

Limitless opportunities with several Adult and High School Programs!

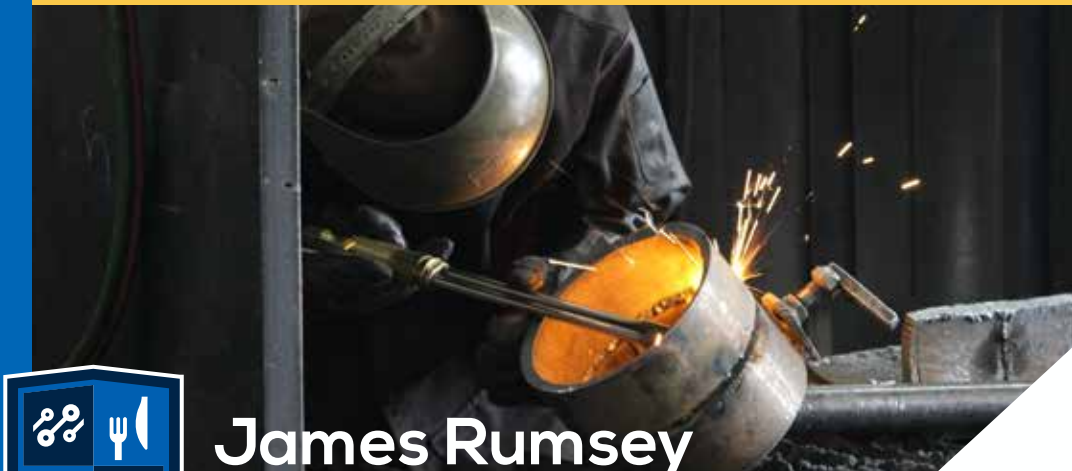
Whatever your destination may be,  
JRTI can help get you there.

HERE TODAY, CAREER TOMORROW!



APPLY ONLINE  
[www.jamesrumsey.com](http://www.jamesrumsey.com)

2026  
2027  
SCHOOL YEAR



**James Rumsey**  
Technical Institute

**LOOK INSIDE!**  
Discover where  
you can go...



**EARN COLLEGE CREDITS**

Many of our two year programs give you the skills and certification to start out at entry level positions within your field. In addition to giving you specific training within your chosen career path, you will also be in contact with local businesses and institutions that are looking to hire skilled professionals!

**EARN EXPERIENCE THROUGH COOPERATIVE EDUCATION**

All of James Rumsey Technical Institute’s programs are structured as simulated work places. This gives each student the ability to work with one another as a small business and establish dynamic synergies that push technical learning beyond the classroom. Hands-on work experience ensures a stronger understanding of your educational experience while being utilized in a safe and guided environment.

**START YOUR CAREER SOONER**

All of our programs have strong educational and business relationships with local companies. In addition to being able to move right into your chosen career after successfully completing our courses, you will also have access to career placement services through the school to help start you on your path.

**MONEY SAVINGS**

James Rumsey Technical Institute offers higher education opportunities at a fraction of the cost of traditional four year schooling, while providing students with a quality education to ensure success in their chosen field.

**LOCAL NETWORKING OPPORTUNITIES**

Each program instructor keeps current with technology, industry and educational changes throughout the year by being actively involved with local business owners and industry specialists. These outside community members offer their time and support to JRTI throughout the year to play an active role in student development, allowing students the opportunity to explore outside local resources.

**JOB PLACEMENT**

JRTI’s Job Placement Coordinator assists with career openings and availabilities. In addition to this, each instructor teaches interviewing and resume writing skills that are specific to your chosen industry.

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## **ADMINISTRATION**

- Trent Sherman**..... Director/Principal
- Dr. Carissa Tress**..... Assistant Director/ACE Assistant Principal
- Chrystal Copenhaver** ..... Student Services Coordinator
- Andrew Albright**..... HS Assistant Principal/Facilities

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James Rumsey Technical Institute is accredited by the  
**Commission of the Council on Occupational Education.**

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James Rumsey Technical Institute does not discriminate on the basis of race, color, national origin, sex, religion, disability, age, or any other basis prohibited by law in its programs, activities, or employment practices. For inquiries contact: Dr. Carissa Tress, Title IX Director/504 Coordinator, 3274 Hedgesville Rd, Martinsburg, WV 25403, 304-754-7925.



PAGE 3



**ADULT PROGRAMS**

PAGE 15

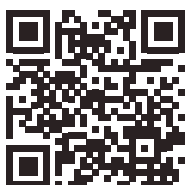


**HIGH SCHOOL PROGRAMS**



Looking for a course we don't offer or want to expand on the program you're taking? JRTI offers an extensive catalog of online courses through ed2go. Choose from either quick classes that take only a few weeks or career training courses that take up to 18 months to complete.

For more information, visit <https://www.ed2go.com/rumsey/>



**ADVANCED CAREER EDUCATION PROGRAMS**

Why choose JRTI for adult technical training? .....	3
Automotive Technician - MAST.....	4
Commercial Driving .....	6
Electrical Technician.....	8
HVAC Technician.....	10

**HIGH SCHOOL PROGRAMS**

Frequently Asked Questions.....	12
High School Course Offerings.....	13
<b>ARCHITECTURE &amp; CONSTRUCTION CLUSTER</b>	
Carpentry.....	17
Electrical Technician.....	22
HVAC Technician.....	25
Masonry.....	27
Plumbing.....	29
<b>ARTS, AUDIO/VIDEO, COMMUNICATIONS CLUSTER</b>	
Graphic Design .....	24
Multimedia Publishing .....	28
<b>EDUCATION CLUSTER</b>	
Early Childhood Classroom Assistant Teacher .....	21
<b>HEALTH SCIENCE CLUSTER</b>	
Allied Health .....	17
Therapeutic Services.....	32
<b>HOSPITALITY &amp; TOURISM CLUSTER</b>	
Prostart Restaurant Management.....	30
<b>INFORMATION TECHNOLOGY CLUSTER</b>	
Coding, App & Game Design .....	18
Cybersecurity/Cisco.....	19
<b>LAW, PUBLIC SAFETY, CORRECTIONS &amp; SECURITY CLUSTER</b>	
Firefighting .....	23
Law & Public Safety.....	26
<b>MANUFACTURING CLUSTER</b>	
Robotics Engineering.....	31
Welding Technology.....	33
<b>SCIENCE, TECH, ENGINEERING &amp; MATH CLUSTER</b>	
Aerospace Engineering .....	14
<b>TRANSPORTATION, DISTRIBUTION, &amp; LOGISTICS CLUSTER</b>	
Automotive Technology.....	16
Diesel Equipment Technology.....	20



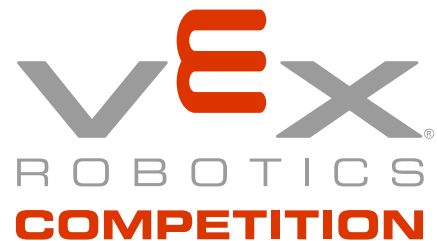
# TRAINING THE LEADERS OF TOMORROW

JRTI is an exciting, active place where students regularly work to develop their leadership skills, learn about career opportunities, represent our region in statewide and national competitions, and contribute to the Eastern Panhandle and surrounding area with community service activities. These activities can be expensive. As a public school, we depend on the generosity and support of our community to provide our students with these opportunities.

Please show your commitment to student excellence and career and technical education by contributing to the various fundraisers our students hold throughout each school year. Our educational programs and student organizations benefit greatly from your support. Donations are accepted at the fundraiser events, in the school office, and through our website.



National  
Technical  
Honor  
Society





# ADVANCED CAREER EDUCATION



There are a lot of choices for adult technical education these days. Why is JRTI your best option? We've been serving the community since 1969, and have a proven track record of student success and industry relationships. Unlike many of our competitors, we are not a for-profit school. We are a public institution dedicated to serving the community.



## Enrollment Procedures

Each program's enrollment procedure is slightly different. The best thing to do is to go to the program's page on our website, [www.jamesrumsey.com](http://www.jamesrumsey.com). You will find a link to the procedures for that specific program.



Check the program's prerequisites. Each program has its own requirements. However, **most** programs require that you be at least 18 years old, and have a high school diploma or WV-accepted equivalency diploma.

## Program Entry Requirements

To ensure successful completion of the course of study, students must meet course requirements and complete all enrollment procedures before being admitted to class. For specific requirements for each program, visit [www.jamesrumsey.com](http://www.jamesrumsey.com) or call 304-754-7925.



All adult students who enter James Rumsey Technical Institute must be assessed. The Truck Driving program is the only program that does not require a high school diploma, HISET, TASC™, GED®, or a West Virginia-accepted equivalency diploma.



Learn more at [www.jamesrumsey.com](http://www.jamesrumsey.com)





# AUTOMOTIVE TECHNICIAN - MAST

ASE/NATEF Master Certified



## Full-Time Adult Classes

11-Month Program

17.5 Hours of Training Per Week In-Person

15 Hours of Self-Paced

Training Per Week At Home

The Automotive Technology program trains students for entry-level positions in the automotive industry. Students spend 50 percent of their time working in a supervised shop, and the other 50 percent is spent in the classroom studying related theory.

Automotive technicians are in great demand. In the metropolitan area, technicians can earn an annual salary as high as the mid-\$60,000 range. Increased high-tech controls are enabling technicians to earn even more!

Through articulation agreements students can earn 12 hours of credit through the University of Northwestern Ohio. Call 304-754-7925 for more information.

## Opportunities in the Field

- Dealerships—Line Mechanic, Specialty Mechanic, New/Used Car Preparation Parts, Parts Sales
- Specialty Shops—Brakes, Tune-Up, Exhaust, Tires
- Independent Shops
- Service Centers
- Service Stores
- Parts Stores

## Cooperative Education

Offered through area dealerships, such as

- Apple Valley Chevrolet/Toyota
- Miller Honda
- Miller Jeep
- Thomassen Ford
- Douglas Chevrolet
- Opequon Motors
- Parsons Ford



## Academic

Applicant must be a high school graduate or have a GED equivalent and must take the TABE (Test of Adult Basic Education).

