHNICAL CAREERS

(Apprenticeship, Associate's Degree, Advanced Certification, Experience, etc.)

- Java Developer
- Systems Engineer
- Systems Analyst
- Database Developer and Administrator
- Programming/Software Engineer
- Data Modeler
- Web Administrator
- Web Architect

PROFESSIONAL CAREERS

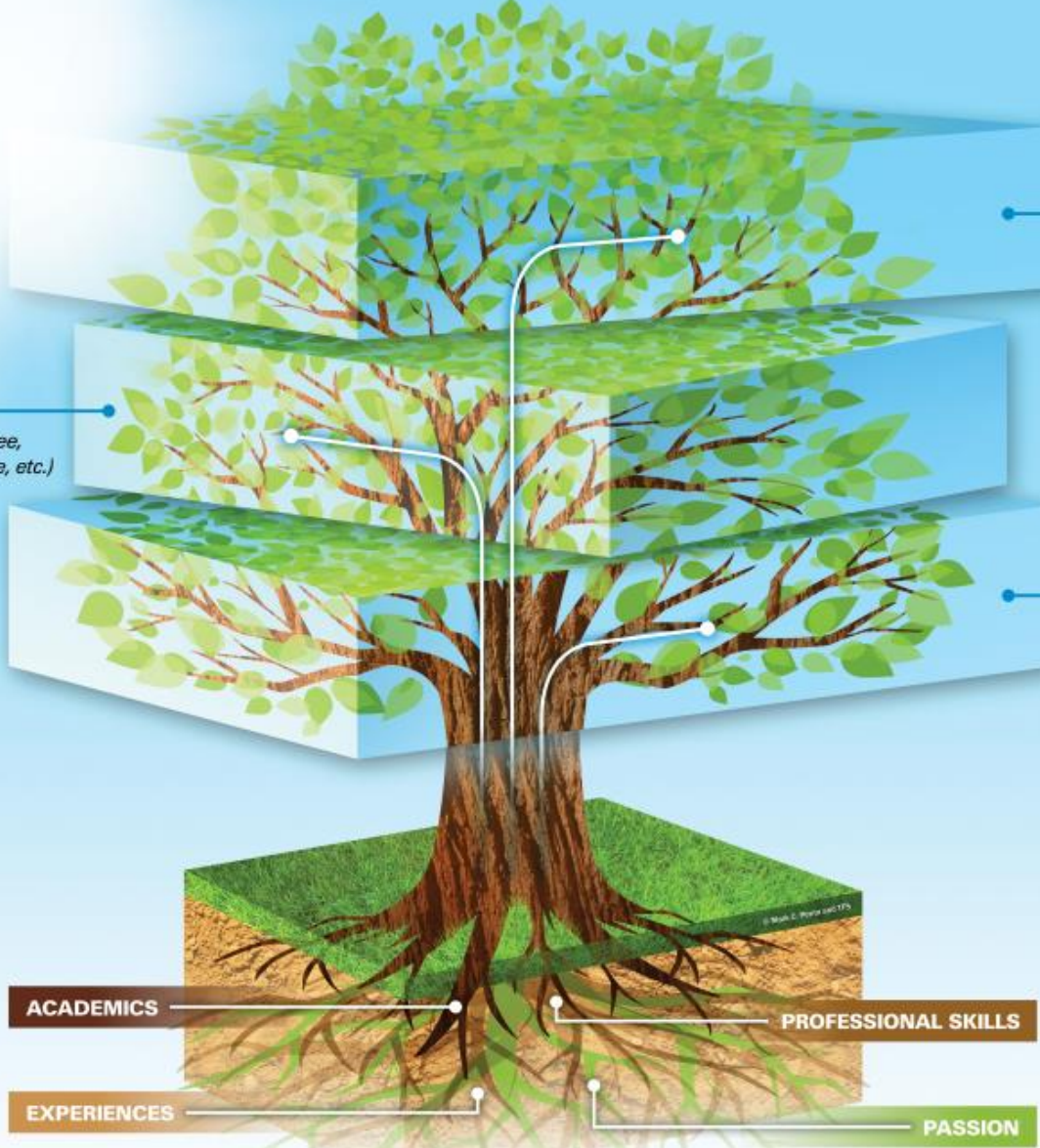
(Bachelor's, Master's, Ph.D., Specialized Training, Experience, etc.)

- Project Manager
- Database Architect
- Systems Analyst
- Database Security Expert
- Enterprise Developer
- Software Developer Engineer
- Web Site Manager

ENTRY-LEVEL CAREERS

(with Program Completion)

- Database Administration Associate
- Programmer Associate
- Applications Developer
- Web Developer



COMPUTER PROGRAMMING



COMPUTER PROGRAMMING

12 Segments:

Business Communications
Ethics, legal, copyright, Safety
Career and Employability (entrepreneurship)
Information Technology Fundamentals (C)
Logic and Problem Solving (B)
Beginning Application Development (E,F) (Coding)
Advanced Application Development (database, files) (J)
Leadership and Teamwork
Programming Fundamentals and Syntax (D)
Needs Assessment / Project Planning (A,B)
Debug and Software Testing (G) (Quality Assurance) (H)
Program Maintenance (I) (enhancements)

Universal Skills for All Programs:

Follow Industry Safety Standards
Ability to work both independently and as part of a team
Ability to manage time
Possess critical thinking and problem solving skills
Ability to plan and organize tasks
Computer skills
Interpersonal communication
Work under stress and time constraints
Strong work ethic
Self- Directed
Ability to work in a facilitated learning environment with minimal supervision
Ability to work with diverse groups
Attention to detail
Able to pass a drug screen

Indispensable Skills and Essential Functions:

Computer literate
Attain keyboarding of 35 WPM
Diagnose and perform computer repairs
Ability to multitask
Motor Coordination/Finger Dexterity
Spatial/Form Perception
Ability to participate in public speaking events
Employ technological tools to expedite workflow
Familiarity with related software
Ability to lift 25-50 pounds

Academic Frontloading:

Math, English 9 and 10

State and/or National Credentialing:

- CIW – Advanced HTML5 & CSS3
- CIW – Site Development
- CIW – Web Foundations Associate
- NRF – Customer Service & Sales
- NRF – Advanced Customer Service & Sales Microsoft Technology Associate Cloud Fundamentals
- Microsoft Technology Associate HTML5 Application Development Fundamentals
- MTA Programming HTML & CSS
- MTA Programming Java
- MTA Programming Java Script
- MTA Programming Python
- MTA Software Development Fundamentals
- MTA Software Development VB
- Adobe Certified Associate Photoshop
- Microsoft Office Specialist Access
- Microsoft Office Specialist Excel
- Microsoft Office Specialist Excel Expert
- Microsoft Office Specialist Word Expert
- Microsoft Technology Associate Mobility and Device Fundamentals Microsoft
- Technology Associate Windows Operating System Fundamentals
- Adobe Certified Associate Premiere
- Google Ads Fundamentals
- Google Analytics
- Google Display Advertising
- Google Mobile Advertising
- Google Online Marketing
- Google Search Advertising
- Google Shopping Advertising
- Google Video Advertising
- IC3 – Digital Literacy Certification *
- IC3 – Computing Fundamentals *
- IC3 – Key Applications *
- IC3 – Living Online *
- Microsoft Office Specialist Master Certification
- Microsoft Office Specialist Power Point
- Microsoft Office Specialist Word

*Certifications may vary by Campus, please see instructor for details.

TECHNICAL CAREERS

(Apprenticeship, Associate's Degree, Advanced Certification, Experience, etc.)

- General Contractor
- Plumber/Pipefitter Journeyman
- HVAC Journeyman
- Electrical Journeyman
- Inspector Journeyman
- Carpenter Journeyman
- Mason/Cement Finisher
- Floor Installer
- Finish Carpenter/Cabinetmaker
- Surveyor
- Utility Worker
- Interior Design

PROFESSIONAL CAREERS

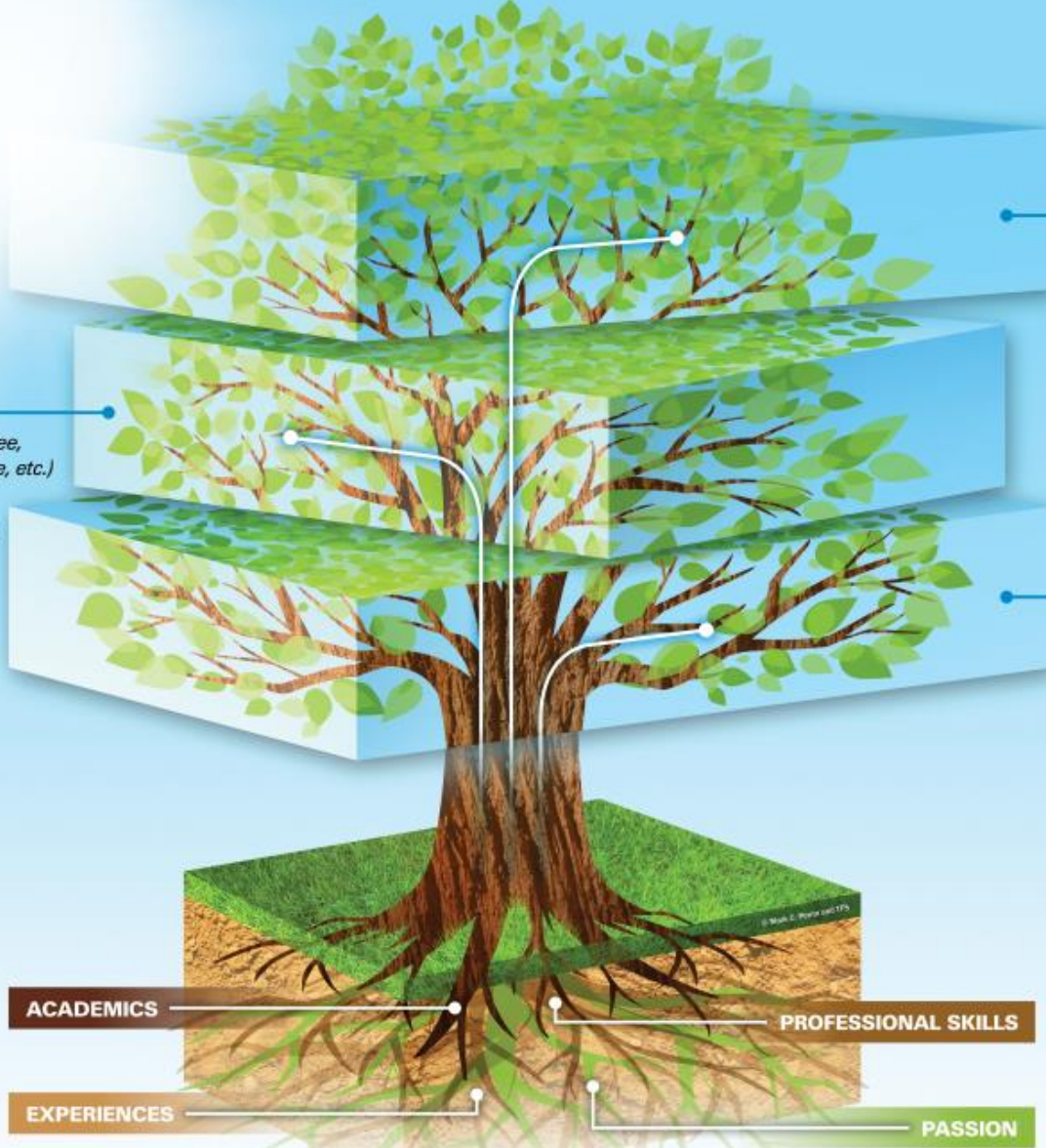
(Bachelor's, Master's, Ph.D., Specialized Training, Experience, etc.)

