



PROGRAM COMPETENCIES

AUTO SERVICE TECHNOLOGY

Safety practices
Environmental Protection Agency (EPA) & Occupational Safety and Health Act (OSHA)
Manual transmissions and trans-axle
Electrical system components
Automatic transmission and trans-axle
Engine performance diagnostics and repair
Engine diagnostics, repair, or replacement
Steering systems diagnostics, repair, or replacement
Brakes diagnostics, repair, or replace
Heating and air conditioning systems

AUTOMATION AND ELECTRIC TECHNOLOGY

Safety practices
Basic math operations
Metric and English systems of unit
Laws of motion and force
Preventative maintenance
AC and DC theory
Electric blueprint symbols
Circuit protection devices
Electrical measurement devices
Three-phase wiring
Control circuits
Apply and install electrical devices and components
Electronic connection techniques
Hydraulic components
Pneumatic components
Actuators and control valves
Fluid power systems

BUILDING TRADES

Safety practices
Trade specific math
Measuring and layout tools
Blueprint reading
Prepare building site permits and easements
Form and pour flat concrete
Floor and wall layout and framing
Metal studs
Roof layout and framing
Roofing materials, installation and methods
Leadership, interpersonal skills, client etiquette
Oral and written communication
Electrical exploration, types, methods and basic skills
Plumbing exploration and basic skills
Design, construction and installation of cabinets
Interior and exterior finishing

**GRAND RIVER
TECHNICAL
SCHOOL**

1200 Fair Street
Chillicothe, MO 64601
660-646-3414
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PROGRAM COMPETENCIES

COLLISION TECHNOLOGY

- Safety practices
- Tool and equipment safety
- Paint measuring and mixing
- Damage reports
- Collision welding
- Body panel repair and replacement
- Exterior and interior molding and trim
- Glass installation
- Engine systems, heating and air conditioning
- Steering and suspension
- Trade specific math

COMPUTER NETWORKING / COMPUTER NETWORKING ADMINISTRATION (ADV COURSE)

- Operating systems
- System security
- Wiring technologies
- Network topologies
- Perform backup operations
- Implement virus protection and removal for a workstation
- Explain advantages and disadvantages of wireless technologies
- Install and configure a network concentrator/hub
- Document cable infrastructure

DIESEL SERVICES TECHNOLOGY

- Safety practices
- Usage of books, part books, and charts
- Basic math calculations
- Basic heavy duty, off-highway equipment operation
- Identify and select common fasteners, fittings and lines
- Basic computer operations
- Troubleshoot, measure and evaluate electronics
- Welding
- Fluid power
- Brakes
- Diesel engine components
- Analyze and measure cylinder head, valve train, air induction and exhaust systems
- Troubleshoot and install mechanical and electronic fuel systems
- Tuneup

ADVANCED DIESEL TECHNOLOGY

- Safety practices
- Locate and identify all diesel engine components and functions
- Locate, and identify all electronic power train components and functions
- Locate and identify all hydraulic components and functions
- Volt ohm meter
- Electrical schematic
- Operate software and flash ECM on machinery
- Electrical systems

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PROGRAM COMPETENCIES

EMT- BASIC

Preparatory
Pharmacology
Patient assessment
Airway
Shock and resuscitation
Medical
Trauma
Special patient populations
EMS operations
ALS techniques

EMT- PARAMEDIC

Preparatory
Pharmacology
Airway management and ventilation
Patient assessment
Shock
Special patient population
Trauma
Putting it all together
Operations
Disaster and domestic preparedness issues

INDUSTRIAL WELDING

Safety practices
Oxy fuel cutting
Layout, fit-up and fabrication
Shielded metal arc welding
Gas metal arc welding
Flux cored arc welding
Gas tungsten arc welding
Plasma arc cutting
Metallurgy and heat treating
Leadership
Visual welding test
Destructive and non-destructive testing

ADVANCED WELDING TECHNOLOGY

Safety practices
Print reading
Layout, fit-up fabrication
Shielded metal arc welding
Gas metal arc welding
Gas tungsten arc welding
Air carbon arc welding
Visual welding test
Destructive and non-destructive testing

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