## Enrollment

Class enrollment is limited to 20.

## Graduation

Upon successful completion of the program, graduates receive a certificate. Students are required to take ASE Tests which will recognize them nationally in areas of training.

## Health

Students must be in good health, able to lift approximately forty pounds, bend, and stand up to six hours daily on concrete floors.

## Application

Prospective students will fill out an application and take a short entrance exam. The information is used in the student selection process. A copy of student's driving record must be submitted.

## Clothing

Students wear clothing suitable for the job. In the shop, students will wear leather boots, a sleeved shirt, long pants, and safety glasses.

## Curriculum

The curriculum is divided into four (4) marking periods. Classes include:

### Automotive Fundamentals

- Careers in Automotive Technology
- Safety
- Tools—use and care

### Brakes

- Brakes—Disc and Drum
- Electronic Anti-lock Brakes

### Steering and Suspension

- Alignment
- Steering Systems
- Front and Rear Suspension

### Engine

- Block/Heads
- Valve train

### Engine Performance

- Fuel System Components - Functions
- Emissions Controls
- Computer Inputs/Outputs
- Ignition Systems

### Electrical

- Wiring Systems
- Electronic Components
- Scan Tool Use

### Heating and Air Conditioning

- A/C System Components
- A/C Operation and Theory
- Heating Components

## Courses of Study

- 9243A Automotive Technology MLR-1
- 9244A Automotive Technology MLR-3
- 9245A Automotive Technology MLR-4
- 9246A Automotive Technology MLR-2
- 9247A Alternative Fuels
- 9248A Automotive Technology AST-4
- 9249A Automotive Technology AST-1
- 9250A Automotive Technology AST-2
- 9251A Automotive Technology AST-3
- 9011A Work-Based Integration & Transition



## PUT YOUR AUTOMOTIVE CAREER INTO GEAR!

# Admission Procedures Checklist

## Automotive Technician MAST

### 1 Do you meet the prerequisites?

- Must be 18 years old.
- Have a high school diploma or WV-accepted equivalency diploma.
- Students must be in good health, able to lift approximately forty pounds, bend, and stand on concrete floors for up to six hours a day.

### 2 What to do next

- Fill out an application online. The registration fee will be deferred until you have been accepted into the program.
- Meet with the instructor for an interview. You can contact the instructor, Mike King at michael.c.king@k12.wv.us Please bring your driving record to the interview.

### 3 Final steps

- The instructor will contact you to inform you if you have met the requirements and have been accepted into the program.
- Once a student is accepted, they will be required to pay a \$75 dollar registration fee to reserve their spot in the class.
- First semester tuition and fees are due prior to the start of class. Second semester tuition and fees are due prior to the start of the second semester, which begins in January.
- We will accept payment plans on a case-by-case basis. Accepted students wishing to inquire about a payment plan should see the assistant director, Dr. Carissa Tress, to discuss options. Please arrange this meeting immediately after paying the \$75 dollar registration fee.



# COMMERCIAL DRIVING



## Full-Time Adult Classes

### CDL-A 10 Weeks Program

### CDL-B 2 1/2 Week Program

Commercial Driver Training at James Rumsey Technical Institute is an intense 10-week training program. The major component of the class is hands-on learning. During the first 5 weeks, students gain experience on our unique driving range. Students then advance to road work for an additional 4 to 5 weeks of driving.

Class hours are Monday through Friday 8:00a.m. to 2:40 p.m. Students work in the classroom the first week. During class time, the students will complete ELDT theory and given lessons on Federal Motor Carrier Safety Regulations, size and weight requirements, hours of service requirements, cargo securement, inspection procedures, trip planning, CSA 2010, and employer relations.

Because of state support for this program, the cost to students is low compared to programs of this type and quality. In addition, students completing this program have an excellent success rate in passing the state CDL performance exam.

If you are not within commuting distance, inexpensive lodging is available in our dorms.

**Interviews for potential students are conducted on Wednesdays at 2:00 p.m. at the Driving Range at 416 Cumbo Rd, Martinsburg WV, 25403. No appointment is necessary. However, a certified copy of your lifetime driving record is required at the time of the interview. See website for more information.**



## Daytime and evening classes offered

### Length Of Program

10 Weeks, Monday through Thursday 7:00 a.m. to 3:00 p.m. or 2:00 p.m. to 9:00 p.m. with one evening of driving (after dark). CDL test at discretion of State Examiner.

### Career Opportunities

The truck driving program boasts a 95% placement rate. The staff at James Rumsey's Truck Driving Program works closely with several companies whose orientation and training programs enable employers to hire entry level drivers. Within two weeks to two months, many employers have students driving full-time as over-the-road tractor trailer drivers.

### Class B Training

30 Hours of Training Per Week. Automatic and manual available. If doing manual transmission, must complete an evaluation on double clutch.

### Curriculum

#### Driving Range

- Pre-trip CDL Inspection
- Gear shifting—Double Clutch Method
- Coupling Tractor to Trailer
- Cargo Securement, van and flatbed
- Straight Line Backing
- Range Driving—with strategic maneuvers through various obstructions
- Spotting (parking) Trailers
- Right Turns & off-track training
- 45° Backing & parallel parking
- Range Test

#### Classroom

- Entry Level Driver Training
- Defensive Driving Skills and Techniques
- Hours of Service Regulations
- Weight Distribution and Scaling Procedures
- FMCSA Compliance Training
- CSA 2010 Regulations
- Trip Planning and Navigational Skills
- Visits by recruiters from our various trucking companies.

#### Road Driving

- Interstate Driving Techniques
- 4-Lane Highway
- 2-Lane Secondary
- City & Town Driving
- Congested Traffic Driving Skills
- CDL Preparation
  - Inspection Skills
  - Driving
- CDL Test
- Mountain Driving Procedures
- Night Driving Procedures
- Loaded Trailer
- Warehouse
  - Docking (ship/receive)



## THE CAREER THAT MOVES AMERICA!



### 1 Do you meet the prerequisites?

- Must be at least 21 years of age or 18 with two (2) years' experience as a licensed driver. If under 21, you may only drive within your state of residence.
- Must have no physical impairments that would interfere with their ability to drive a CMV (Commercial Motor Vehicle) as outlined in the FMCSR (Federal Motor Carrier Safety Regulations). Certain medications are also prohibited. You can call the WV DOT @ 304.347.5935 to determine medical eligibility.
- Must hold a valid driver's license in West Virginia, Virginia, Maryland, or Pennsylvania.
- Must not have more than six (6) points against your driving record. It is the responsibility of the applicant to furnish a certified original copy of his/her lifetime Department of Motor Vehicle record prior to final acceptance.
- Must not have been convicted of any of the following crimes:
  - Driving while under the influence of alcohol or illegal drugs within the past year.
  - Transporting drugs.
  - Leaving the scene of an accident during the year prior to enrollment.
  - Using a vehicle to commit a serious crime.
  - Be convicted of a felony offense during the year prior to enrollment.

Note: These are minimum CDL requirements. Company hiring policies may be more stringent. It is advisable to discuss personal situations with an instructor.

### 2 What to do next

- Fill out an application.
- Visit the program any Wednesday at 2:00 p.m. to complete the interview process. You may contact one of the instructors:
  - Kenneth Dombroski – kenneth.dombroski@k12.wv.us
  - Joe Hall – guyowen.hall@k12.wv.us
- Pay the registration fee.
- Schedule and pass a Department of Transportation approved physical examination and drug screen. After passing the physical, a copy must be sent to Charleston along with a CDL application from the DMV.

### 3 Final steps

- Students will be permitted to begin after the tuition for the class has been paid or arrangements have been verified in writing from a sponsoring agency.



# ELECTRICAL TECHNICIAN

NCCER Certified



- Full-Time Adult Classes**
- 11-Month Program**
- 17.5 Hours of Training Per Week In-Person**
- 15 Hours of Self-Paced Training Per Week At Home**

The Electrical Technician course concentrates on the academic, technical, and social skills required to be successful in the residential and commercial field. In addition, students have the opportunity to earn NCCER certification for each skill set mastered.

Students are required to purchase their own hand tools, a scientific calculator, and safety glasses.

### Opportunities in the Field

There is an increasing demand for skilled electricians who have the knowledge and ability to meet the licensing requirements. The industry is experiencing a shortage of qualified electrical technicians; these positions are among the highest paying and most secure in today's industry.

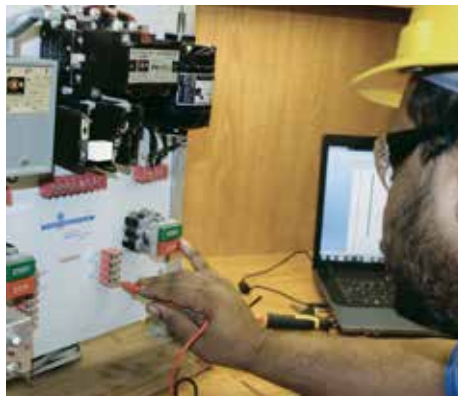
### Admission Criteria

**Health**—Electricians are required to work from ladders and scaffolding, lift loads up to 40 pounds, and stand for long periods of time on concrete floors. Students are required to have the strength and physical endurance to accomplish these tasks.

**Enrollment**—The class is limited to 22 students. Applications are accepted on a first-come basis.

### Length of Program

11 months per year, with maximum number of days absent must not exceed 6 per year.



### Clothing

Students wear clothing suitable for the job. Safety equipment must be worn during lab activities.

### Curriculum

The curriculum is divided into four marking periods.

### UNITS OF STUDY

In each course of study, students develop problem-solving techniques and participate in hands-on activities.