- Construction Manager
- Entrepreneur
- Building Manager
- Engineer
- Construction Trades Teacher
- Contractor
- Architect

ENTRY-LEVEL CAREERS

(with Program Completion)

- Construction Trades Laborer
- Carpenter Apprentice
- Mechanical Apprentice
- Plumbing, Heating/AC Apprentice
- Electrical Apprentice
- Roofer
- Painter/Drywall Installer
- Siding Installer
- Landscaper
- Abatement Worker
- Alarm Installer



ACADEMICS

PROFESSIONAL SKILLS

EXPERIENCES

PASSION

CONSTRUCTION TECHNOLOGY



CONSTRUCTION TECHNOLOGY

12 Segments:

1. Safety, Health and Environmental
2. Industry Overview
3. Employability and Technology Skills
4. Construction Materials
5. Construction Tools and Equipment
6. Building Construction Design – Blueprint, Etc.
7. Site preparation and Infrastructure
8. Common Construction Practices – Concepts Flooring, Foundation, Etc.
9. Residential Construction Techniques (Carpentry)
10. Green Technology Construction Techniques
11. Heavy Equipment/Civil Construction Techniques
12. Construction Business Management

Universal Skills for All Programs:

1. Follow Industry Safety Standards
2. Ability to work both independently and as part of a team
3. Ability to manage time
4. Possess critical thinking and problem solving skills
5. Ability to plan and organize tasks
6. Computer skills
7. Interpersonal communication
8. Work under stress and time constraints
9. Strong work ethic
10. Self- Directed
11. Ability to work in a facilitated learning environment with minimal supervision
12. Ability to work with diverse groups
13. Attention to detail
14. Able to pass a drug screen

Indispensable Skills and Essential Functions

1. Work at elevated heights on uneven surfaces and around moving machinery
2. Ability to lift 50 – 100 pounds
3. Tool machine and identification, use and memorization
4. Repetitive physical work
5. Work in weather extremes
6. Work in confined spaces
7. Tolerance for fumes and sawdust
8. Exposure to caustic chemicals and hazardous materials
9. Work with loud, hazardous equipment
10. Eye/Hand/Foot Coordination
11. Attain stamina to stand for long periods of time

Academic Frontloading

- English 9, English 10, Algebra 1
- Project Planning/Problem Solving

National/State Credentialing:

- Career Safe, OSHA 10 General Industry, Construction
- Carpenter's International Certification Council - Joint Apprentice Training
- Carpenter's International Certification Council - Joint Apprentice Training
- Carpenter's International Certification Council - Joint Apprentice Training
- Certainteed Vinyl, Insulated, and Polymer Siding
- Career Safe, OSHA 30 General Industry, Construction
- Red Cross CPR AED First Aid

*Certifications may vary by Campus, please see instructor for details.

TECHNICAL CAREERS

(Apprenticeship, Associate's Degree, Advanced Certification, Experience, etc.)

- Cosmetologist
- Nail Care Specialist
- Skin Care Specialist
- Entrepreneur/Salon Owner
- Salon Manager

PROFESSIONAL CAREERS

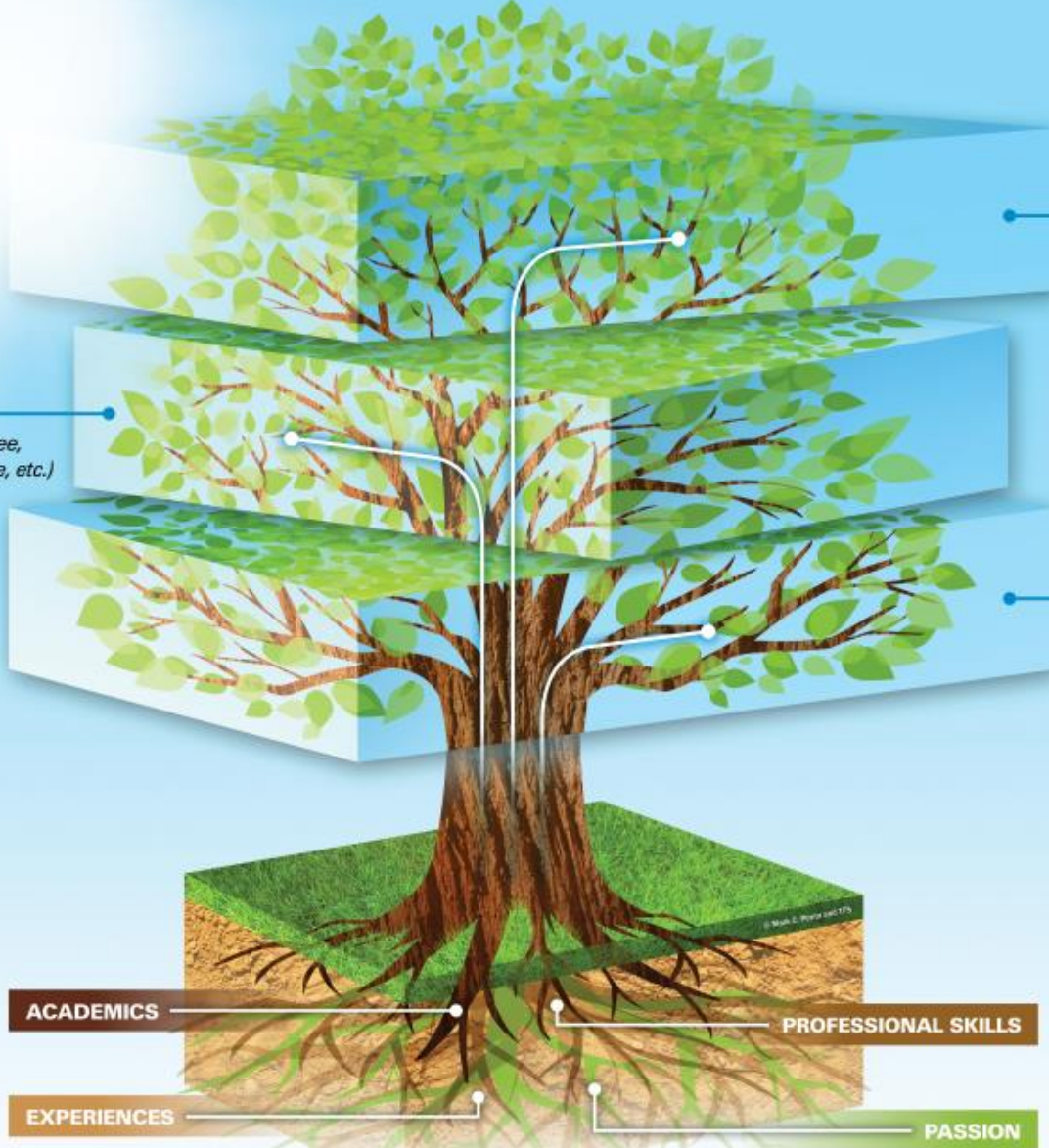
(Bachelor's, Master's, Ph.D., Specialized Training, Experience, etc.)

- Author/Editor/Publisher
- Certified Teacher
- Educational Consultant
- Product Design Consultant, Director, Engineer
- Research and Development Coordinator

ENTRY-LEVEL CAREERS

(with Program Completion)

- Salon Receptionist
- Salon Assistant



COSMETOLOGY



COSMETOLOGY

12 Segments:

1. Cosmetology Laws & Rules/Safety & Sanitation
2. Client Communication/Scalp & Hair Treatment
3. Hairdressing/Leadership
4. Career Exploration/Manicure/Pedicure
5. Chemical Hair Restructuring
6. Hair Coloring
7. Facials/Systems
8. Artificial Nails
9. Applied Anatomy, Physiology, and Histology
10. Applied Chemistry
11. Salon Management/Clinic
12. State Board Preparation

Universal Skills for All Programs:

1. Follow Industry Safety Standards
2. Ability to work both independently and as part of a team
3. Ability to manage time
4. Possess critical thinking and problem solving skills
5. Ability to plan and organize tasks
6. Computer skills
7. Interpersonal communication
8. Work under stress and time constraints
9. Strong work ethic
10. Self- Directed
11. Ability to work in a facilitated learning environment with minimal supervision
12. Ability to work with diverse groups
13. Attention to detail
14. Able to pass drug screen.

Indispensable Skills and Essential Functions:

1. Ability to memorize and apply information
2. Creative and artistic ability
3. Attain stamina to stand for long periods of time
4. Ability to work with chemicals and fumes
5. Tool identification, use and memorization
6. Ability to problem solve
7. Strong interpersonal relations
8. Eye/Hand/Foot Coordination
9. Ability to lift 25 pounds

Academic Frontloading:

- Biology, Health Science
- Minimal of 1500 hours

National/State Credentialing:

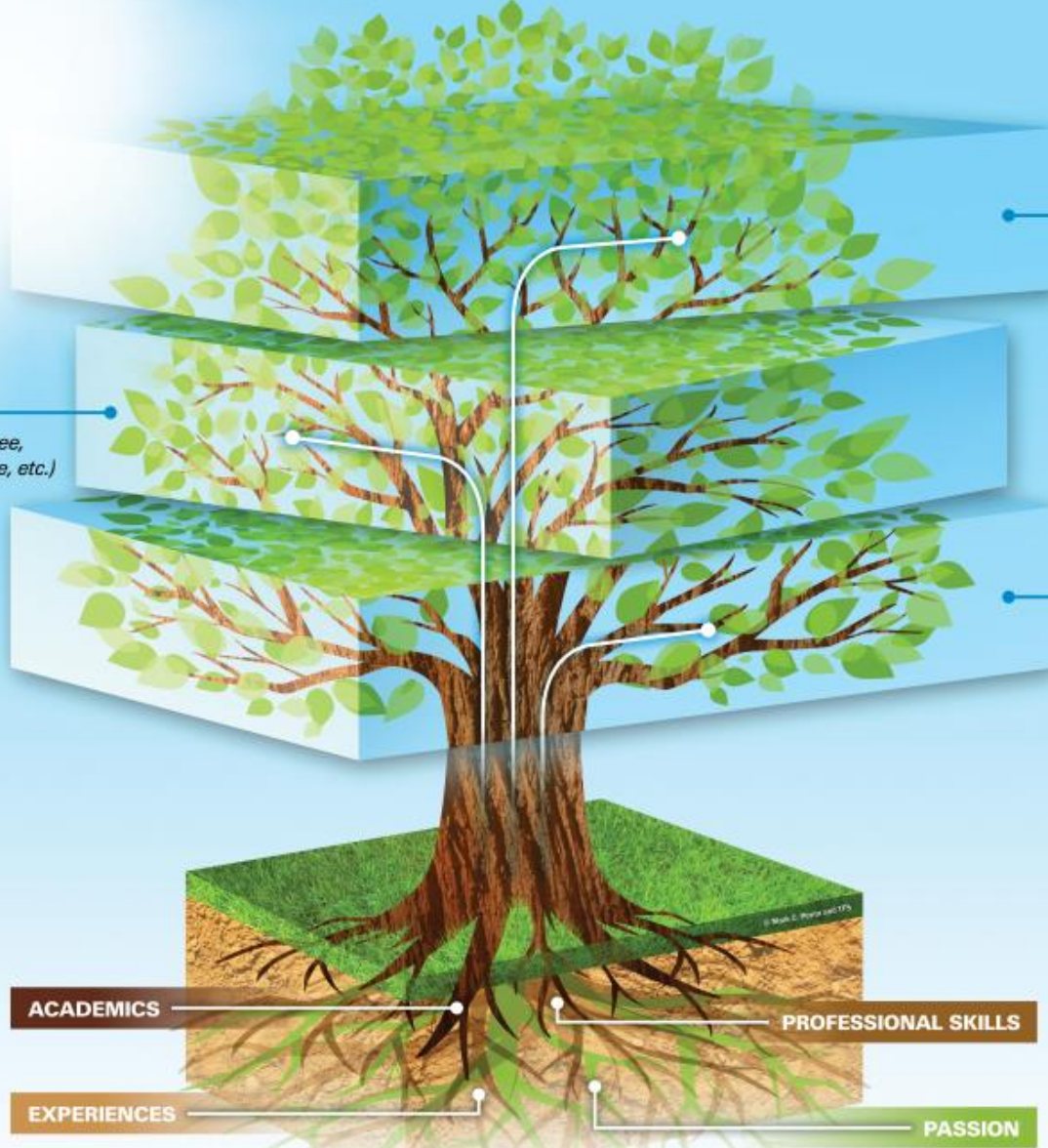
- State of Michigan Cosmetology License Exam
- NRF Customer Service Sales 1 Certification
- OSHA-10 Hour General Industry Cosmetology

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TECHNICAL CAREERS

(Apprenticeship, Associate's Degree, Advanced Certification, Experience, etc.)

