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Message from the President

Greetings!

It is my pleasure to welcome you to the Philadelphia Technician Training Institute!

PTTI is an exceptional post-secondary technical training experience. We offer a dynamic learning environment consisting of teachers, students and community partners working together to pursue excellence in technology. Students just like you, with your abilities and strengths, come to PTTI to learn new skills and pursue a career.

Taking advantage of what PTTI has to offer is a great beginning to your personal path to success. On behalf of our faculty, administration and alumni; I congratulate you on taking the first steps towards a promising future!

Sherman McLeod
President / CEO

Administration
Sherman McLeod................................................................. President
Donald Jackson................................................................. Director of Education
Dionne Lee................................................................. Director of Admissions
Stephen Robertson................................................................. Financial Aid Director
Carla Taylor-Hall................................................................. Financial Aid Assistant
Wajeehah Rashed................................................................. Student Accounts/Administrative Secretary
Erik Palmer-Bay................................................................. Attendance Director

Licensure and Memberships
- PTTI is licensed by the Pennsylvania State Board of Private Licensed Schools
- PTTI is accredited by Middle States Commission on Secondary Schools
Our Mission
Philadelphia Technician Training Institute (PTTI) is a post-secondary school that seeks to create a challenging technology-based learning environment that is instructor led and hands-on. PTTI encourages high expectations for success through development-appropriate technical instruction that allows for individual differences and learning styles to acquire technology skills and secure long-term employment in diverse industries.

PTTI’s vision is consistent with The Pennsylvania STEM (Science, Technology, Engineering and Math) Initiative which seeks to dramatically increase the number of students (especially females, minorities and the underrepresented) entering STEM-related careers.

Our school promotes a safe, orderly, caring, and supportive environment. We strive to have our students, faculty, and community members actively involved in our students learning process and employment opportunities. Opportunities are presented to recognize and use the student’s gifts and talents that will serve the student in all aspects of life. The PTTI’s programs of study are designed to provide the strongest entry level training to students entering the workforce.

Philosophy and Objectives
The Philadelphia Technician Training Institute seeks to prepare a student for an entry-level career. It is the school’s objective to impart knowledge, skills and confidence to students so that they may work successfully and experience enjoyment with what they accomplish in the field.

The school’s philosophy is one that promotes hands-on training and real-world education to prepare the student to meet the challenges as they occur in the field. These challenges are met by promoting learning, encouraging academic inquiry, and supporting the practical application of the technology training, all to enable the student to achieve success.

Facilities
The school’s training facility is designed for training and education in a number of technical fields. The school is easily accessible by public transportation and is located in the heart of Philadelphia. The school’s facilities consist of:

- 10,000 square-foot training and administrative facility
- Computer Lab & Internet presentation training center
- Two (2) Hunter Hawkeye alignment machines & four post lifts
- Six (6) two post vehicle lifts
- Pennsylvania Emission & Safety Equipment Training Center, OBDII & Dynamometer
- On-board diagnosis scanners (including Snap-On Modus & MT2500)
- Nachi Robotic Arm – 90, 150 & 270 Pound Lifting Units
- Nachi AR Robot Controllers
- 15.0 KVA Robotic Transformer
- Multi-Meters, Oscilloscopes, Cognex Vision Systems, Robotics
- Controls & Electrical Panels, Automatic Sequencing Machines & Packaging Equipment
- Thermal Arc 252i Fabricator Multi Process Welding Inverter
- Thermal Dynamics 52 Cutmaster Plasma Cutting System
- Thermal Arc 95 S Inverter Arc Welder
- Weldmark Auto Darkening Welding Helmet
- Diversi-Tech Inc. Downdraft Table Model MiniDD
Admission

Philadelphia Technician Training Institute (PTTI) maintains appropriate admissions standards, policies, and procedures designed to ensure that all enrolled students have the ability and the opportunity to succeed, both at the school and in their chosen careers.

Non-Discrimination in Admissions Policy
In accordance with Title IX of the Education Amendments Act of 1972, PTTI does not discriminate in admission or any other aspect of our programs on the basis of race, religion, ethnicity, sex, age, disability, sexual preference, or national origin.

Applicants with disabilities must be physically able to complete the training program with reasonable accommodations. Further, certain physical and intellectual abilities are bona fide occupational qualifications and thus certain disabilities might disqualify a student from any potential employment. Please check with the Admissions Office if you have a disability that might interfere with your ability to succeed in school or in your chosen career.

General Requirements for Admission
In order to be accepted to PTTI as a regular student, an applicant must:

- Express a desire to pursue higher education, and to pursue an associated career,
- Possess a valid high school credential (diploma), or equivalent credential,
- Participate in a Personal Admission Interview and campus tour (see details below),
- Achieve appropriate scores on tests of basic reading skills, mathematical skills, and mechanical aptitude,
- Be a U.S. Citizen, legal resident, or otherwise legally eligible to study in the United States,
- Be at least eighteen years of age as of the class start date or seventeen years of age and have the legal permission of a parent or legal guardian, and
- Pay the appropriate Registration Fee.