### Electrical Trades I

The Electrical Trades I course introduces the student to the knowledge base and technical skills of the electrical trades industry. It begins with the NCCER Core curriculum, which is a requirement for all Level I completions. The students complete the following modules: Basic Safety, Introduction to Construction Math, Introduction to Hand Tools, Introduction to Power Tools, Introduction to Construction Drawings, Basic Rigging, Basic Communication Skills, Basic Employability Skills, and Introduction to Materials Handling. Students then begin developing skill sets in relation to the fundamentals of Electricity such as Orientation to the Electrical Trade and Electrical Safety.

### Electrical Trades II

Electrical Trades II continues to build student skill sets in areas such as Introduction to Electrical Circuits, Electrical Theory, Introduction to the National Electrical Code®, Device Boxes, Hand Bending, Raceways and Fittings, Conductors and Cables, Basic Electrical Construction Drawings, Residential Electrical Services, and Electrical Test Equipment.

### Electrical Trades III

Electrical Trades III continues to build student skill sets in areas of Alternating Current, Motors: Theory and Application, Electric Lighting, and Conduit Bending.

### Electrical Trades IV

Electrical Trades IV continues to build student skill sets in areas of Pull and Junction Boxes, Conductor Installations, Cable Tray, Conductor Terminations and Splices, Grounding and Bonding, Circuit Breakers and Fuses, and Control Systems and Fundamental Concepts.

### Courses of Study

- 9001A Electrical Trades I
- 9002A Electrical Trades II
- 9003A Electrical Trades III
- 9004A Electrical Trades IV
- 9005A Blueprint Reading for Electricians
- 9006A Industrial and Commercial Wiring
- 9007A Integrated Electrical Lab
- 9008A National Electrical Code
- 9009A Residential Wiring
- 9010A Rotating Devices and Control Circuitry
- 9011A Work-Based Integration & Transition



## LIGHT UP YOUR ELECTRICAL CAREER!

# Admission Procedures Checklist

## Electrical Technician

### 1 Do you meet the prerequisites?

- Must be 18 years old.
- Have a high school diploma or WV-accepted equivalency diploma.
- Electricians are required to work from ladders and scaffolding, lift loads up to 40 pounds, and stand for long periods of time on concrete floors. Students are required to have the strength and physical endurance to accomplish these tasks.

### 2 What to do next

- Fill out an application. The registration fee will be deferred until you have been accepted into the program.
- Meet with the instructor for an interview. You may contact the instructor, Philip Barrett, by email: [philip.barrett@k12.wv.us](mailto:philip.barrett@k12.wv.us)

### 3 Final steps

- The instructor will contact you to inform you if you have met the requirements and have been accepted into the program.
- Once a student is accepted, they will be required to pay a \$75 dollar registration fee to reserve their spot in the class.
- First semester tuition and fees are due prior to the start of class. Second semester tuition and fees are due prior to the start of the second semester, which begins in January.
- We will accept payment plans on a case-by-case basis. Accepted students wishing to inquire about a payment plan should see the assistant director, Dr. Carissa Tress, to discuss options. Please arrange this meeting immediately after paying the \$75 dollar registration fee.



# HVAC TECHNICIAN

## HEATING, VENTILATION, AIR CONDITIONING AND REFRIGERATION

**Full-Time Adult Classes**

**10-Month Program**

**17.5 Hours of Training Per Week In-Person**

**10 Hours of Self-Paced**

**Training Per Week At Home**

Graduates of the HVAC program are qualified for entry into the Heating, Ventilation, Air Conditioning and Refrigeration installation, service, and maintenance fields. This vast industry offers a diverse selection of career opportunities. Entry level positions include:

- Installation Technician
- Maintenance Technician
- Service Technician
- Control Technician
- Oil Burner Technician
- Air Balance Technician

### Admission Criteria

Applicant must be a high school graduate or have a GED. Applicant must be in good health and able to lift, bend, and stand on concrete floors for up to six hours a day. No pre-admission test is required. However, students are tested to evaluate current academic skills.

### Course Description

The major units of study explored in this course focus on building a knowledge base and technical skills in the heating, ventilation, and air conditioning industry. Students have the opportunity to earn NCCER credentials for each skill set mastered. In addition students gain the skills necessary for developing a positive work ethic. The course is divided into 50% hands on and 50% classroom work.



### Tools

Students are responsible for providing their own tools. Tools cost approximately \$1,400.

### Graduation

In addition to successfully completing the HVAC Technician program, graduate requirements consist of (1) earning the “Universal” technician level Section 608 certification for refrigerant recovery and (2) passing the R-410A Safety Certification Exam, (3) Low GWP Refrigerant Safety Certification, and (4) NCCER credentials. (5) 1215 hours towards their HVAC Technician in Training license.

### Clothing

Students wear clothing suitable for the job. Students are required to wear work-type footwear and provide their own safety glasses. No shorts or open-toed shoes permitted.

### Curriculum

The curriculum has been designed to meet industry standards and align with NCCER standards.

- Career Preparation
- Safety
- Leadership Development
- Customer Service
- Introduction to Construction Math
- Hand and Power Tool Basics



- Construction Drawings
- Basic Communication Skills
- Basic Employability Skills
- Material Handling Basics
- Introduction to HVAC
- Trade Mathematics
- Copper and Plastic Piping Practices
- Soldering and Brazing
- Ferrous Metal Piping Practices
- Basic Electricity
- Introduction to Cooling
- Introduction to Heating
- Air Distribution Systems
- Chimneys, Vents, and Flues
- Leak Detection, Evacuation, Recovery, and Charging
- Alternating Current
- Basic Electronics
- Introduction to Control Circuit Troubleshooting
- Troubleshooting Gas Heating
- Troubleshooting Cooling
- Heat Pumps
- Basic Installation and Maintenance Practices
- Sheet Metal Duct Systems

### Courses of Study

- 9041A HVAC Technician I
- 9042A HVAC Technician II
- 9043A HVAC Technician III
- 9044A HVAC Technician IV
- 9045A Basic Control Circuits
- 9046A Air Conditioning Applications
- 9047A Domestic Refrigeration
- 9048A Fossil Fuel Heating Systems
- 9049A Heating Systems
- 9050A Commercial Air Conditioning
- 9011A Work-Based Integration & Transition



## HEAT UP YOUR HVAC CAREER!

# Admission Procedures Checklist

## HVAC Technician

**1**

### Do you meet the prerequisites?

- Must be 18 years old.
- Have a high school diploma or WV-accepted equivalency diploma.
- Must be in good health and able to lift, bend, and stand on concrete floors for up to six hours a day.

**2**

### What to do next

- Fill out an application. The registration fee will be deferred until you have been accepted into the program.
- Meet with the instructor for an interview. You can contact the instructor, Rebecca Nelson, at [ranelson@k12.wv.us](mailto:ranelson@k12.wv.us)

**3**

### Final steps

- The instructor will contact you to inform you if you have met the requirements and have been accepted into the program.
- Once a student is accepted, they will be required to pay a \$75 dollar registration fee to reserve their spot in the class.
- First semester tuition and fees are due prior to the start of class. Second semester tuition and fees are due prior to the start of the second semester, which begins in January.
- We will accept payment plans on a case-by-case basis. Accepted students wishing to inquire about a payment plan should see the assistant director, Dr. Carissa Tress, to discuss options. Please arrange this meeting immediately after paying the \$75 dollar registration fee.

# HIGH SCHOOL PROGRAMS FREQUENTLY ASKED QUESTIONS

Learn how JRTI enhances your high school experience without interfering with it.



## HOW BIG IS JRTI?

We usually have between 400 and 500 students enrolled in our high school programs each year.

## IS JRTI PART OF THE PUBLIC SCHOOL SYSTEM?

Yes it is. We follow Berkeley County Schools' schedule and grading system. Students from Berkeley, Jefferson, and Morgan counties attend our programs.

## HOW MUCH DOES IT COST?

JRTI is free to all high school juniors and seniors who reside in Berkeley, Jefferson, and Morgan counties, including home-schooled and private school students.

## CAN I STILL TAKE CLASSES AT MY SCHOOL?

Most students attend JRTI for half of the school day. Students earn four credits for tech classes each year. Classes are scheduled either in the morning or in the afternoon.

## HOW DO I GET THERE?

Students enrolled in public school ride their normal bus to their home high school. After reporting to your home high school, you board another bus to JRTI. The same bus returns you to your home high school after class. You will then ride your normal bus home. Home-schooled and private school students may need to arrange their own transportation.

## CAN I STILL PARTICIPATE IN ACTIVITIES AT MY HIGH SCHOOL?

Absolutely! Even for students who attend JRTI all day. You will still be able to participate in your high school's

clubs, sports, band, and prom; you name it! You will still be a student at your school. You will graduate from that school. You will still see your friends, and make new ones from all over the area.

## HOW QUALIFIED ARE YOUR TEACHERS?

JRTI has one of the state's most qualified and credentialed faculties. All of our teachers are certified by the WV Board of Education and have several years of experience in their field. If you want to be the best, learn from the best!

## I'M GOING TO COLLEGE. WHY SHOULD I ATTEND JRTI?

The biggest misconception people have about career and technical schools is that students planning to go to college can't benefit from technical school. They couldn't be more wrong! All of our programs offer students a leg up over the competition, whether it is on the job or in college. Many of our programs lead directly to a college program. Others offer the practical hands-on side of a discipline that you won't learn in college.

## WAIT A MINUTE, I HEARD TECH SCHOOL WAS ONLY FOR STUDENTS WHO STRUGGLE IN THEIR ACADEMIC CLASSES.

Technical school is not an escape from academic studies. JRTI offers an educational experience that combines academic skills with practical hands-on practice, workplace skills, and leadership training. Our job is to prepare you for the demanding world of the 21st Century. All of our programs incorporate math, reading, and writing.