- Police Officer
- Conservation/DNR Officer
- Deputy Sheriff
- State Trooper
- Corrections Officer
- Parole/Probation Officer
- SWAT Team
- Border Patrol Agent
- Bomb Squad Technician
- Police Detective
- K9 Officer



PROFESSIONAL CAREERS

(Bachelor's, Master's, Ph.D., Specialized Training, Experience, etc.)

- Police Chief/Sheriff
- FBI/DEA/CIA/IRS Agent
- US Marshall/Secret Service
- US Customs
- Attorney/Prosecutor/Defense Attorney
- Forensic Psychologist/Profiler
- Forensic Technician
- Juvenile Case Worker
- Crime Prevention Specialist
- Judge
- Magistrate
- Corrections Warden

ENTRY-LEVEL CAREERS

(with Program Completion)

- Security Officer
- Military Police
- Correctional Officer
- Park Ranger
- Animal Control Officer
- EMS/911 Dispatcher
- Paralegal
- Court Reporter
- Baliff
- Bounty Hunter/Bail Bondsman
- Private Investigator
- Immigration/Customs Officer

ACADEMICS

PROFESSIONAL SKILLS

EXPERIENCES

PASSION

CRIMINAL JUSTICE



CRIMINAL JUSTICE

12 Segments:

1. Organizational Structure
2. Professional Standards including Ethics and Legal Responsibility
3. Safety, Health and Environment
4. Public Safety Branches
5. Law and Legal System
6. Public Relations
7. Career Development
8. Workplace Technology
9. Problem Solving / Investigations
10. Leadership and Teamwork
11. Communications
12. Applied Academic in Law and Public Safety

Universal Skills for All Programs:

1. Follow Industry Safety Standards
2. Ability to work both independently and as part of a team
3. Ability to manage time
4. Possess critical thinking and problem solving skills
5. Ability to plan and organize tasks
6. Computer skills
7. Interpersonal communication
8. Work under stress and time constraints
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11. Ability to work in a facilitated learning environment
12. with minimal supervision
13. Ability to work with diverse groups
14. Attention to detail
15. Able to pass a drug screen

Indispensable Skills and Essential Functions:

1. Computer literate
2. Attain keyboarding of 35 WPM
3. Diagnose
4. Ability to multitask
5. Motor Coordination/Finger Dexterity
6. Spatial/Form Perception
7. Ability to participate in public speaking events
8. Employ technological tools to expedite workflow
9. Familiarity with related security software

Academic Frontloading:

- Math: Ratios, Percentages, Measurements, Tables
- English 9, 10
- Health

National/State Credentialing:

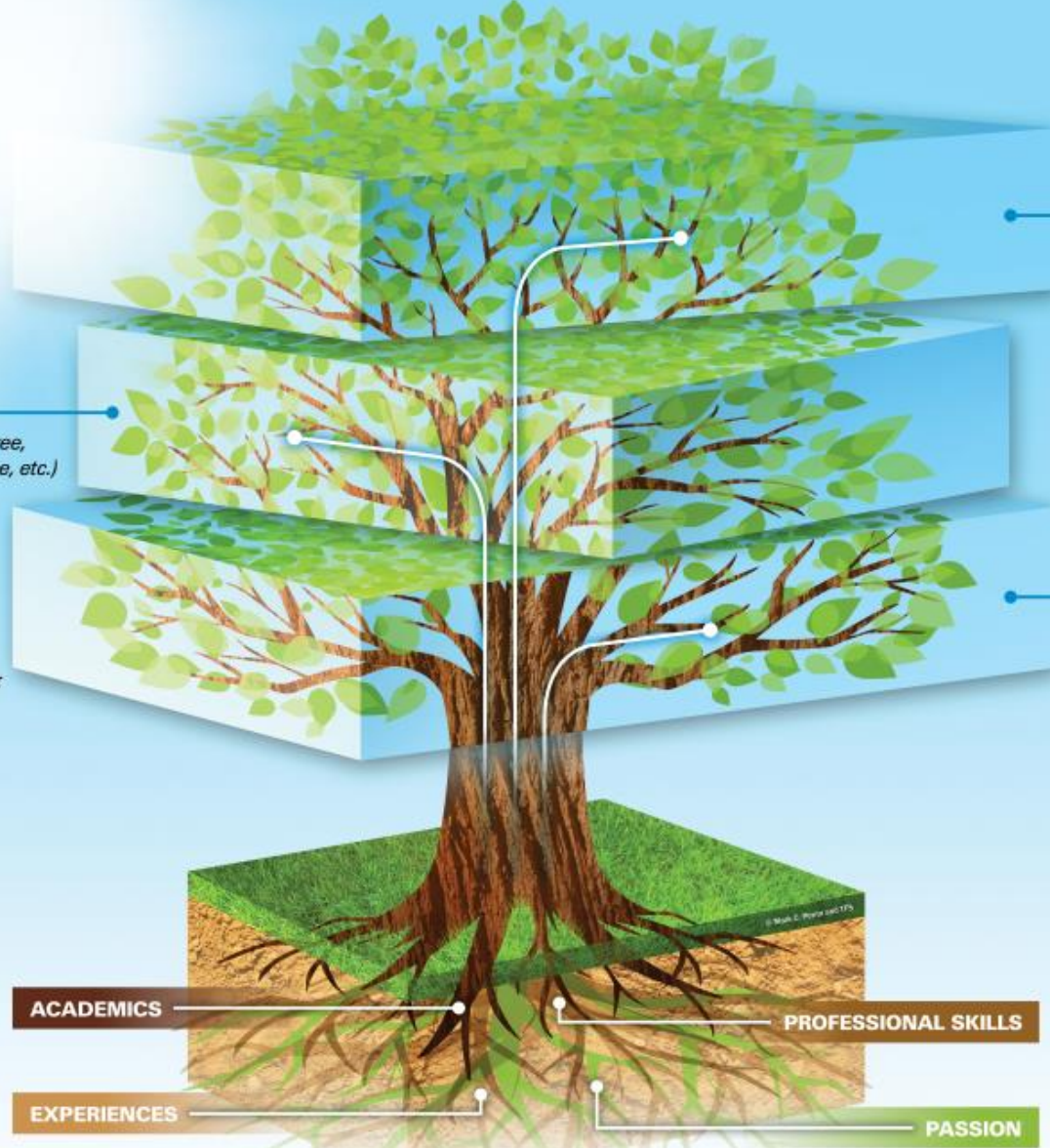
- Adult & Pediatric CPR/First Aid AED
- Naxalone Training Certification

*Certifications may vary by Campus, please see instructor for details.

TECHNICAL CAREERS

(Apprenticeship, Associate's Degree, Advanced Certification, Experience, etc.)

- Sous Chef
- Restaurant Manager
- Food Sales and Marketing Specialists
- Event Coordinator
- Personal Chef
- Food Service Manager
- Food Stylist/Food Photographer
- TV Personalized Chef
- Catering Manager
- Purchasing Agent



PROFESSIONAL CAREERS

(Bachelor's, Master's, Ph.D., Specialized Training, Experience, etc.)

- Executive Chef
- Pastry Chef
- Dietician
- Health Inspector
- Entrepreneur
- Food Critic
- Nutritional Consultant
- Culinary Educator
- Research Chef
- Sommelier

ENTRY-LEVEL CAREERS

(with Program Completion)

- Food Preparation Employee
- Cake Decorator
- Retail Sales Clerk
- Wait Person
- Mixologist
- Cook
- Desk Clerk
- Housekeeping Clerk
- Dishwasher
- Bus Person

CULINARY ARTS AND HOSPITALITY



CULINARY ARTS AND HOSPITALITY

12 Segments:

1. Cost Control and Culinary Math
2. Culinary Core
3. ServSafe and Sanitation
4. Guest Relations
5. Basic Cooking
6. Baking and Pastry
7. Management
8. Marketing and Entrepreneurship
9. Advanced Cooking
10. Garde Manger
11. Sustainability and Nutrition
12. Career and Professional Development

Universal Skills for All Programs:

1. Follow Industry Safety Standards
2. Ability to work both independently and as part of a team
3. Ability to manage time
4. Possess critical thinking and problem solving skills
5. Ability to plan and organize tasks
6. Computer skills
7. Interpersonal communication
8. Work under stress and time constraints
9. Strong work ethic
10. Self- Directed
11. Ability to work in a facilitated learning environment with minimal supervision
12. Ability to work with diverse groups
13. Attention to detail
14. Able to pass a drug screen

Indispensable Skills and Essential Functions:

1. Good personal hygiene
2. Free of TB/Hepatitis C
3. Attain stamina to stand for long periods of time
4. Ability to tolerate noise and extreme heat
5. Ability to learn precision work in a variety of tasks with sharp objects
6. Tool identification, use and memorization
7. Strong interpersonal relations
8. Ability to lift 25-50 pounds
9. Repetitive physical work
10. Ability to multitask
11. Creativity and imagination
12. Eye/Hand/Foot Coordination

Academic Frontloading:

- Functional Math –Ratios, conversions, fractions, Algebra 1
- English 9 and 10
- Foods

National/State Credentialing:

- ServSafe Food Handler
- ServSafe Allergens
- Prostart
- HOSA General Industry, Culinary
- ServSafe Manager
- American Heart Association - Heartsaver CPR AED First Aid
- Customer Service Food Product
- Customer Service Lodging
- Customer Service Travel and Tourism
- ServSafe Responsible Alcohol

*Certifications may vary by Campus, please see instructor for details.



TECHNICAL CAREERS

(Apprenticeship, Associate's Degree, Advanced Certification, Experience, etc.)

- Network Administrator
- Data Recovery Planner
- Systems Administrator
- Cyber Security Consultant
- Cyber Threat Analyst
- Cyber Security Technician
- Digital Forensics Technician
- Information Security Analyst

PROFESSIONAL CAREERS

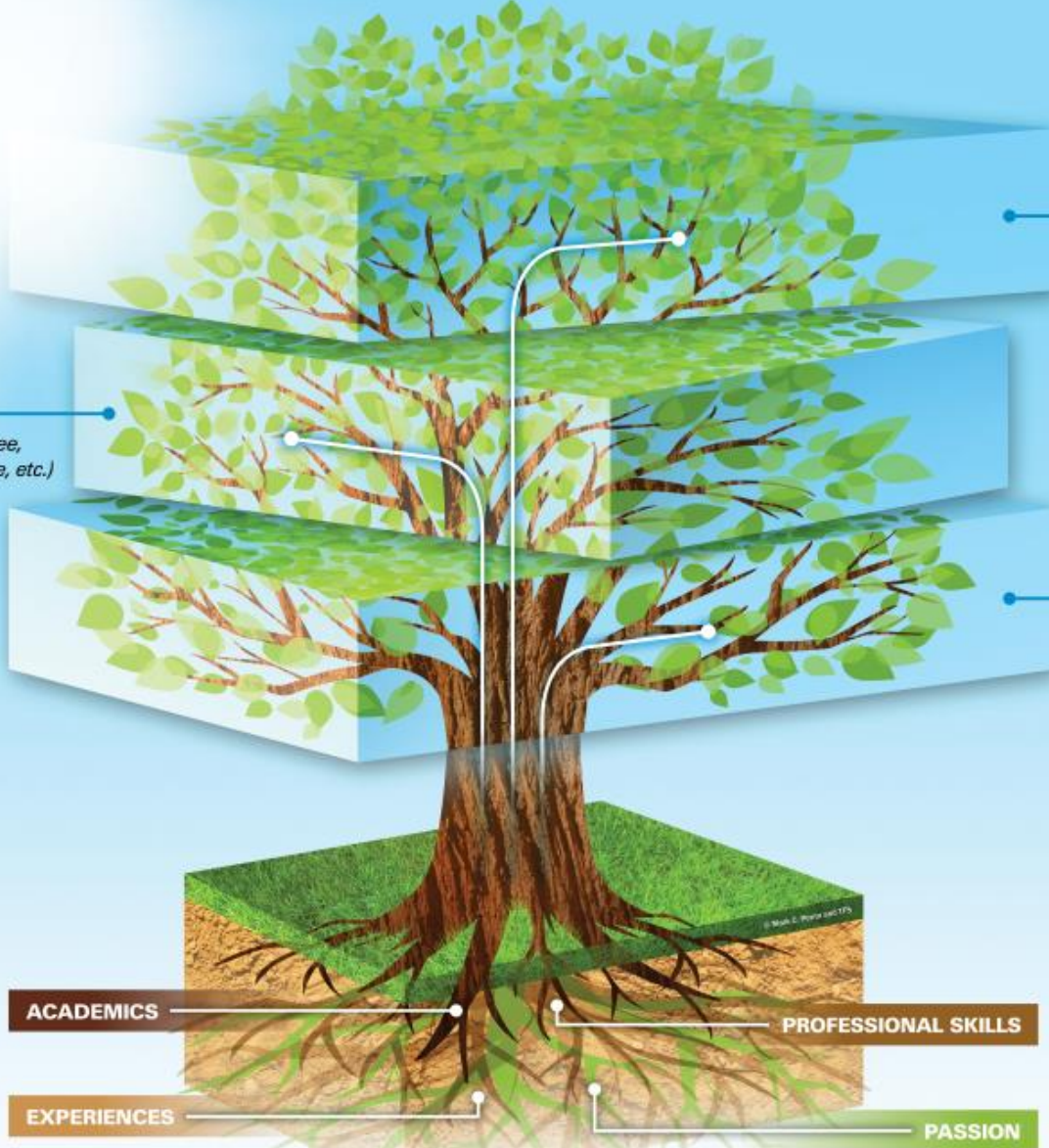
(Bachelor's, Master's, Ph.D., Specialized Training, Experience, etc.)

- Chief Information Security Officer
- Chief Technology Officer
- Director of Cyber Risk Management
- Cyber Security Engineer
- Information Technology Manager
- Educator-High School
- Director of Computer Forensics
- Homeland Security Agent
- Information Security Director
- FBI Forensic Investigator
- Network Engineer
- College Professor

ENTRY-LEVEL CAREERS

(with Program Completion)

- Entry Level Network Technician
- Computer Security Specialist
- Entry Level Systems Administrator
- Network Specialist
- Information Technology Specialist
- Penetration Tester
- Help Desk Analyst
- Computer Forensics Examiner



CYBER SECURITY



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CYBERSECURITY

12 Segments

1. Principals of Information Security
2. Strategic Infrastructure
3. Perimeter Defense
4. Computer Forensics
5. Safety Procedures
6. Operational Procedures
7. Personal Skills and Ethics
8. Network Management and Design
9. Law and Regulations
10. Teamwork and Leadership
11. Career Ready Practices
12. Computer Hardware & Software Tools

Universal Skills for All Programs:

1. Follow Industry Safety Standards
2. Ability to work both independently and as part of a team
3. Ability to manage time
4. Possess critical thinking and problem solving skills
5. Ability to plan and organize tasks
6. Computer skills
7. Interpersonal communication
8. Work under stress and time constraints
9. Strong work ethic
10. Self- Directed
11. Ability to work in a facilitated learning environment
12. with minimal supervision
13. Ability to work with diverse groups
14. Attention to detail
15. Able to pass a drug screen

Indispensable Skills and Essential Functions:

1. Computer literate
2. Attain keyboarding of 35 WPM
3. Diagnose and perform computer repairs
4. Ability to multitask
5. Motor Coordination/Finger Dexterity
6. Spatial/Form Perception
7. Ability to participate in public speaking events
8. Employ technological tools to expedite workflow
9. Familiarity with related software
10. Ability to lift 25-50 pounds

Academic Frontloading:

- English
- Algebra I and II

National/State Credentialing:

- CEH - Certified Ethical Hacker
- CHFI - Certified Computer Hacking Forensic Investigator
- CompTIA Security+
- Microsoft Technology Associate Networking Fundamentals
- CompTIA Network+
- CompTIA Linux+
- Palo Alto Networks Certified Cybersecurity Associate (PCCSA)
- Microsoft Technology Associate Security Fundamentals
- Microsoft Technology Associate Windows Server Administration Fundamentals
- Microsoft Technology Associate Windows Operating System Fundamentals
- CompTIA IT Fundamentals
- CompTIA A+

*Certifications may vary by Campus, please see instructor for details.

TECHNICAL CAREERS

(Apprenticeship, Associate's Degree, Advanced Certification, Experience, etc.)

- Journeyman/Master Tradesman
- Electrician
- Line Worker
- Pipefitter
- Gas Pipeline Technician
- Service Technician
- Substation Technician
- Power Plan Operator
- Electromechanical Technician
- Wind Turbine Technician
- Solar Energy Technician
- Business Owner

PROFESSIONAL CAREERS

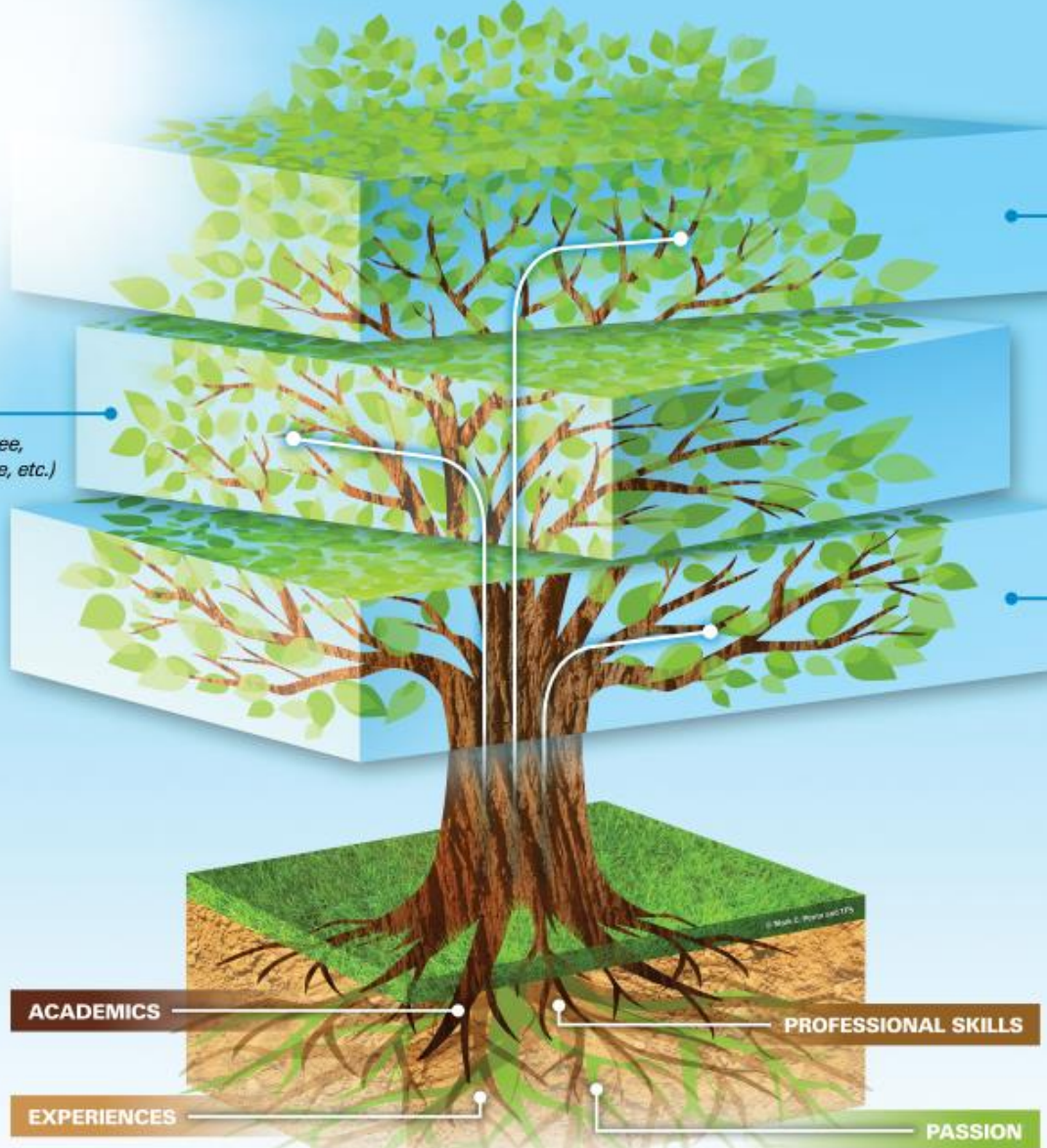
(Bachelor's, Master's, Ph.D., Specialized Training, Experience, etc.)

- Project Manager
- Utility Supervisor
- Generation/Operations Supervisor
- Electrical/Energy System Designer
- Electrical Engineer
- Pipeline Engineer
- Hydrologist
- Health and Safety Engineer
- Trades Instructor

ENTRY-LEVEL CAREERS

(with Program Completion)

- Apprentice Tradesman
- Cable Television Installer
- Fire/Security System Installer
- Customer Service Representative
- Material and Equipment Estimator
- Power System Dispatcher
- Electric Meter Technician



ENERGY and ELECTRICAL TECHNOLOGIES

12 Segments:

1. Safety, Tools, Electrical Theory
2. Explain the Federal, State, and Local Code Regulations
3. Utilizing Residential Conductors, Cables & Boxes
4. Utilizing Testing / Electrical Test Equipment
5. Utilizing Industrial/Commercial Conduit, Raceways Boxes & Fittings
6. Install & Maintain Lighting & Luminaries
7. Panel Board, Switch Boards, and Overcurrent Protection
8. Grounding
9. Blueprint and Project Management
10. Transformers
11. Voice/Data/T.V. Signaling Systems
12. Motors, Motor Controls

Universal Skills for All Programs:

1. Follow Industry Safety Standards
2. Ability to work both independently and as part of a team
3. Ability to manage time
4. Possess critical thinking and problem solving skills
5. Ability to plan and organize tasks
6. Computer skills
7. Interpersonal communication
8. Work under stress and time constraints
9. Strong work ethic
10. Self- Directed
11. Ability to work in a facilitated learning environment
12. with minimal supervision
13. Ability to work with diverse groups
14. Attention to detail
15. Able to pass a drug screen

Indispensable Skills and Essential Functions:

1. Mechanical aptitudes/abilities
2. Tool and machine identification, use and memorization
3. Attain stamina to stand for long periods of time, along with bending and crouching
4. Work with loud, hazardous motors and machines
5. Ability to learn precision work in a variety of tasks with sharp objects
6. Ability to interpret technical instructions in mathematical and diagrammatic form
7. Eye/Hand/Foot Coordination
8. Ability to visually identify colors
9. Ability to lift 50-100 pounds
10. Ability to tolerate vibrations
11. Ability to tolerate exposure to magnetic fields
12. Ability to work in small, confined space

Academic Frontloading:

- Math: Basic Algebra, Geometry, Arithmetic, Fractions, Reciprocals, Scientific Notation, Measurement, Ratios, Percentages, Tables, Graphs
- Science: Physics

National/State Credentialing:

- OSHA 10 Hour Safety
- Energy Industry Fundamentals
- Heart Saver/CPR/First Aid

*Certifications may vary by Campus, please see instructor for details.



TECHNICAL CAREERS

(Apprenticeship, Associate's Degree, Advanced Certification, Experience, etc.)