The difference is, you will apply these skills in a way that relates directly to your chosen industry.

## ATTEND JRTI ALL DAY

Students who prefer the advantages of attending a small school are able to study the tech class of their choice and complete many of their academic credits all on one campus. JRTI offers the 4 core academic classes for 11th and 12th grades.

These classes are taught by highly qualified teachers who not only stress academic rigor, but also incorporate technical career relevance into the lessons and project based learning. Students, who attend the academic program in addition to their technical class, receive a broader educational foundation.

Many of our highly successful students attend JRTI for technical and academic studies. Students feel unified and a part of the school culture when they attend JRTI for their core academic classes. Additionally students who attend JRTI for both technical and academic classes have more opportunities for participation in technical organizations, field trips, and clubs.

Many of the academic courses offer the opportunity to earn EDGE credits. All you need is a grade of 75 or higher every nine weeks and on the semester exams.

# HIGH SCHOOL COURSE OFFERINGS

Not sure which program is for you? We offer 18 programs that cover a broad range of interests. Related programs are organized into 9 career clusters. Explore the options based on what type of work appeals to you.

## WHAT DO YOU LIKE TO DO?

Explore programs based on your talents and interests.



## HOW DO YOU APPLY?

Visit our website

[WWW.JAMESRUMSEY.COM](http://WWW.JAMESRUMSEY.COM)

To fill out the application form.

Speak with your guidance counselor to arrange an interview.

## DID YOU KNOW...

High school students involved in Career and Technical Education are more engaged, perform better and graduate at higher rates.

81% of dropouts say relevant, real-world learning opportunities would have kept them in high school.

The average high school graduation rate for students concentrating in CTE programs is 90.18%, compared to an average national freshman graduation rate of 74.9%.

More than 70% of secondary CTE concentrators pursued postsecondary education shortly after high school.

\*Statistics provided by [www.aceonline.org](http://www.aceonline.org)

### I LIKE TO WORK WITH TECHNOLOGY

#### INFORMATION TECHNOLOGY

Coding, App & Game Design .....	18
Cybersecurity/Cisco .....	19

#### SCIENCE, TECH, ENGINEERING & MATH

Aerospace Engineering .....	14
-----------------------------	----

### I LIKE TO BE CREATIVE

#### ARTS, AUDIO/VIDEO, COMMUNICATIONS

Graphic Design .....	24
Multimedia Publishing .....	28

#### HOSPITALITY & TOURISM

ProStart Restaurant Management .....	30
--------------------------------------	----

### I LIKE TO HELP PEOPLE

#### HEALTH SCIENCE

Allied Health .....	15
Therapeutic Services .....	32

#### EDUCATION

Early Childhood Classroom Assistant Teacher .....	21
---	----

#### LAW, PUBLIC SAFETY, CORRECTIONS & SECURITY

Firefighting .....	23
Law & Public Safety .....	26

### I LIKE TO BUILD AND REPAIR THINGS

#### ARCHITECTURE & CONSTRUCTION

Carpentry .....	17
Electrical Technician .....	22
HVAC Technician .....	25
Masonry .....	27
Plumbing .....	29

#### MANUFACTURING

Robotics Engineering .....	31
Welding Technology .....	33

#### TRANSPORTATION, DISTRIBUTION, & LOGISTICS

Automotive Technology .....	16
Diesel Equipment Technology .....	20

\*James Rumsey Technical Institute is not affiliated with any of the colleges or universities listed on the following pages.



# AEROSPACE ENGINEERING



IT2210

*How would you get a 50,000 lb plane to stay in the air?*

JRTI has added a new STEM offering to our already impressive list of high school technical programs. Students can get a jump on their education in engineering and aerospace in our hands-on learning environment. If you're thinking about pursuing an engineering degree in college or learning about one of the many aerospace industry support positions, don't miss this opportunity!

The Aerospace Engineering program of study is designed to introduce students to the many aviation careers and further study in aerospace technologies and related industries. The program's four-course sequence will provide students with the opportunity to apply concepts and principles of atmospheric flight and space flight to authentic situations with an emphasis on propulsion systems, ballistic projectiles, airplane wing design, aerodynamic forces, pneumatic projectiles, and quality management and enhance their knowledge of space through a series of projects that include in-depth research, concept application and prototype development.

### **What you will do in this class**

Design, build, and test models and prototypes, produce engineering reports. Sample projects include developing model rockets and gliders.

### **Skills you will learn**

The Engineering Design Process (design, build, and test), industry terminology, tools used to make decisions and solve problems, project management, appropriate and effective research, communicate information such as descriptive statistics to various stakeholders.

### **Tools you will use**

Computers, Client Assistance Programs, test equipment, and presentation tools.

### **Major Units of Study**

Engineering process  
Wing design  
Propulsion  
Ballistics  
Basic navigation  
Material science

### **Weighted Credit**

Students will receive weighted credit for grades earned in this program. Dual credit and/or articulation agreements will be available to successful completers of this program.

### **Example Job Titles**

Aeronautical Engineer  
Mechanical Engineer  
Aircraft/Spacecraft Designer  
Data Processing Manager  
Military Aerospace Engineer

### **Related College Programs**

**Aerospace Engineering**  
WVU, Morgantown, WV

**Mechanical Engineering**  
WVU, Morgantown, WV

**Physics**  
Marshall University, Huntington, WV

**Mathematics**  
Marshall University, Huntington, WV

**Space Studies**  
American Public University System  
Charles Town, WV



## ALLIED HEALTH



HE0715

*Lab technicians get the information needed to treat patients.*

Allied Health Sciences is a new offering in the JRTI healthcare technical programs. The AHS program will enable students to enhance their healthcare foundation by obtaining skills in the phlebotomy and electrocardiographic areas of diagnostic testing.

The Allied Health Sciences program uses a combination of academic and practical skill demonstration as well as clinical practice that will allow the student to gain the foundational knowledge that leads to entry-level employment and meets standards for national certification once successfully completed.

### *What you will do in this class*

Learn and demonstrate the protocols for providing efficient, accurate diagnostic testing results in phlebotomy and electrocardiographic procedures. Students learn how to do venipuncture procedures using ETS, syringe, and winged (butterfly) blood collection methodologies. Practice the order of draw and tube additives, dermal puncture procedures (fingersticks), point of care testing (POCT) for glucose, and hematocrit, and perform and interpret a 12-lead EKG.

### *Skills you will learn*

- Venipuncture procedures using ETS, syringe, and winged (butterfly) blood collection methodologies
- Order of Draw and tube additives
- Dermal punctures procedures (fingersticks)
- Point of Care Testing (POCT) for glucose and hematocrit
- Perform a 12-lead EKG
- Interpret an EKG

### *Tools you will use*

Simulation phlebotomy arms for adults and children, mobile phlebotomy tray, centrifuge, microscope, stethoscope and blood pressure cuff with sphygmomanometer, EKG machine, computer

### *Major Units of Study*

Healthcare foundations  
A&P with focus on the Circulatory System  
Venipuncture and dermal puncture

procedures and protocol  
Blood flow and electrical conduction of the heart  
Cardiac cycle with focus on recognizing arrhythmias

### *Example Job Titles*

Phlebotomy Technician (certified)  
EKG Technician (certified)  
Monitor Technician

### *Related College Programs*

#### **Radiology**

HCC, Hagerstown, MD

#### **EKG Technician**

Blue Ridge CTC, Martinsburg, WV

#### **Respiratory Therapy**

WVU, Morgantown, WV



# AUTOMOTIVE TECHNOLOGY

NATEF and AYES Certified



TR1620

*The most high-tech device in your house is sitting in the garage.*

Every year auto manufacturers release new models. They add more complex computer systems, gadgets, and upgrades of every kind. The race is on to build the most fuel efficient and tech-friendly vehicle on the road. Consumers want their ride to provide modern conveniences and get them where they need to go with as little gas as possible.

As new technologies come along, the amount of skill required to do this work increases. Environmental and economic concerns are increasing the

demand for hybrid and electric drive systems. Sharp young technicians are needed who will be able handle these new technologies.

The number of drivers on the road continues to grow. There are over 250 million cars and trucks on the roads in the United States. Every one of those vehicles will need to be repaired at some point. The demand is growing for people who can work on these complex systems and handle the logistics of managing the thousands of parts required to do the work.

### Example Job Titles

- ASE Master Automobile Technician
- Service Writer
- Shop Foreman
- Service Manager
- Parts Specialist
- Parts Manager
- Shop Owner

### Related College Programs

#### Mechanical Engineering and Automotive Design

WVU, Morgantown, WV

#### Automotive Analysis & Repair

Blue Ridge CTC, Martinsburg, WV

#### Applied Technologies

UNOH, Lima, OH

#### Auto Technology

Lincoln College of Technology (formerly NADC), Nashville, TN

#### Automotive Technician

Universal Technical College(UTI), Exton, PA

“ Mr. Zeger’s automotive class kept me in school, made coming to school enjoyable, and got me prepared for my line of work. — Seth Miller

### What you will do in this class

The first year of the program focuses on theory and hands-on practice. During the second year, students are responsible for operating a live shop. With roles such as Technician and Shop Foreman, students diagnose problems and perform repairs on vehicles for real customers.

### Skills you will learn

Troubleshooting, repair, and replacement of the various components of all major automotive systems, including the engine, brakes, steering, and suspension systems.

### Tools you will use

Hand tools, diagnostic scan tools, 2 and 4 post lifts, brake lathes, hydraulic presses

### Major Units of Study

- Fundamentals of Automotive Technology
- Basic Engine Concepts
- Brakes
- Suspension & Steering





# CARPENTRY

NCCER Certified



AR1820

*Skilled hands can build anything.*

Carpentry skills are some of the most useful skills you can have. You can use them to make a good living, or to improve your own home. Use them to start a woodworking hobby. However you apply these skills, you will always be impressed with what you are capable of making.