- Engineering Technician
- Controls Designer
- Electro-Mechanical Technician
- Quality Control Technician
- Robotics Technician
- Mechatronics Technician

PROFESSIONAL CAREERS

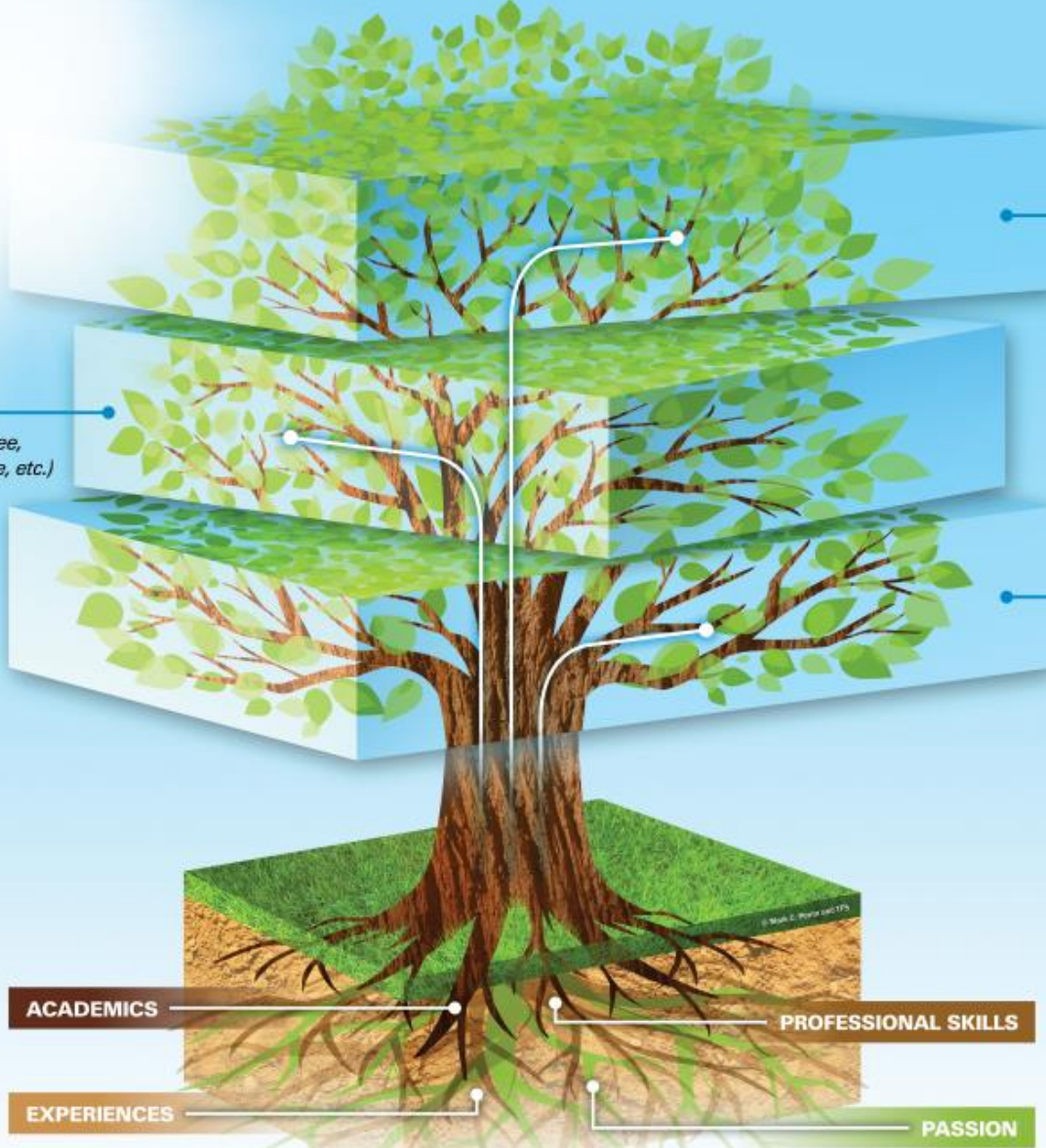
(Bachelor's, Master's, Ph.D., Specialized Training, Experience, etc.)

- Electrical Engineer
- Design Engineer
- Mechanical Engineer
- Process Engineer
- Electronics Engineer
- Automation/Robotics Engineer
- Mechatronics Engineer
- Automotive Engineer
- Biochemical Engineer
- Engineering Manager

ENTRY-LEVEL CAREERS

(with Program Completion)

- Mechanical CAD Technician
- Robotics Technician
- Mechatronics Technician
- Manufacturing Technician
- Fluid Power Technician
- Industrial Electrical Technician
- CNC Machinist



ENGINEERING, ROBOTICS & MECHATRONICS



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ENGINEERING, ROBOTICS, AND MECHATRONICS

12 Segments

1. Systems Integration/Mechatronics
2. System Design/Prototype/CADD
3. Electrical /Motor Controls/VFD/Servo/Sensor Driven
4. Mechanical
5. Control Systems/Electrical controls
6. PLC/Diagnostics
7. Fluid Power/Pneumatics
8. Robotics
9. Electronics/Sensors
10. Manufacturing/Machining/CNC
11. Quality/Measurements
12. Blueprint/Schematics/Drafting

Universal Skills for All Programs:

1. Follow Industry Safety Standards
2. Ability to work both independently and as part of a team
3. Ability to manage time
4. Possess critical thinking and problem solving skills
5. Ability to plan and organize tasks
6. Computer skills
7. Interpersonal communication
8. Work under stress and time constraints
9. Strong work ethic
10. Self- Directed
11. Ability to work in a facilitated learning environment with minimal supervision
12. Ability to work with diverse groups
13. Attention to detail
14. Able to pass a drug screen

Academic Frontloading:

- Applied Math, Reading and Writing Skills
- Computer problem solving and industrial/technology skills
- Algebra 1 and 2
- Geometry
- Drafting

Indispensable Skills and Essential Functions:

1. Mechanical aptitudes/abilities
2. Tool and machine identification, use and memorization
3. Attain stamina to stand for long periods of time
4. Work with loud, hazardous motors and machines
5. Ability to learn precision work in a variety of tasks with sharp objects
6. Ability to interpret technical instructions in mathematical and diagrammatic form
7. Eye/Hand/Foot Coordination
8. Ability to lift 50-100 pounds
9. Ability to tolerate vibrations
10. Ability to tolerate exposure to magnetic fields
11. Ability to tolerate extremes of heat and sparks

National/State Credentialing:

- ASBE - CATIA v5 Assembly Design
- ASBE - CATIA v5 Generative Draft
- ASBE - CATIA v5 GSD1 Wire/Surf
- ASBE - CATIA v5 Part Design
- Fanuc Robotics 4
- ISCET - AC Certification 3
- ISCET - DC Certification 2
- ISCET - Digital Electronics Certification
- ISCET - Semi-Conductors Certification
- Career Safe, OSHA 10 General Industry
- PMMI Fluid Power - 1
- PMMI Industrial Electricity - 1
- PMMI Industrial Electricity - 2
- PMMI Mechanical Components - 1
- PMMI Motor and Motor Controls - 1
- PMMI Programmable Logic Controllers - 1
- PMMI Programmable Logic Controllers - 2
- Certified Solidworks Associate 5
- Certified Solidworks Professional
- Career Safe, OSHA 10 General Industry (Manufacturing)

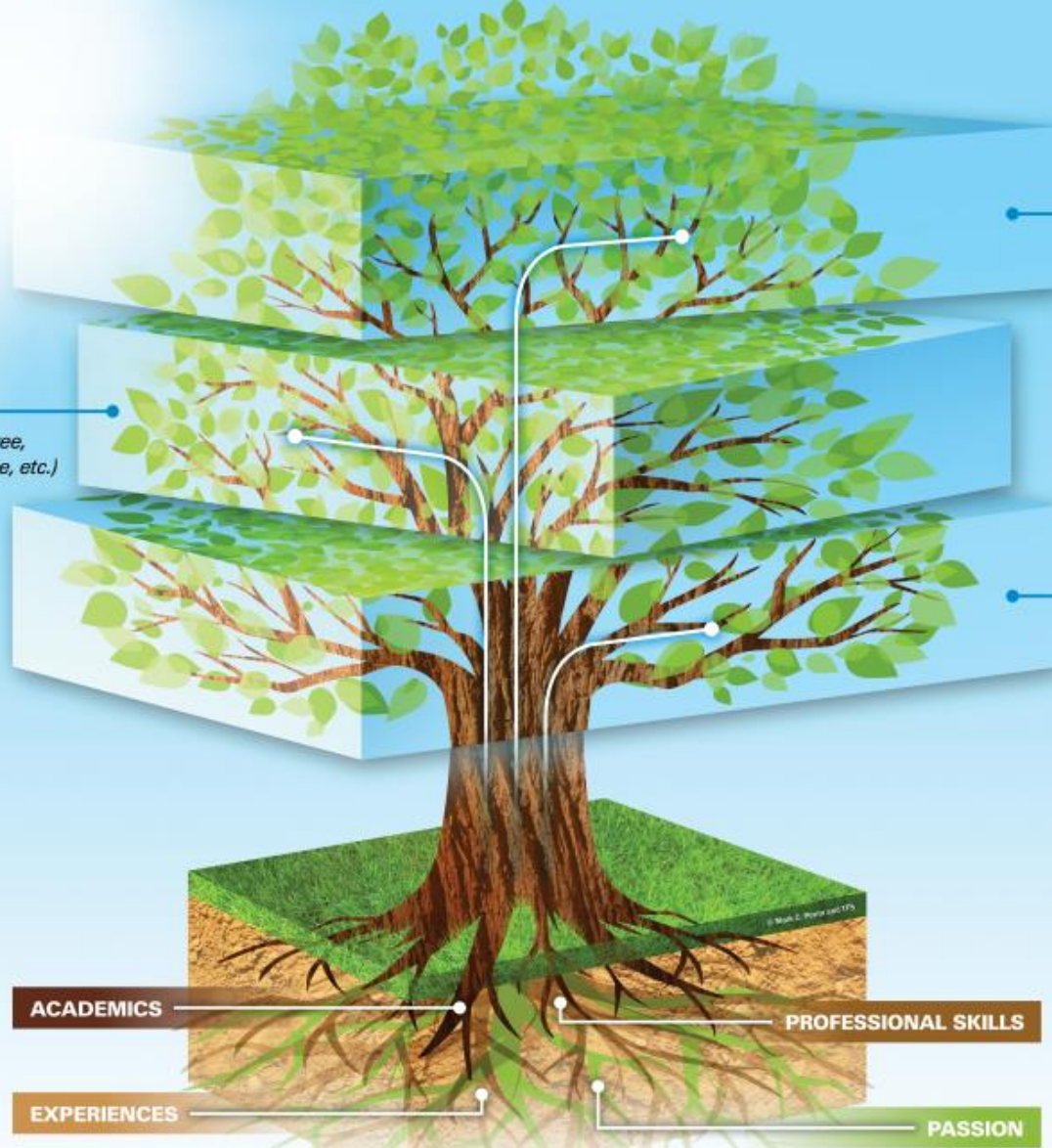
*Certifications may vary by Campus, please see instructor for details.



TECHNICAL CAREERS

(Apprenticeship, Associate's Degree, Advanced Certification, Experience, etc.)

- Business Owner
- Sales Supervisor
- Administrative Director
- General Manager
- Executive Assistant
- Management Trainee
- Entrepreneur
- Social Media Coordinator



PROFESSIONAL CAREERS

(Bachelor's, Master's, Ph.D., Specialized Training, Experience, etc.)

- Senior Manager/Executive Officer
- Medical and Health Services Manager
- Public Relations Manager
- Sales and Marketing Manager
- Operations Manager
- Public Relations Manager
- Management Analyst
- Entrepreneur
- Business and Development Manager
- Market Research Account Manager

ENTRY-LEVEL CAREERS

(with Program Completion)

- Owner/Entrepreneur
- Marketing Assistant
- Multimedia Marketing Associate
- Sales Associate
- Customer Service Representative

ENTREPRENEURSHIP AND ADVANCED MARKETING



ENTREPRENEURSHIP AND ADVANCED MARKETING

12 Segments:

1. Functions / Foundations of Marketing
2. Selling
3. Promotion and Social Media
4. Pricing
5. Financial Analysis
6. Channel Management
7. Entrepreneurship, Risk Management and Operations
8. Marketing Information Management
9. Strategic Market Planning
10. Product Service Planning
11. Human Resources, Management and Careers
12. Economics

Universal Skills for All Programs:

1. Follow Industry Safety Standards
2. Ability to work both independently and as part of a team
3. Ability to manage time
4. Possess critical thinking and problem solving skills
5. Ability to plan and organize tasks
6. Computer skills
7. Interpersonal communication
8. Work under stress and time constraints
9. Strong work ethic
10. Self- Directed
11. Ability to work in a facilitated learning environment with minimal supervision
12. Ability to work with diverse groups
13. Attention to detail
14. Able to pass a drug screen

Indispensable Skills and Essential Functions:

1. Computer literate
2. Attain keyboarding of 35 WPM
3. Diagnose and perform computer repairs
4. Ability to multitask
5. Motor Coordination/Finger Dexterity
6. Spatial/Form Perception
7. Ability to participate in public speaking events
8. Employ technological tools to expedite workflow
9. Familiarity with related software
10. Ability to lift 25-50 pounds

Academic Frontloading:

- Algebra 1, English 9 and 10
- Financial Literacy, Business Management

National/State Credentialing:

- Adobe Certified Associate After Effects
- Adobe Certified Associate Dreamweaver
- Adobe Certified Associate Fireworks
- Adobe Certified Associate Flash
- Adobe Certified Associate InDesign
- Adobe Certified Associate Photoshop
- Adobe Certified Associate Premiere
- Certiport - Entrepreneurship and Small Business
- Google AdWords Fundamentals
- Google AdWords Mobile
- Google Analytics
- Google Display Advertising
- Google Search Advertising
- Google Shopping Advertising
- Google Video Advertising
- Michigan Real Estate License
- Microsoft Office Specialist Access
- Microsoft Office Specialist Excel
- Microsoft Office Specialist Excel Expert
- Microsoft Office Specialist Master Certification
- Microsoft Office Specialist Outlook
- Microsoft Office Specialist PowerPoint
- Microsoft Office Specialist Word
- Microsoft Office Specialist Word Expert
- NRF - Advanced Customer Service and Sales
- NRF - Customer Service and Sales
- NRF - Retail Industry Fundamentals

*Certifications may vary by Campus, please see instructor for details.

TECHNICAL CAREERS

(Apprenticeship, Associate's Degree, Advanced Certification, Experience, etc.)

- Medical Lab Assistant
- Certified Medical Assistant
- Sonographer
- EMT/Paramedic
- Registered Nurse
- Surgical Technician
- Registered Dental Hygienist
- Respiratory Therapist
- Physical/Occupational Therapy Assistant
- Optometry Technician

PROFESSIONAL CAREERS

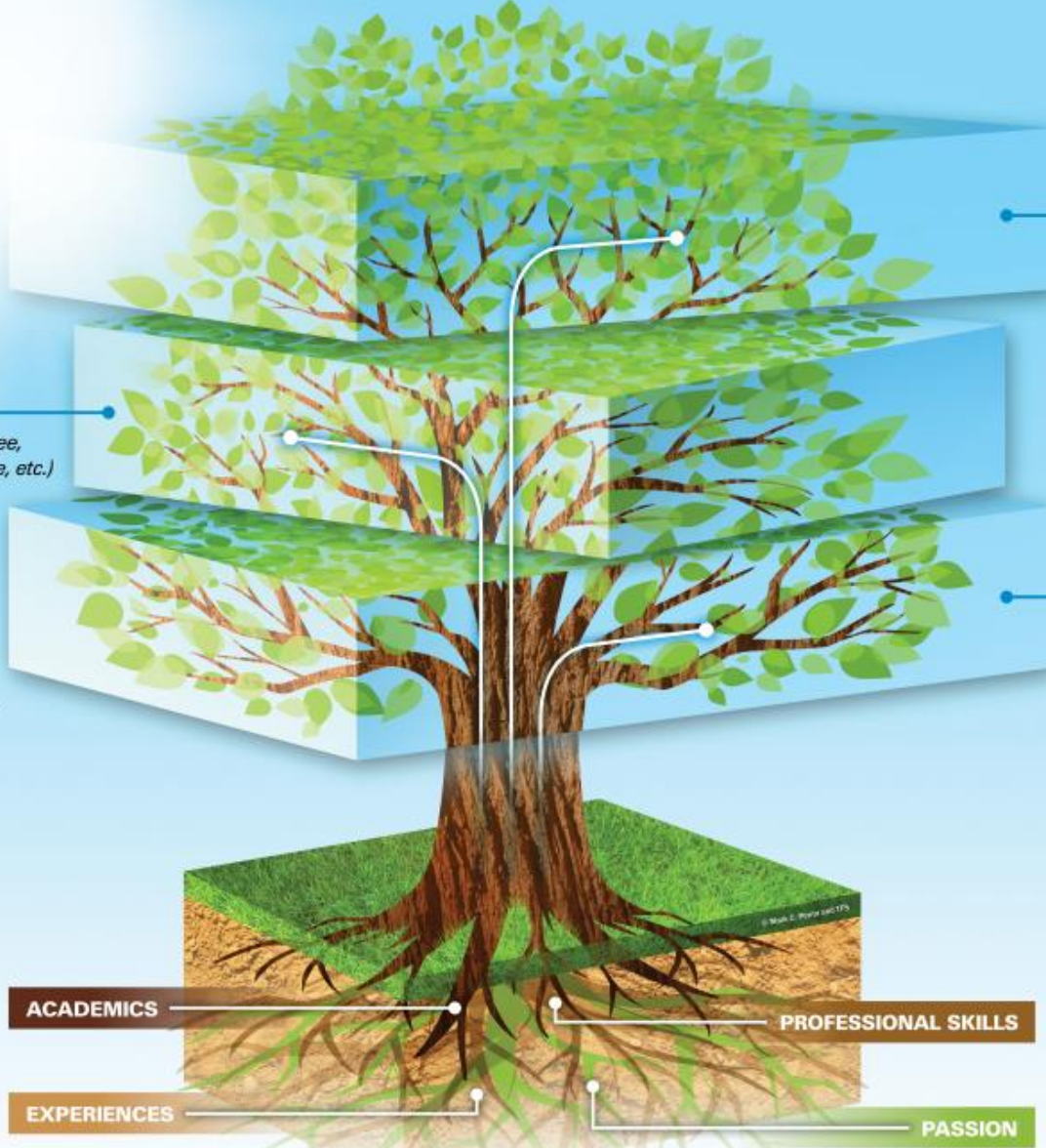
(Bachelor's, Master's, Ph.D., Specialized Training, Experience, etc.)

- Athletic Trainer
- Dentist
- Optometrist
- Medical Lab Technologist
- Forensic Scientist
- Pharmacist
- Physical/Occupational Therapist
- Speech/Language Therapist
- Registered Nurse
- Physician Assistant
- Physician

ENTRY-LEVEL CAREERS

(with Program Completion)

- Medical Assistant
- Emergency Medical Technician
- Pharmacy Technician
- Patient Care Technician
- Certified Nurse Aide
- Dental Assistant
- Optical Technician
- Physical/Occupation Therapy Aide
- Health Unit Coordinator
- Phlebotomist



HEALTH SCIENCES



HEALTH SCIENCE

12 Segments:

1. Anatomy and Physiology
2. Legal Responsibilities
3. Infection Control
4. Client Status
5. Workplace Safety
6. Healthcare Delivery Systems
7. Ethics
8. Clinical Skills
9. Wellness
10. Healthcare Communications and Terminology
11. Health Informatics and Technology
12. Career Readiness

Universal Skills for All Programs:

1. Follow Industry Safety Standards
2. Ability to work both independently and as part of a team
3. Ability to manage time
4. Possess critical thinking and problem solving skills
5. Ability to plan and organize tasks
6. Computer skills
7. Interpersonal communication
8. Work under stress and time constraints
9. Strong work ethic
10. Self- Directed
11. Ability to work in a facilitated learning environment with minimal supervision
12. Ability to work with diverse groups
13. Attention to detail
14. Able to pass a drug screen

Indispensable Skills and Essential Functions:

1. Ability to pass TB test
2. Crime free as outlined by Public Act 27.28 and 29 in (2006)
3. Ability to lift 50-100 pounds
4. Nicotine Free
5. Sterile procedures and infection control
6. Good personal hygiene
7. Ability to use medical and diagnostic equipment
8. Caring and empathetic
9. Ability to memorize and apply information
10. Attain stamina to stand for long periods of time
11. Ability to apply scientific method

Academic Frontloading:

- Biology
- English 9 and 10
- Math-Algebra 1 and computer knowledge

National/ State Credentialing:

- American Heart Association - Bloodborne Pathogens
- American Heart Association - BLS Healthcare Provider CPR
- American Heart Association - Heartsaver/CPR/AED/First Aid
- American Red Cross - Emergency Responder
- CPCT/A Certified Patient Care Technician/Assistant
- Emergency Medical Responder
- Emergency Medical Technician
- MI - Certified Nurse Aide
- NASM Personal Trainer
- OSHA 10

*Certifications may vary by Campus, please see instructor for details.

TECHNICAL CAREERS

(Apprenticeship, Associate's Degree, Advanced Certification, Experience, etc.)

- CNC Programmer
- Machinist
- Tool and Die Maker
- Metal Model Maker
- CNC Machinist
- CMM Technician
- Laser Cutter Technician

PROFESSIONAL CAREERS

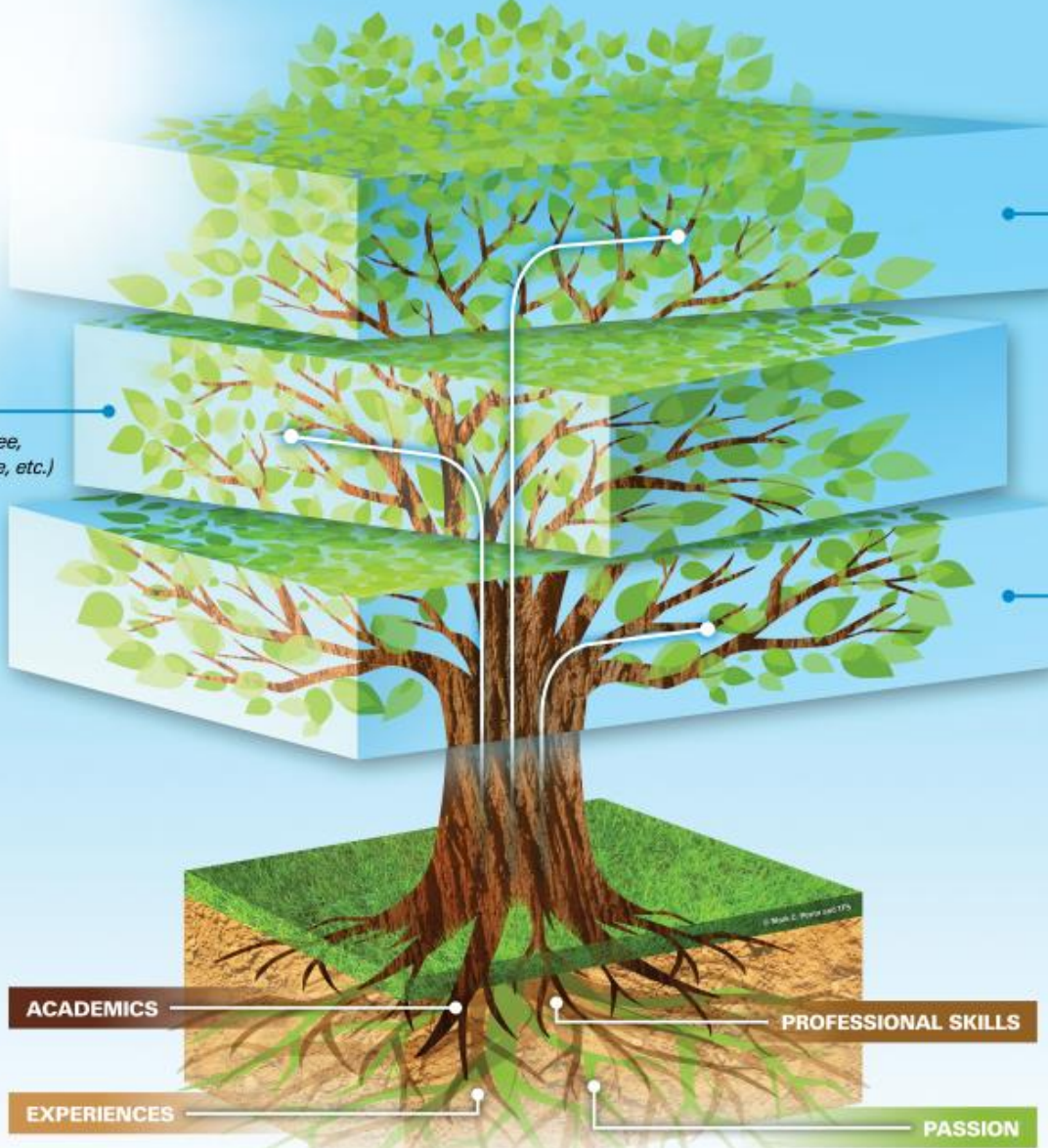
(Bachelor's, Master's, Ph.D., Specialized Training, Experience, etc.)