How would you like to start your own business right after high school? When you turn 18 and have completed this program, you will be able to take the West Virginia Contractors License Exam. You can be your own boss while

your friends are still working in fast food.

College is expensive. No matter what your major is, working in the construction trade is a great way to pay for it. You can find work anywhere, and make more during the summer than most college students make in a year.

Start a hobby. Make a living. Pay for college. Own your own business. Build your own house. You can do it all with the versatile and useful set of skills you will learn in the Carpentry program.

## Major Units of Study

Framing  
Roofing  
Drywall  
Window and Door Installation  
Cold-Formed Steel Framing  
Exterior Finishing  
Interior Finishing

## Example Job Titles

Carpenter  
Leadman  
Framer  
Installer  
Roofer  
Contractor  
Entrepreneur  
Real Estate Developer



## Related College Programs

### Construction Management

Westwood College, Annandale, VA

### Construction Engineering & Management

Virginia Tech, Blacksburg, VA

### Civil Engineering

Penn State, Harrisburg, PA

### Occupational Safety

Fairmont State College, Fairmont, WV

### Architecture & Environmental Design

Morgan State University, Baltimore, MD

“ I am glad that I took this class because it prepares you for the future and gives you a skill that you can use in the real world. If you don't decide to go full time with this skill, you can always come back and use to earn a little side money. Also, the teacher was a big factor since we both like to hunt and fish in our spare time. — *Johnathan Marsceau* ”

## What you will do in this class

Reading blueprints; measuring, cutting, joining, and finishing lumber; installing shingles; building cabinets; and estimating. Students often choose to work on extra projects when time permits. Examples of these projects include archery bows, trophy mounts, plaques, and jewelry boxes.

## Skills you will learn

Safety, material handling, framing floors, walls, roofs, stair construction, installing windows and doors, shingles, insulation, drywall, sidings, flooring, cabinets and counter tops

## Tools you will use

Hand tools like framing square, speed square, hammers, and saws. Power tools like a planer, table saw, band saw, drill press, circle saw, drills, and routers



# CODING, AI & GAME DESIGN



IT1442

*Build the apps the world runs on!*

Computer applications impact us in almost every area of our life. In the Coding, App & Game Design class, you will learn to write programs ranging from utilities to applications to games using Python as our primary programming language.

In this two year program, first and second year students work together in teams to develop real projects. Second year students act as project leaders, directing the work and supervising their teams. The environment is designed to make the experience realistically reflect

project management in the web design and game development industry. Students learn team building and interpersonal skills to prepare them for leadership roles in their careers. Why just learn how to do the work when you can train to be the boss?

A portfolio is an important tool for getting into a college program or landing a job in this field. Our students develop a portfolio to showcase the work they do on both gaming and applications.

### Major Units of Study

- Javascript
- HTML5 and CSS3 Coding Validation
- Web Design Concepts
- Web Publishing
- Research Techniques and Design Cycles
- Game Development 2D
- Game Development 3D

### Example Job Titles

- Web Designer
- Web Developer
- Application Development
- Game Design
- Game Development
- Sales and Marketing
- Project Management
- Flash Developer
- Javascript Programmer
- Java Programmer

### Related College Programs

#### Game Software Development

Baker College, Allen Park, MI

#### Game and Simulation

Programming DeVry University, Manassas, VA

#### Graphic Design

Shepherd University, Shepherdstown, WV

#### Audio Developer

WVU, Morgantown, WV

“While at JRTI I learned quite a few things consisting of the Python program, team management, time management, and project sizing. It has been a great experience even if there were a few bumps along the way. — *Jonah-Xavier Grubb*

### What you will do in this class

Explore various technologies used to develop applications, games and utilities, such as a Discord Bot. Design and build interactive applications and games through storyboarding, coding, and graphics development.

### Tools you will use

Notepad ++, Python, PyCharm, PyGame, Microsoft Office, Windows PC

### Skills you will learn

Python programming, GUI Design, Game Design, animation and graphics. We'll also learn some web design and basic Computer Science concepts. You will Code, Code and then Code (No block coding in this class!)

**Starting in the 2026-2027 school year, Coding, AI & Game Design will be a one-year program.**



# CYBERSECURITY/CISCO

CCENT, CCNA, MOS, and MTA certified



IT1640

*Keep the world connected!*

The Cybersecurity/Cisco program will prepare you to work in our technology driven world. Computer technicians, network administrators,

and security professionals keep our data safe and maintain the hardware used to run nearly every business on the planet.

“Entering the classroom for the first time, I noticed right away that this program was professional. Throughout my first year, I started to gain the knowledge of what the IT field was all about. I realized very quickly, that I wish to continue with a career in IT. Even though what I have experienced so far was challenging, I know that I will succeed with the support from my peers and my instructor. – *Ethan McCullough*”

## What you will do in this class

In each course, Cybersecurity/Cisco students will learn technology concepts with the support of interactive media and apply and practice this knowledge through a series of hands-on and simulated activities that reinforce their learning:

- Students complete a basic procedural lab, followed by configuration, implementation, and troubleshooting labs.
- Cisco Packet Tracer activities allow students to model and analyze routing processes that may be difficult to visualize or understand and practice their skills within simulated networks.
- Quizzes, skills assessments, chapter exams, and practice exams provide feedback as students advance through the curriculum.

## Skills you will learn

Design, calculate, and apply subnet masks in IPv4 and IPv6 networks. Build an Ethernet network using routers and switches. Use Cisco command-line interface (CLI) commands to perform basic router and switch configurations. Utilize common network utilities to verify small network operations and analyze data traffic. Configure and troubleshoot basic operations of a small switched network. Configure and troubleshoot VLANs and inter-VLAN routing. Configure, monitor, and troubleshoot ACLs for IPv4 and IPv6.

**Learn by doing. It's faster, easier to remember, and you won't get bored.**



## Tools you will use

CISCO1941/K9 Integrated Services Routers Generation 2 (ISR-G2)  
HWIC-2T Serial WAN Interface Cards  
WS-C2960-24TT-L Cisco Catalyst switches  
Linksys EA Series routers (2700, 3500, 4500) or equivalent  
Assorted Ethernet and Serial cables and hubs  
Computer Terminal

## Example Job Titles

Chief Information Officer  
Computer and IT Systems Manager  
Customer Support Specialist  
Data Center Support Specialist  
Network Administrator  
Network Systems Engineer  
Network Service Technician  
Database Administrator  
Desktop Support Manager

## Related College Programs

### Cyber Security

Blue Ridge CTC

### Information Technology

Blue Ridge CTC

### Computer Information Technology

WVU Parkersburg

### Information Security Major

WVU Parkersburg

### Computer Engineering Comprehensive

Shepherd University



# DIESEL EQUIPMENT TECHNOLOGY

ASE and NATEF Certified



TR1740

*Diesel is the workhorse of the transportation industry.*

The power of diesel engines in tractor trailers and trains gets our products to market. The reliability of diesel drives the farm equipment that harvests those products, and it's the fuel efficiency of diesel that's making it a popular alternative for pickup trucks and even the family car.

Diesel technicians keep America's workhorses running. Whether you're operating a piece of heavy equipment or hauling it to the job site, you need a diesel technician who can get the work

flowing again when things go wrong. It doesn't matter if it is a small contractor's only pickup truck or a large company's entire fleet, you can keep them in business as a diesel tech.

Working on diesel engines can be a big job, literally. These aren't the puny engines you're probably familiar with. A truck engine is six times the size of what you'll find in a car. A job that size requires big tools. Diesel techs need to be able to handle the physical demands of this type of engine repair work.

### Example Job Titles

- Mechanic
- Diesel Mechanic
- Bus Mechanic
- General Repair Mechanic
- Diesel Technician
- Truck Mechanic
- Service Technician
- Preventive Maintenance Technician

### Related College Programs

#### Automotive Technician

Universal Technical College(UTI), Exton, PA

#### Applied Technologies

UNOH, Lima, OH

#### Diesel Technology

WyoTech, Blairesville, PA

#### Aviation Maintenance Technology

Pittsburgh Inst. of Aeronautics, Pittsburgh, PA

#### Auto Technology

Lincoln College of Technology (formerly NADC), Nashville, TN

“A great class. You start with fundamentals, and go through the whole truck. The class also teaches you all aspects of the industry. Without this class, I don't know what I would be doing after high school. — Jacob Golden

### What you will do in this class

Use a combination of online and classroom work to study diesel theory. In the shop, you will learn the hands-on skills to apply the theory, and tune-up and troubleshoot various vehicles including trucks, construction, and farm equipment.

### Skills you will learn

Identification, disassembly, cleaning, inspection, and rebuilding of all major components of a diesel engine

### Tools you will use

Hand and power tools, precision measurement tools, and laptops used for troubleshooting

### Major Units of Study

- Fundamentals of Diesel Equipment
- Diesel Engine Components
- Diesel Support Systems
- Electronic Engine Controls





## EARLY CHILDHOOD CLASSROOM ASSISTANT TEACHER



ED1300

*Would you describe yourself as both creative and nurturing?*

Students will use creative and critical thinking skills to complete tasks that are comparable to tasks of a child care professional.

Students get to participate in the growth and development of children in our on-site preschool classroom. Students will spend an hour a week minimum working with the children and helping them with their daily tasks.

Consider a career if you are nurturing, patient, and have the ability to problem-solve. You must be a quick thinker and a multi-tasker. Talking to parents must not intimidate you. Being a child care professional is challenging, exciting, fun and entertaining. It is a new experience every day, some days may be a struggle so you definitely need to have a passion for it.

### Major Units of Study

Universal precautions, ethics, physical development, social-emotional development, language development, learning through play, and developmental theory and appropriate practices

### Example Job Titles

Child Care Worker  
Licensing Specialist  
Teacher  
Aide

Students in this class may also go on to careers in social work, child advocacy, early intervention, speech and language pathology, special needs, curriculum development, children's entertainment, etc.