- CNC Manufacturing Engineer
- CNC Applications Engineer
- Mechanical Engineer
- Process Engineer
- Plant Manager
- Machining Instructor

ENTRY-LEVEL CAREERS

(with Program Completion)

- CNC Operator
- Machinist
- Manual Machine Tool Operator
- CNC Programmer
- CNC Setup Handler



MACHINING



MACHINING

12 Segments

1. Safety
2. Metal Working Theory / Materials
3. Inspection and Measurement
4. Print Reading and GD&T
5. Benchwork
6. Occupational Skills / Work Habits
7. Saws, Drills and Power Tools
8. Maintenance and Set Up
9. Mill I / Lathe I
10. Manufacturing Processes
11. Advanced Milling / Turning / Grinding
12. CNC / CAD / CAM

Universal Skills for All Programs:

1. Follow Industry Safety Standards
2. Ability to work both independently and as part of a team
3. Ability to manage time
4. Possess critical thinking and problem solving skills
5. Ability to plan and organize tasks
6. Computer skills
7. Interpersonal communication
8. Work under stress and time constraints
9. Strong work ethic
10. Self- Directed
11. Ability to work in a facilitated learning environment with minimal supervision
12. Ability to work with diverse groups
13. Attention to detail
14. Able to pass a drug screen

Indispensable Skills and Essential Functions:

1. Mechanical aptitudes/abilities
2. Tool and machine identification, use and memorization
3. Attain stamina to stand for long periods of time
4. Work with loud, hazardous motors and machines
5. Ability to learn precision work in a variety of tasks with sharp objects
6. Ability to interpret technical instructions in mathematical and diagrammatic form
7. Eye/Hand/Foot Coordination
8. Ability to lift 50-100 pounds
9. Ability to tolerate vibrations
10. Ability to tolerate exposure to magnetic fields
11. Ability to tolerate extremes of heat and sparks

Academic Frontloading:

- Applied Math, Reading and Writing Skills
- Computer problem solving and industrial/technology skills
- Algebra 1 and 2
- Geometry

State/National Credentialing:

- Career Safe, OSHA 10 General Industry
- Career-Safe, OSHA 10 General Industry (Manufacturing)
- NIMS - Measurement, Materials & Safety
- NIMS - Drill Press 1
- NIMS - Milling 1
- HAAS - CNC Lathe Operator
- HAAS - CNC Lathe Programmer
- HAAS - CNC Mill Operator
- HAAS - CNC Programmer Mill
- NIMS - Job Planning, Benchwork & Layout
- NIMS - Turning I (Between Centers)
- NIMS - Turning I (Chucking)
- NIMS - CNC Lathe Operations
- NIMS - CNC Lathe Programming Setup & Operations
- NIMS - CNC Mill Operations
- NIMS - CNC Milling Programming Setup & Operations

*Certifications may vary by Campus, please see instructor for details.

TECHNICAL CAREERS

(Apprenticeship, Associate's Degree, Advanced Certification, Experience, etc.)

- Instructional Technician
- Parts Manager
- Service Manager
- Technical Support Technician
- Service Technician
- Diesel Engine Technician
- Electrical/Electronic Technician
- Preventative Maintenance Technician
- Fleet Manager

PROFESSIONAL CAREERS

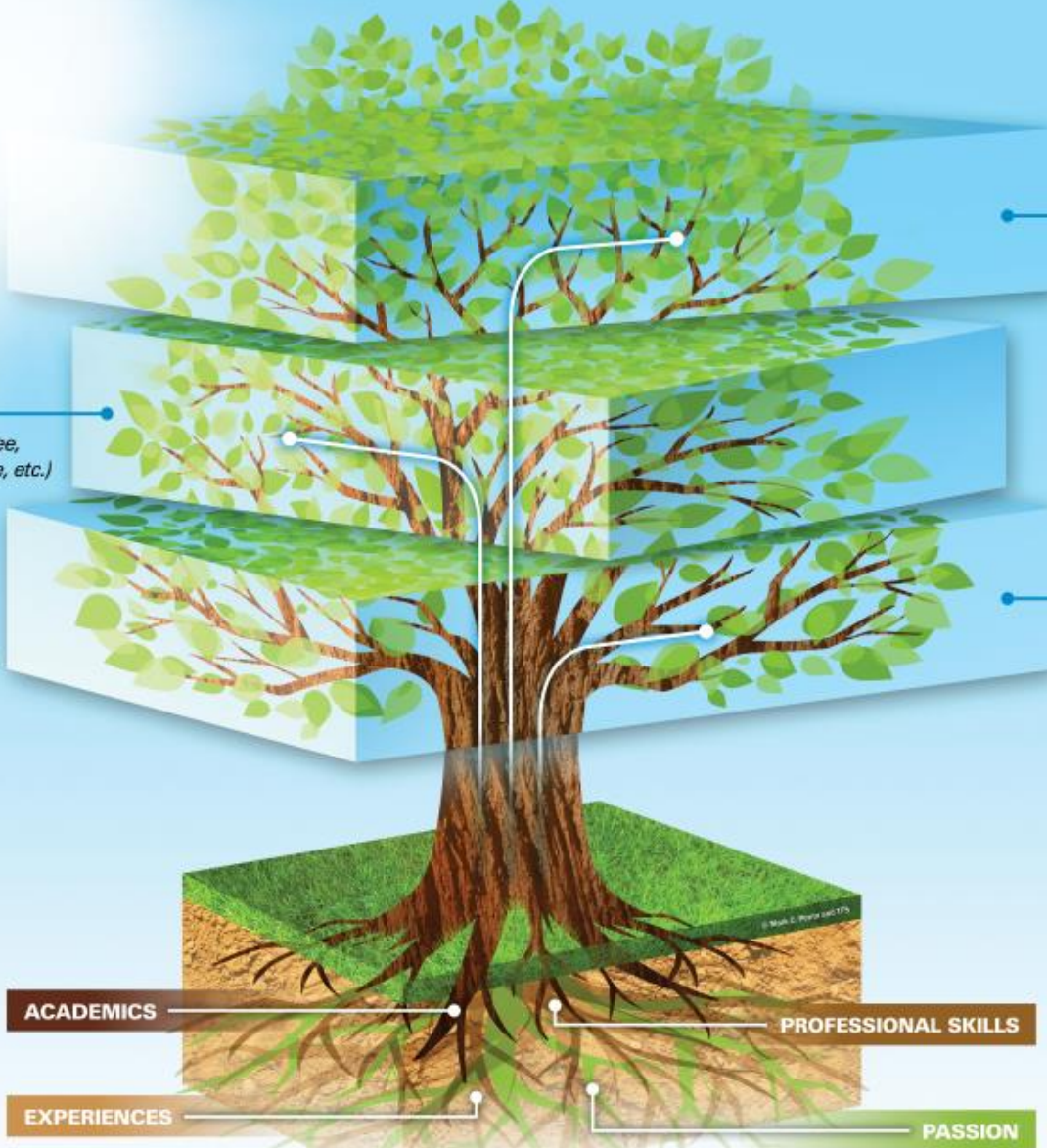
(Bachelor's, Master's, Ph.D., Specialized Training, Experience, etc.)

- Automotive Manager/Owner
- Business Manager
- Design Engineer
- Mechanical Engineer
- Equipment Manufacturer Training Specialist
- Diesel Technology Educator
- Heavy Equipment Service Engineer

ENTRY-LEVEL CAREERS

(with Program Completion)

- Heavy Equipment Technician
- Heavy Truck Technician
- Heavy Equipment Operator
- Truck Driver
- Agricultural Equipment Technician



MEDIUM HEAVY TRUCK AND EQUIPMENT



MEDIUM/HEAVY TRUCK AND EQUIPMENT

12 Segments:

1. Shop practice and Safety
2. Management / Technology
3. Leadership and Employability Skills
4. Electrical Safety and Fundamental
5. Batteries Cranking and Charging Systems
6. Chassis Electrical and Wiring Systems
7. Computer Control and Monitoring Systems
8. Diesel Engine Fundamentals Safety
9. Diesel Engine Support Systems and Controls
10. Diesel Fuel Systems and Controls
11. Cylinder Head and Valve Train
12. Engine Blocks

Universal Skills for All Programs:

1. Follow Industry Safety Standards
2. Ability to work both independently and as part of a team
3. Ability to manage time
4. Possess critical thinking and problem solving skills
5. Ability to plan and organize tasks
6. Computer skills
7. Interpersonal communication
8. Work under stress and time constraints
9. Strong work ethic
10. Self- Directed
11. Ability to work in a facilitated learning environment with minimal supervision
12. Ability to work with diverse groups
13. Attention to detail
14. Able to pass a drug screen

Indispensable Skills and Essential Functions:

1. Ability to use diagnostic equipment
2. Exposure to fumes
3. Work under cars and hydraulic lifts
4. Attain stamina to stand for long periods of time
5. Attain driver's license
6. Ability to lift 50-100 pounds
7. Mechanical aptitudes/abilities
8. Tool and machine naming, use and memorization
9. Willing to do dirty jobs
10. Eye/Hand/Foot Coordination
11. Ability to follow step by step procedures

Academic Frontloading:

- Automotive Course

National/State Credentialing:

- MIHDT Electrical Systems
- MIHDT Brakes
- MIHDT Suspension and Steering Systems
- MIHDT Engine Repair Diesel
- MIHDT Engine Repair Gasoline
- MIHDT HDT Drivetrain
- Career Safe, OSHA 10 General Industry
- MIHDT Commercial Driver's License
- Customer Service and Sales 1
- Advanced Customer Service and Sales 2
- Autolift Institute
- ASE - Electrical/Electronic Systems
- ASE - Inspection Maintenance
- ASE - Steering & Suspensions
- ASE - Brakes
- ASE - Diesel Engines

*Certifications may vary by Campus, please see instructor for details.

TECHNICAL CAREERS

(Apprenticeship, Associate's Degree, Advanced Certification, Experience, etc.)