### Related College Programs

#### Occupational Development

Blue Ridge CTC, Martinsburg, WV

#### Elementary Education

Shepherd University, Shepherdstown, WV  
WVU, Morgantown, WV  
Fairmont State University, Fairmont, WV  
Concord University, Athens, WV  
Shenandoah University, Winchester, VA  
George Mason, Fairfax, VA

“ I am glad that I have been able to experience and understand that children learn in different ways and need a variety of supportive techniques for them to learn best. I am also pleased that I have learned developmentally appropriate ways to handle less than ideal behaviors that will better guide children to make appropriate choices. Through my experience in this class I have built a tool-box of ideas and techniques to use in my future when I work with children. —  
*ReAnne Catlett*

### What you will do in this class

Students develop activities for children, problem-solve situations that may come up between caregiver and parent, caregiver and child, or caregiver and coworkers. We also complete projects to raise awareness of developmental concerns related to child development.

Create bulletin boards and work on portfolios that showcase your best work.

Work with the children for a minimum of an hour a week. Dance, paint, and play games outside!

Students have a say in how our learning experiences happen, and brainstorm ideas on how to make education better for others. The group-work students do in class is very important, which follows the concept – “it takes a village to raise a child”.

### Tools you will use

Cricut/computer, glue, tape, paint, household materials like vinegar and baking soda for volcanos or cornstarch and water for goop, shaving cream, food coloring, kool-aid, and lesson plan resources like Mailbox Yearbooks



## ELECTRICAL TECHNICIAN

NCCER Certified



AR1760

### Where would we be without power?

Practically everything runs on electricity these days. The number of electronics used in offices and homes is growing rapidly. The demand for power is higher than ever. This is a great time to be an electrician!

Our Electrical Technology program will give you a huge head start in the industry. Students who complete the two year program are eligible to take the WV Electrical Journeyman's Test. Those who enter the industry without this training have to work in the field for two years before they can test for this license.

Completers of this program are also eligible to continue their education after high school in JRTI's Electromechanical Technology program (page 12). This opens up career options in the industrial maintenance field, putting you in very high demand in an area full of industrial plants like the four-state region.

Want more options? Training in this program will give you a strong foundation to build on if you want to pursue an electrical engineering degree in college.

### Major Units of Study

- Safety
- Electrical Theory
- Residential Wiring
- Commercial Wiring

### Example Job Titles

- Electrician Apprentice
- Electrician Journeyman
- Electrician Master
- Entrepreneur
- Electrical Maintenance Technician
- Lineman
- Industrial Electrician
- Installation Technician

### Related College Programs

#### Pre-Engineering

WVU, Morgantown, WV

#### Mechanical Engineering Technology

Fairmont State, Fairmont, WV

#### Electrical Distribution Technology

Blue Ridge CTC, Martinsburg, WV

“ I thoroughly enjoyed this class. I appreciated not only the hands on parts of the class, but the theory parts of the class too. I believe this class is preparing me very well to go into the workforce as an electrician, and I look forward to taking the second half of this class next year. — Noah Hose

### What you will do in this class

Install and troubleshoot residential and commercial electrical circuits, run wiring, cut and bend conduit, test circuits, install breaker boxes and lighting fixtures.

### Skills you will learn

Installation of residential and commercial receptacles, lighting circuits, electrical services, and EMT

PVC RIGID and MC CONDUIT, Calculating current, resistance, voltage, and impedance using Ohm's law. Completers are eligible to test for their WV Electrical Journeyman's license

### Tools you will use

hand tools, electrical drills, saws, various types of conduit benders, and multi-meters





# FIREFIGHTING



LA2200

## What does it take to save a life?

In an emergency there is no time for hesitation and no room for mistakes. Do you have what it takes? Firefighters come to the rescue when we need them most. You must be brave, confident, and calm under pressure. This career is not for the timid or weak at heart.

There are many careers and options within the fire service to serve the

public. The Emergency and Firefighting Management Services Program will give you the opportunity to explore these options and find out where you fit in. This program uses simulated practical evolutions, including “live burn” exercises, to develop the skills you need to succeed. You will learn as much about yourself and your abilities as the career.

## Certificates You Can Earn

- NFPA Firefighter 1
- NFPA Firefighter 2 CPR/First Aid
- NIMS 100
- NIMS 200
- MIMN 700
- NIMS 800
- Vehicle and Machinery Extrication Awareness
- Vehicle and Machinery Extrication Operations
- Hazardous Material Awareness
- Hazardous Materials Operations

## Example Job Titles

- Firefighter
- EMT
- Health Care Provider
- Fire Officer
- Fire Investigator
- Military Firefighter
- Paramedic
- Safety Officer
- Haz-Mat Specialist

## Related College Programs

### Fire Prevention and Safety Technology

Blue Ridge CTC, Martinsburg, WV

### Fire Science / Fire-fighting

Kaplan University, Hagerstown, MD

### Occupational Safety

Fairmont State University, Fairmont, WV

### Safety Management

WVU, Morgantown, WV

“Being at James Rumsey in the emergency services program has been challenging, but a great experience. I have enjoyed this program because it has helped me understand what it means to serve my community. I would recommend this program to anyone. — Kendall Barrett

## What you will do in this class

You will learn the lifesaving skills of a firefighter. You will experience a live burn, climb ladders, pry open doors, cut apart vehicles, operate equipment, use a self-contained breathing apparatus, perform first aid, and learn how to search for victims in a smoke-filled environment. You will learn about the turnout gear, tools, and safety equipment firefighters use. You will learn the life skills necessary to learn and work alongside some of the most talented and bravest people you will ever know.

## Skills you will learn

Safety, fire suppression, search and rescue ladders, forcible entry, vehicle

extrication, fire hose management, communications, hazardous materials incident management, ropes and knots, CPR/First Aid/AED

## Tools you will use

Firefighter turnout gear, hose and appliances, hand tools, self-contained breathing apparatus, fire extinguishers, rope, extrication equipment, radios, hazardous materials equipment

## Major Units of Study

- Firefighting 1
- Industrial Hazardous Materials
- Firefighting 2
- Industrial Incident Command

# GRAPHIC DESIGN



AV1850

*Vision is the sense we rely on most.*

So, why do schools teach us how to communicate verbally and with the written word, but not visually? Is it because it takes a Graphic Designer to do it well?

What is Graphic Design? Graphic Design is about solving problems visually. A Graphic Designer uses text, illustrations, symbols, photography, textures, colors and letterforms to create print and web-based design for a large variety of clients.

Graphic Design is all around you. Have a product or message you want an audience to view? If you are trying to communicate an idea or concept in a visual way, then you will be using Graphic Design to get your message across.

Graphic Design is all around you, from the posters hanging in your room, to your favorite band's logo! All created by a graphic artist! Imagine what you can do, and ask, what will you create?

## Major Units of Study

Fundamentals of Illustration  
Illustration  
Fundamentals of Graphic Design  
Graphic Design Applications

## Example Job Titles

Graphic Designer  
Desktop Publisher  
Print Shop Employee  
Screen Printer  
Sign-Shop Employee  
Photographer  
Industrial Designer  
Web Designer  
Medical Illustrator  
Computer Animator

## Related College Programs

### Graphic Design

WVU, Morgantown, WV

### Graphic Design

Shepherd University, Shepherdstown, WV

### Graphic Design

Art Institutes International, Pittsburgh, PA

### Game Art & Design

Art Institutes International,  
Washington, DC

### Digital Arts & Design

Full Sail University, Winter Park, FL

“Not only did James Rumsey Technical Institute give me great memories and wonderful friendships, it also gave me the leadership qualities and self confidence that I lacked before attending. James Rumsey has opened up my future in so many ways that I can now sleep a little easier knowing my future is brighter. I will be grateful for my opportunity to learn at such an advanced technical institution for the rest of my life. — Victoria Grace

## What you will do in this class

Drawing, illustration, and image manipulation using traditional media and computer software, typography, and design fundamentals.

## Tools you will use

Adobe design and graphics software, vinyl sign cutter, cutting boards, large format printer, color laser printer

## Skills you will learn

Advertising concepts, form and space, advanced layout design, package design, publication design, art direction, color and design fundamentals, image manipulation, typography, layout and concept design, Graphic Design business fundamentals

Starting in the 2026-2027 school year,  
Graphic Design will be a one-year program.



# HVAC TECHNICIAN



HE0715

*How would you like to keep the world comfortable?*

Do you have what it takes to become a HVAC/R technician? Our HVAC/R program will get you trained in this very high-in-demand career. Students that complete the two-year program

can take the EPA 608 Universal Certification Exam. Students are eligible for OSHA 10 training.

## **Related College Programs**

### **Pre-Engineering**

WVU, Morgantown, WV

### **Mechanical Engineering Technology**

Fairmont State, Fairmont, WV

### **Electrical Distribution Technology**

Blue Ridge CTC, Martinsburg, WV

“Mrs. Nelson is absolutely the best teacher for this program. I learned so much and was able to go to work no problem after the program. Her teaching style is the best. . — *Sawyer Twigg*

## **What you will do in this class**

Learn the theory of how the refrigeration cycle works. Wire electrical boards. Install a heat pump and connect line set, wiring, and ductwork. Use a pressure temperature chart.

## **Tools you will use**

Hand tools, air-acetylene, oxyacetylene, vacuum pump, recovery machine, scales, refrigerant gauge manifold, Electrical multimeter, sheet metal shear and brake.