- Graphic Designer
- Press Operator
- Pre-Press System Operator
- Sales Representative
- Motion Graphics Designer
- Web Designer
- Digital Video Designer
- Film and Video Editor
- Photographer

PROFESSIONAL CAREERS

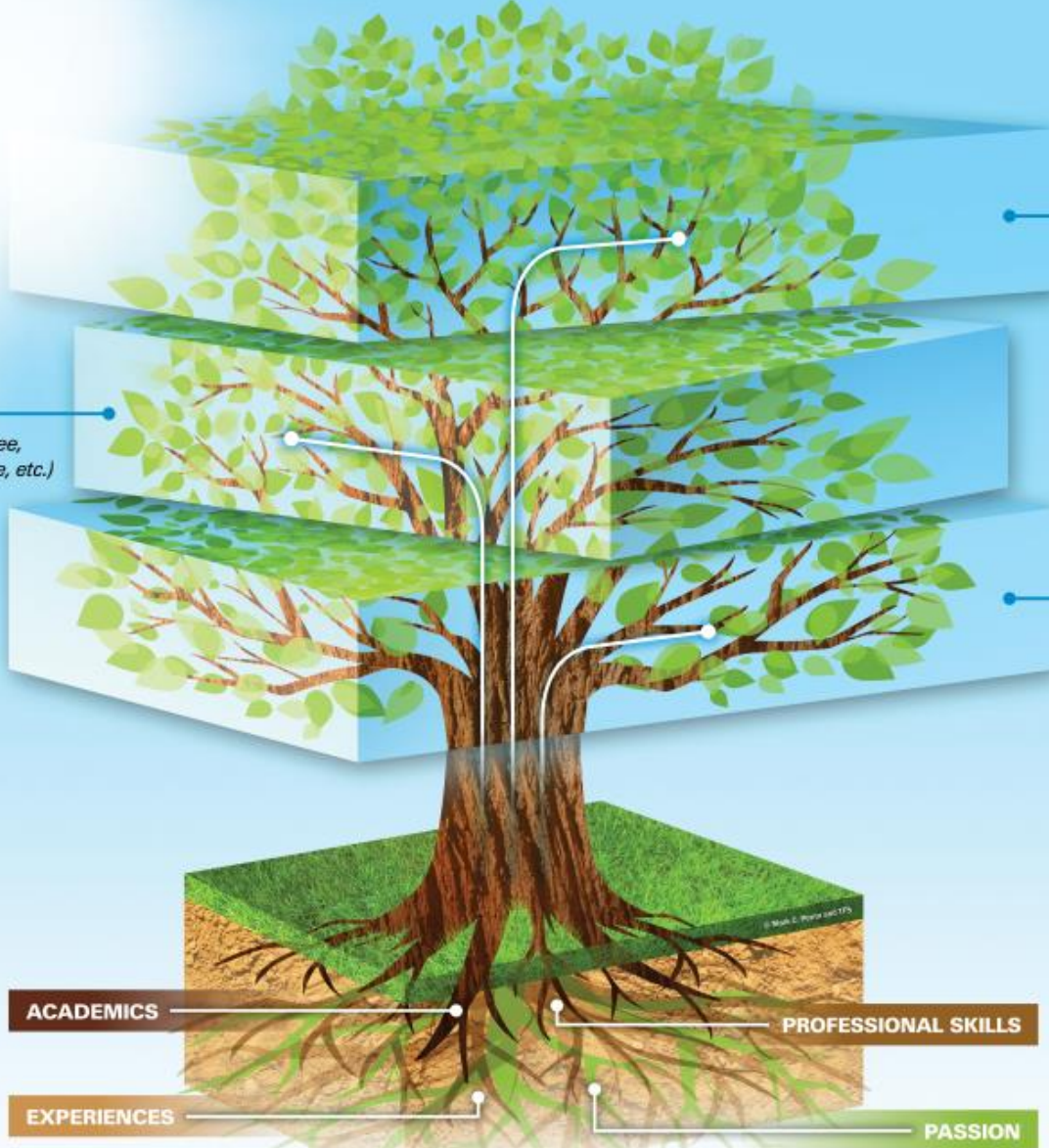
(Bachelor's, Master's, Ph.D., Specialized Training, Experience, etc.)

- Art Director
- Illustrator
- Animator
- Production Manager
- Web Designer
- Printing Department Manager
- Video Game Designer
- Mobile Media Designer
- Product Designer
- Film Maker

ENTRY-LEVEL CAREERS

(with Program Completion)

- Screen Printer
- Imaging Equipment Operator
- Finishing and Binder Operator
- Customer Service Representative
- Press System Operator
- Camera and Film Operator



VISUAL IMAGING



VISUAL IMAGING

12 Segments:

1. Industry Overview
2. Safety and Health
3. Intro to design and image development
4. Introduction to image output
5. Introduction to finishing operations
6. Employability skills and portfolio
7. Applied academics
8. New Media, Advanced Design Image
9. Leadership
10. Advanced image output
11. Advanced finishing operation
12. Project Management

Universal Skills for All Programs:

1. Follow Industry Safety Standards
2. Ability to work both independently and as part of a team
3. Ability to manage time
4. Possess critical thinking and problem solving skills
5. Ability to plan and organize tasks
6. Computer skills
7. Interpersonal communication
8. Work under stress and time constraints
9. Strong work ethic
10. Self- Directed
11. Ability to work in a facilitated learning environment with minimal supervision
12. Ability to work with diverse groups
13. Attention to detail
14. Able to pass a drug screen

Indispensable Skills and Essential Functions:

1. Computer literate
2. Creative and artistic aptitude/ability
3. Familiarity with related software
4. Color/Form Perception
5. Attention to pictorial detail
6. Ability to lift 25-50 pounds
7. Basic drawing skills
8. Eye/Hand Coordination
9. Spatial/Form Perception
10. Employ technological tools to expedite workflow
11. Possess basic design skills

Academic Frontloading:

- Art

National/State Credentialing:

- Illustrator Adobe Certified Associate Illustrator
- Adobe Photoshop Adobe Certified Associate Photoshop
- Adobe InDesign Adobe Certified Associate InDesign
- Adobe Premiere Adobe Certified Associate Premiere
- Screen Printing, Introduction Precision
- Design and Visual Communications Precision
- Commercial and advertising art Precision
- Graphic Communications Introduction Precision
- Graphic Communications Intermediate Precision
- Graphic Communications Advanced Precision
- Digital Print Design Precision
- Digital Media IA Precision
- Digital Media 1B Precision
- Digital Media II Precision
- Desktop Publishing I Precision
- Desktop Publishing II Precision
- Business Web Page Design Precision
- Basic Digital Photography Precision
- Video Production Precision
- 3D Graphics Precision

*Certifications may vary by Campus, please see instructor for details.

TECHNICAL CAREERS

(Apprenticeship, Associate's Degree, Advanced Certification, Experience, etc.)

- AAS Welding Technician
- Maintenance Welder
- Tool and Die Welder
- Welding Equipment Repair Technician
- Welding Technician
- Laser Welding Technician
- Pipe Fitter
- Metal Fabricator

PROFESSIONAL CAREERS

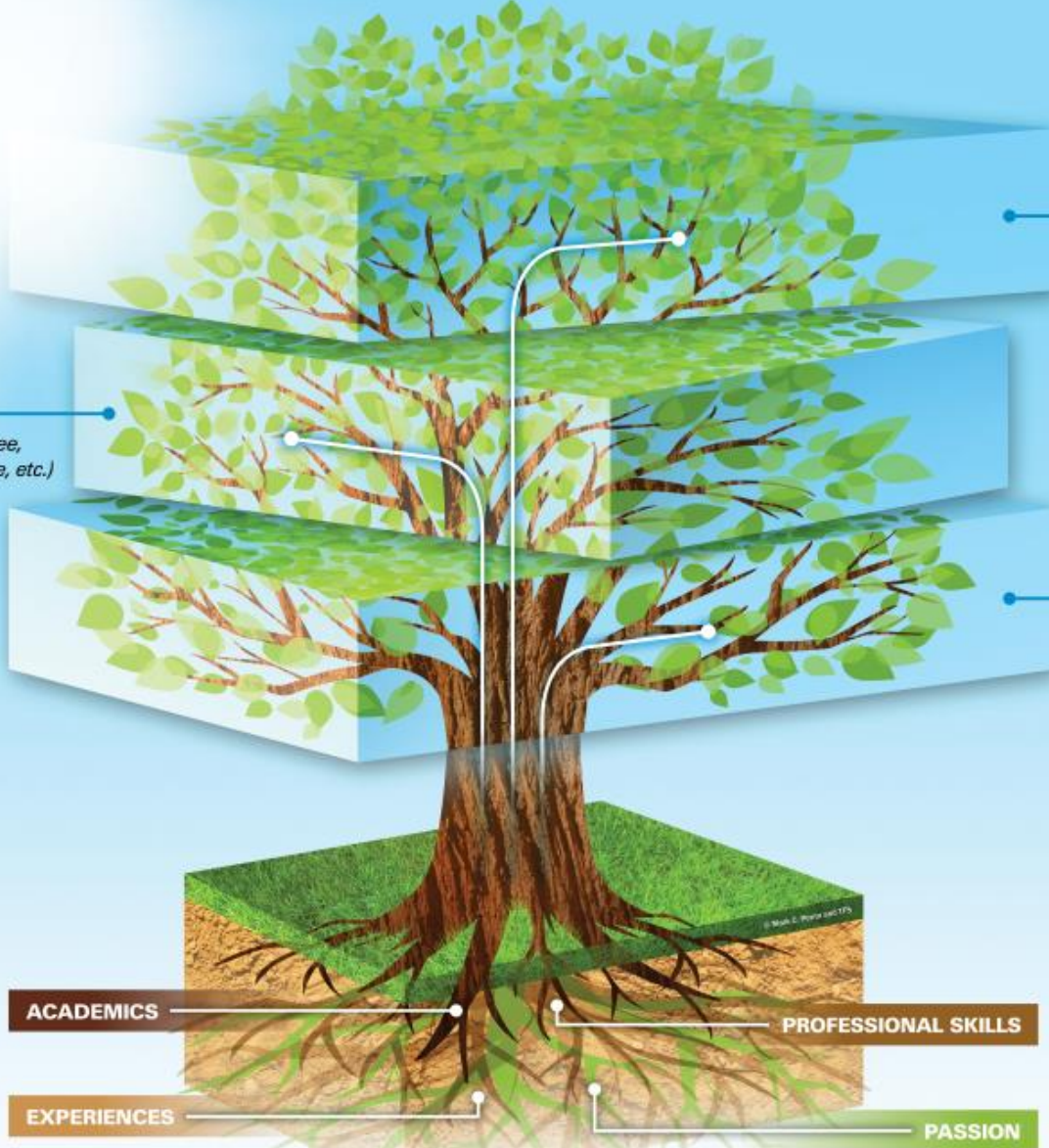
(Bachelor's, Master's, Ph.D., Specialized Training, Experience, etc.)

- Metallurgical Engineer
- Welding Engineer
- Welding Technologist

ENTRY-LEVEL CAREERS

(with Program Completion)

- Welding Machine Operator
- Pipe Bender
- Welder



WELDING



WELDING

12 Segments

1. Occupational Orientation
2. Safety and Health for Welders
3. Shielded Metal Arc Welding (SMAW)
4. Manual OxyFuel Gas Cutting (OFC)
5. Flux Cored Arc Welding (FCAW)
6. Drawing and Welding Symbols
7. Gas Metal Arc Welding (GMAW)
8. Mechanized OxyFuel Gas Cutting (OFC)
9. Gas Tungsten Arc Welding (GTAW)
10. Plasma Arc Cutting (PAC)
11. Weld Inspection and Testing
12. Carbon Arc Cutting (CAC-A)

Universal Skills for All Programs:

1. Follow Industry Safety Standards
2. Ability to work both independently and as part of a team
3. Ability to manage time
4. Possess critical thinking and problem solving skills
5. Ability to plan and organize tasks
6. Computer skills
7. Interpersonal communication
8. Work under stress and time constraints
9. Strong work ethic
10. Self- Directed
11. Ability to work in a facilitated learning environment with minimal supervision
12. Ability to work with diverse groups
13. Attention to detail
14. Able to pass a drug screen

Indispensable Skills and Essential Functions:

1. Mechanical aptitudes/abilities
2. Tool and machine identification, use and memorization
3. Attain stamina to stand for long periods of time
4. Work with loud, hazardous motors and machines
5. Ability to learn precision work in a variety of tasks with sharp objects
6. Ability to interpret technical instructions in mathematical and diagrammatic form
7. Eye/Hand/Foot Coordination
8. Ability to lift 50-100 pounds
9. Ability to tolerate vibrations
10. Ability to tolerate exposure to magnetic fields
11. Ability to tolerate extremes of heat and sparks

Academic Frontloading:

- Applied Math, Reading and Writing Skills
- Computer problem solving and industrial/technology skills
- Algebra 1 and 2
- Geometry

National/State Credentialing:

- Career Safe 10-Hour General Industry
- AWS – SENSE Certified Welder GMAW
- AWS – SENSE Certified Welder GTAW
- AWS – SENSE Certified Welder SMAW

*Certifications may vary by Campus, please see instructor for details.