## **Skills you will learn**

Electrical troubleshooting  
Soldering  
Brazing  
Fabricating ductwork  
Proper refrigerant recovery  
Charging and evacuation techniques  
Customer relations and soft skills

## **Major Units of Study**

Basic Safety  
Construction Math  
Introduction to HVAC  
Basic Electricity  
Introduction to Heating  
Introduction to Cooling  
Hand and power tools  
Air Distribution  
Soldering and Brazing

## **Example Job Titles**

HVAC Engineer  
HVAC Installer  
Refrigeration Technician  
Service Manager  
Solar Technician



# LAW & PUBLIC SAFETY



LA1020

*A society is defined by how it defines justice.*

The field of criminal justice offers some very exciting and rewarding career opportunities. With new breakthroughs in forensic technology and an ever-evolving domestic and international Criminal Justice landscape, it's almost guaranteed that a career as a law enforcement or criminal justice professional will be anything but boring. There is an ever expanding list of criminal justice and law enforcement career opportunities that welcome individuals with diverse educational and professional backgrounds.

Are you interested in serving and protecting as a uniformed officer on the street, solving crimes with clues at the scene, or defending the innocent in a courtroom? You will learn how to apply your talents to these various specialties in the Criminal Justice program.

Criminal Justice is challenging and rigorous. A strong academic background is recommended for students interested in applying for this program.

### Major Units of Study

- Intro to Criminal Justice
- Intro to Law Enforcement
- Crime Scene Investigation
- Criminal Law

### Example Job Titles

- Police Officer
- State Trooper
- Game Warden
- Detective
- Crime Scene Investigator
- FBI Special Agent
- DEA Agent
- Secret Service Special Agent
- Border Patrol Agent
- Correctional Officer

### Related College Programs

#### Criminology

WVU, Morgantown, WV

#### Criminal Justice

Blue Ridge CTC, Martinsburg, WV

#### Administration of Justice

HCC, Hagerstown, MD

#### Criminal Justice

Marshall University, Huntington, WV

#### General Law

George Mason University, Arlington, VA

“The Law and Public Safety class gave me so many opportunities to gain real-life, hands on experience in the court room and with many experts in the field. It lead me to internships, lifelong professional networks, and ultimately gave me a jump-start to my career. The best part was the friendships and memories I got to make along the way. — Caitlyn Kinsey

### What you will do in this class

Participate in debates over legal and ethical issues, learn and practice proper arrest procedures, operate a police car and conduct traffic stops, become a member of a CSI team and investigate staged crime scenes, participate in mock trials and intern in a criminal justice related field.

traffic scenarios, situational responses, crime scene investigations, and court proceedings

### Tools you will use

Duty belt with handcuffs, training firearm, flashlight, radio, police patrol car with radio, sirens and lights, uniform, crime scene kit with camera, evidence collection containers, sketching materials, measuring devices, computers, and mock court room.

### Skills you will learn

Tactical communication, proper arrest procedures, crowd control,



# MASONRY

NCCER Certified



AR1910

*Masons built the Great Pyramid of Giza, Stonehenge, and the Great Wall of China.*

**W**hat a mason builds lasts forever. It is an ancient trade that requires physical strength, stamina, and lots of skill. If you like making things with your hands and working outdoors, this is a rewarding career that pays very well.

Masons are some of the highest paid workers in the construction industry, and we need more. The demand for masons is projected to grow by 34% by the year 2022. Skilled masons can work anywhere in the world. This gives you the freedom to pick the job you want,

and the job security to keep it as long as you want.

Students in this class gain practical experience working on several projects, including jobs for the school and the community. You will build things that will still be in use when your grandchildren are in high school.

Students interested in pursuing careers in the construction field, like Architecture or Construction Management, will find the hands-on experience of the Masonry program very helpful.

## Major Units of Study

Introduction to Masonry  
Masonry Tools and Equipment  
Measurements  
Drawings and Specifications  
Mortar  
Masonry Units  
Installation Techniques

## Example Job Titles

Laborer  
Apprentice  
Bricklayer  
Stonemason  
Concrete Finisher  
Tile Setter  
Plasterer  
Foreman  
Project Manager  
Structural Engineer

## Related College Programs

### Construction Management

Westwood College, Annandale, VA

### Construction Engineering & Management

Virginia Tech, Blacksburg, VA

### Civil Engineering

Penn State, Harrisburg, PA

### Occupational Safety

Fairmont State College, Fairmont, WV

### Architecture & Environmental Design

Morgan State University, Baltimore, MD

“ I like masonry, because it’s a great trade and a lot of fun. I’ve had a blast this year doing projects in the shop, as well as throughout the school. — *Trevor Dunkelberger* ”

“ I like working with my hands and building things. I also like spending at least 80% of the time in the shop it’s much better than sitting in a classroom all day. — *Bruce Haynes* ”

## What you will do in this class

Lay brick, block, and stone, finish concrete, and set tile on live projects as well as practice projects.

## Skills you will learn

Job preparation and layout, laying masonry units to a line, building masonry leads, mixing mortar, cutting brick and block, estimating

## Tools you will use

Trowel, wheelbarrow, cement mixer, mallet, chisels, hammer drill, shovel, tape measure, plumb line, wet saw



# MULTIMEDIA PUBLISHING



AV1684

*Engage your audience with photos, video, sound, graphics, and text.*

The goal of communication is to inform and entertain. In the communications industry today, you need to do both. Students in this program get hands-on experience with telling stories across multiple media.

Find the stories you want to tell through journalism and creative writing. Make your stories more engaging with design, photography, and video. Then publish them in print, the web, and on mobile

devices. Get your work seen through online and social media marketing. Do all this in Multimedia Publishing at JRTI!

Work for someone else, or build your own brand and self-publish. Build an exciting future in the communications industry with your creativity. The opportunities are greater than ever for those who have the skills to capture an audience's attention.

### Major Units of Study

- Introduction to Visual Communication
- Digital Photography
- Videography
- Cross-Media Publishing

### Example Job Titles

- Photojournalist
- Production Assistant
- Videographer
- Editor
- Digital Media Specialist
- Social Media Marketer
- Graphic Artist
- Animator
- Web Designer

### Related College Programs

#### Communication Studies

WVU, Morgantown, WV

#### Media Production

Marshall University, Huntington, WV

#### Interactive Design for Media

WVU, Morgantown, WV

#### Communication and New Media

Shepherd Univ., Shepherdstown, WV

“ I am so happy to have taken this class because my teacher is able to explain things in a way that is exciting and easy to understand. He is a very fun teacher, and always open to learning from us as much as we learn from him. He believes that every student has creativity and with the right guidance and skills learned here you will be able to do whatever you want in life. This class gives many opportunities and prepares you for more than anyone can imagine. Everything I have learned and built on couldn't be done without Mr. Morgan. — *Caroline Knight* ”

### What you will do in this class

Shoot portrait, product, and macro photography. Design products to be sold in the school's online store. Create multimedia content including video, audio, and animation. Write blog articles. Design and print jobs for the school including T-shirts, raffle tickets, and the JRTI yearbook. Build a website for your portfolio to present your work.

### Skills you will learn

Photography, Recording and Editing Video and Audio, Basic Motion Graphics and 2D Animation, Graphic Design, Web Design, and Printing T-shirts

### Tools you will use

DSLR cameras, computers with Adobe Creative Cloud software, laser and inkjet printers, laminator, bindery tools, heat press

**Starting in the 2026-2027 school year, Multimedia Publishing will be a one-year program.**



# PLUMBING



AR2140

*Whether it's water, gas, or chemicals, plumbers keep it flowing.*

This course introduces the student to the knowledge base and technical skills of the Plumbing industry.

Plumbing begins with instruction in Basic Safety; Introduction to Construction Math; Introduction to Hand Tools; Introduction to Power Tools; Introduction to Construction Drawings; Basic Rigging; Basic Communication Skills; Basic Employability Skills; and Introduction to Materials Handling.

Students will then begin developing skill sets in the fundamentals of Plumbing such as Introduction to the Plumbing Profession and Plumbing Safety.

### **What you will do in this class**

Students will learn and apply industry safety practices, identify and use plumbing tools and materials, read blueprints, perform measurements and layout, and learn installation and maintain basic water supply and drain, waste, and vent systems. Through hands-on shop experiences and a simulated workplace environment, students will develop technical competencies, problem-solving skills, and professional employability behaviors while exploring career pathways, apprenticeship opportunities, and training in the plumbing trade.

### **Skills you will learn**

- Practice jobsite safety and PPE use
- Use plumbing hand tools and equipment
- Measure, cut, and assemble piping
- Install basic water and vent systems
- Read blueprints and simple schematics
- Apply trade math and measurements
- Demonstrate teamwork and professionalism

### **Tools you will use**

- Pipe wrenches and adjustable wrenches
- Pipe cutters and tubing cutters
- PEX crimping and expansion tools
- PVC primer, cement, and applicators
- Tape measures and levels
- Drills and basic power tools
- Threading and reaming tools

### **Major Units of Study**

Safety  
Service and Repair  
Joining Pipes and Fittings  
Drainage  
Vent Installation  
Water Supply and Distribution  
Hot Water Systems  
Installing Fixtures

### **Example Job Titles**

Residential Plumber  
Commercial Plumber  
Service and Repair Plumber  
Pipefitter / Steamfitter  
Drain Technician / Cleaner  
Plumbing Estimator / Project Manager  
Gas Service Technician

### **Related College Programs**

#### **Foundations of Plumbing**

Blue Ridge CTC, Martinsburg, WV

#### **Occupational Safety**

Fairmont State College, Fairmont, WV

#### **Construction Management**

Westwood College, Annandale, VA

#### **Construction Engineering & Management**

Virginia Tech, Blacksburg, VA

# PROSTART RESTAURANT MANAGEMENT



HO1010

## Who doesn't wish they could do what a chef can do?

There are tons of television shows about cooking and baking competitions. Cooking professionally requires skill, creativity, and the ability to work under pressure. What you see on those shows are chefs pushing those qualities to the limit. They are able to create works of art despite the strict limitations of the contest.

The key to their success is how they manage their team. Strong leadership, cooperation, and communication are what win those competitions, not the food. The menu is nothing without proper execution. The kitchen staff

have to work together smoothly for it to work. Under the chef's leadership, each person acts as a critical part of a well oiled machine.

Restaurants don't sell food. They sell a dining experience. Patrons pay for service and atmosphere just as much as what is on the menu. Again, every member of the staff plays an important role in making that experience the best it can be.

Learn to use creativity, leadership, and a love of food to turn your ideas into great dining experiences.

### Major Units of Study

Safety & Sanitation, Culinary Fundamentals, Culinary Math, Baking & Pastry, Nutrition, Menu Development, Garde Manger, Breakfast Cookery and Meat, Poultry and Seafood Identification & Fabrication.

### Example Job Titles

Research Chef  
Executive Chef  
Food & Beverage Director  
Beverage Manager  
Dietitian  
Executive Steward  
Catering Manager  
Food Stylist  
Food Photographer  
Banquet Manager

### Related College Programs

**Baking and Pastry**  
Culinary Institute of America, Hyde Park, NY

**Food Service Management**  
Pierpont CTC, Fairmont, WV

**Food & Beverage Management**  
Johnson & Wales, Providence, RI

**Hospitality and Tourism Management**  
Virginia Tech, Blacksburg, VA

“ I have been able to obtain a good grasp of the industry learning everything from baking cakes to braising meats. I have been able to experiment with foods new to me and of different cultures. ProStart gives an important work-based experience of the industry. — *Lee-Ann Frye* ”

### What you will do in this class

Participate in a simulated hotel workplace, and be given the responsibilities and tasks that are performed daily by hotel employees and management. Create, plan, cost, and execute menus, caterings, special events and run the class like a functioning kitchen, restaurant, cafeteria or food service establishment. Put your skills to the test in Statewide and National level competitions.

### Skills you will learn

Cutting and chopping techniques, cooking and baking fundamentals, menu preparation, costing, event planning

### Tools you will use

Kitchen knives and utensils, food grinders and processors, small mixers, oven, grill, salamander broiler



# ROBOTICS ENGINEERING



MA1630

*The future is being built today.*

How do you turn metal and plastic into something that makes life better? The world is full of problems waiting for a solution, and solutions waiting to be improved. Engineers are the ones who say “I can find a better way to do that”.

Through competition and project management, students in the Robotics program learn how to work as a team to develop solutions to engineering problems. The class is presented with specific challenges, and then students

develop solutions. They design and build a robot to perform the tasks presented in the challenge. Team members collaborate to brainstorm, research, and test mechanical designs and programming code.

Students in this program develop the problem solving skills needed to succeed in the challenging fields of computer science and engineering, with the interpersonal and leadership skills to prepare them for project management.

## Major Units of Study

Introduction to Robotics  
Engineering Notebook  
Robotic Systems  
Programming  
Motors, Gear Trains, and Motion  
Circuits and Schematics

## Example Job Titles

Mechanical Engineer  
Electrical Engineer  
Industrial Engineer  
Civil Engineer  
Aerospace Engineer  
Chemical Engineer  
Manufacturing Engineer  
Computer Science Engineer  
Electromechanical Engineer

## Related College Programs

### Robotics

Shepherd University, Shepherdstown, WV

### Mechatronics

Blue Ridge CTC, Martinsburg, WV

### Engineering

WVU, Morgantown, WV

### Engineering

Marshall University, Huntington, WV

### Engineering

Penn State, State College, PA

“I’m glad I took this class because it has taught me a lot about what goes into being an engineer. Robotics has given me insight into what I want my future career to be, as well as teaching me valuable information I can use in that career. — *Jamie Cooper*”

## What you will do in this class

Construct and program robots to perform various tasks. Compete in VEX and SkillsUSA competitions at the statewide level with the opportunity to compete in National and World level competitions. Prototype using a 3D printer and Autodesk software. Write and test programs in real and virtual simulations.



## Skills you will learn

Robot design and fabrication, prototyping and 3D printing, mobile robotics programming, electronic systems, sensors and motor control, basic applied physics

## Tools you will use

Windows PC’s, Microsoft Office, programming software, VEX robotic kits, programmable controllers, engineering journals, 3D design software, 3D printer, hand tools



# THERAPEUTIC SERVICES



HE0723

*We need health care more than ever.*

Based on an aging population, and a retiring workforce, the demand for health care workers will remain high for years to come. As the industry of healthcare changes and grows, an increasing number of career opportunities are becoming available inside and outside of the traditional hospital settings.

The Therapeutic Services program, is a two year program that allows the students to experience healthcare through exploring careers and being

fully emerged into the world of healthcare.

Students participate in the Health Occupation Students of America (HOSA), a national student organization that provides unique opportunities through competition, leadership development, motivation, and achievement recognition. HOSA members are students interested in pursuing careers in health professions. HOSA is 100% health care!

### Major Units of Study

- History of Healthcare
- Healthcare Systems/Insurance
- Anatomy and Physiology
- Healthcare Safety
- Medical Terminology
- Medical Math
- Human Growth and Development
- Infection Control
- Healthcare Communications
- First Aid/CPR
- Nutrition

### Example Job Titles

- Nurse
- Doctor
- Therapist
- Surgical Technician
- Dietician/Nutritionist
- Physical Therapist
- Insurance Coder
- Laboratory Technician

### Related College Programs

#### Veterinary Science

Marshall University, Huntington, WV

#### Nursing

Blue Ridge CTC, Martinsburg, WV

#### Internal Medicine

WVU, Morgantown, WV

#### Radiology

HCC, Hagerstown, MD

“Being in the Therapeutic Services program has taught me to be compassionate, empathetic, and unselfish because there are people that have medical conditions so severe that they have no will to live. I have learned that I want to be that soft voice that says, it’s ok, I’m here or the hand they hold when they are in pain. The clinical experiences that I have received during this course will help me in Nursing School, at Shepherd University. I have learned so many techniques that I feel like an experienced professional already. — *Kearsten Sanders*”

### What you will do in this class

Students experience what it’s like to work as a unit, make policy, use critical thinking to discuss ethical and medical scenarios, and educate the community around them. Students learn hands-on skills through working in health care facilities during on-site clinicals.

### Tools you will use

Hospital equipment, stethoscope, scale, first aid kit, personal protective equipment

### Skills you will learn

Measure and record vital signs. Practice nursing assistant skills, first aid, CPR, medical terminology, as well as patient care such as bathing, grooming, and mobility assistance



# WELDING TECHNOLOGY

AWS and NCCER Certified



MA1980

*Can you take the heat?*

Where would the auto, construction, ship building, or manufacturing industries be without welders? Whether it's an M1 Abrams tank or your grandfather's lawn mower, it can't be built or repaired without welders.

Welding is a very hands-on skill that requires physical strength, stamina, a strong understanding of the various materials used, and most of all, a meticulous attention to detail. This program appeals to students interested in physical work, but are willing to study the theory necessary to understand the science behind the work.

Welding has been a huge interest of mine since my seventh grade shop class. Since then, I have always wanted to learn all the different types of welding that the world may provide in my future endeavors. Mr. Albright has been an excellent instructor and welding educator over the past two years. James Rumsey Technical Institute Welding Technology Program delivers a relevant and rigorous curriculum and skill set, related to today's industrial welding career market. —  
*Stephen Wilt*

### What you will do in this class

Read blueprints. Measure, cut, bend, shape, and weld to join sheets, scraps, and tubing of various metals to fabricate parts for construction and equipment repair projects and jobs.

### Skills you will learn

Oxyacetylene, shielded metal arc, TIG, and MIG welding, blueprint reading, steel fabrication

### Tools you will use

Hand tools, cutters, grinders, oxyacetylene, shielded metal arc, TIG, and MIG welders

### Major Units of Study

Welding Safety  
Construction Drawings  
Rigging  
Oxyfuel Cutting  
Plasma Arc Cutting  
Air Carbon Arc Cutting and Gouging  
GMAW and FCAW-Equipment  
Physical Characteristics and Mechanical Properties of Metals  
GTAW-Equipment

### Example Job Titles

Apprentice Welder  
Commercial Welder  
Journeyman Welder  
Certified Pipe Welder  
Nuclear Welder  
Fabrication Welder  
Pipefitter  
Production Welder

### Related College Programs

#### Welding Engineer

WVU Parkersburg, Parkersburg, WV

#### Welding Technology

Bridge Valley CTC, Montgomery, WV

#### Industrial Maintenance Technology

WV Northern CC, Wheeling, WV





## **REQUEST TO INSPECT INSTRUCTIONAL MATERIALS**

Per Senate Bill 704 W. Va. Code §18-5-27, parents, custodians or guardians may request to inspect instructional materials. Instructional materials are defined as materials adopted by the county board of education, supplemental materials that are used in the classroom, and books that are available for the students to read. The bill permits classroom teachers to require parents, guardians or custodians to request an appointment to inspect the materials. The appointment must be scheduled by the classroom teachers within ten days of the request. Teachers are required to explain how the classroom materials relate to content standards adopted by the state board. If books are required class reading, teachers shall include the books on a class syllabus and make the syllabus available. A complaint form may be requested from JRTI Administration where a classroom teacher fails to comply with a provision of the bill. If the county does not resolve the complaint within seven days, the parent may file a complaint with the State Superintendent of Schools on a form made available by the State Superintendent.

**Are you currently in the  
8th or 9th grade?**



Try out hands-on learning at James Rumsey Technical Institute.  
Registration begins in October.

The **Summer Career Academy** provides students about to start 9th and 10th grade with a unique opportunity to explore the growing world of career & technical education. Taking cues from James Rumsey Technical Institute's Simulated Workplace curriculum, students are invited to participate in activities & live jobs related to some of the free high school courses that the school has to offer. This is a **FREE** program for students of the tri-county area (Berkeley, Jefferson, and Morgan).

Sign up on our website.  
[www.jamesrumsey.com](http://www.jamesrumsey.com)