Personal Admissions Interview
Each individual who seeks admission to PTTI will be interviewed by an Admissions Officer prior to acceptance. The interview is designed to:

- Explore the prospective student’s background and interest as they relate to the programs offered at PTTI,
- Assist prospective students in identifying an appropriate area of study consistent with their interests and abilities,
- Provide general information concerning the school, its facilities, its policies, and the available support services for students, and
- Determine the prospective student’s level of motivation and evaluate whether the candidate possesses the minimum verbal and written communication skills required for success in the program.

Prospective students will also tour the campus at the time of the Personal Admission Interview. Arrangements for an interview and tour of PTTI may be made by contacting the Admissions Department.
Transfer of Credit (Credit for Previous Training)

PTTI welcomes applications for admission from students who have studied at other accredited post-secondary education institutions. Transfer applicants are subject to the regular admission requirements of the school.

PTTI will accept transfer credits from post-secondary institutions accredited by an agency recognized by the U.S. Department of Education, and legitimate foreign institutions as determined by the school. Transfer credits will be granted on a course-by-course basis based upon substantially equivalent course content. No course for which a student received a grade of less than 2.0 ("C" or equivalent) will be accepted for transfer. PTTI reserves the right to validate the student’s knowledge through assessment mechanisms prior to accepting transfer credit. Regardless of how many credits a student may obtain through transfer or other means, each student must earn at least 50% of all clock hours in their program “in-residence” at PTTI.

Application Procedure

Students who choose to enroll must complete an Enrollment Agreement. The student will generally complete the Agreement when visiting the campus for the personal interview and tour.

Required Documentation

Prior to beginning classes at PTTI, an applicant must provide the following documents (as appropriate to the individual applicant):

- Copy of Driver’s License or Release Form* (Automotive Tech & Repair Program only),
- Signed Enrollment Agreement (parent signature also required if under eighteen),
- Official high school transcript, copy of high school diploma, home-schooling documentation, or copy of GED Certificate (as appropriate), and
- Official college/higher education transcript (for transfer credit only).

If the applicant is unable to provide one or more of the above documents, the Admissions Office may allow the applicant additional time (up to thirty days after the start of classes) to obtain the appropriate documentation. If the required documents are not submitted within this timeframe, the school may rescind the student’s acceptance, at the discretion of the Director of Education or the Director of Administration.

Override Authority: The Director of Administration (or the President in the absence thereof) has the authority to override certain requirements (indicated above with an asterisk *) for purposes of allowing the student to start classes.

Home-Schooled Students

Students who received their high school education through home-schooling must submit documentation appropriate under laws of the State in which the home-schooling occurred.

Satisfactory Payment Arrangements

No student will be allowed to begin classes at PTTI without making satisfactory arrangements to pay for the training provided. Satisfactory arrangements may include a combination of methods, including: financial aid (including Federal Pell grants, PHEAA Grants, federal student loans and federal parent loans), veterans’ benefits, other outside aid, private education loans, payment plans, and/or personal payment (cash, check, money order or credit card).
Academic Policies

Grading Policies
Grades will be determined by a combination of instructor evaluation, hands-on assessments and tests. Each course has unique combinations of activities, learning, assessments, and tests, and is determined by the instructor who notifies students of how they are evaluated at the beginning of each class through the course syllabus. In general the following will be applied to component course grades: Midterm and final exams – 60%, tests, quizzes and Attendance – 10%, teacher evaluations – 30% and the minimum passing grade for a component course will be 70%. Student performance will be evaluated at the midpoint and last week of the course by the instructor. Grade reports will be given to the student at the completion of each component course. A copy of each student’s grade report for component courses will be kept in the student’s permanent record kept at the school. The instructors will grade and return all assignments in a timely fashion after the students’ completion of the given assignment.

<table>
<thead>
<tr>
<th>Component Course Assignment Grades</th>
<th>Component Course Grades</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grade Scale</td>
<td>Grading Scale</td>
</tr>
<tr>
<td>A = 90% to 100%</td>
<td>A = 90% to 100%</td>
</tr>
<tr>
<td>B = 80% to 89%</td>
<td>B = 80% to 89%</td>
</tr>
<tr>
<td>C = 70% to 79%</td>
<td>C = 70% to 79%</td>
</tr>
<tr>
<td>F = 69 or less</td>
<td>F = 69% to 00%</td>
</tr>
<tr>
<td>WP = Withdraw Passing</td>
<td>WP = Withdraw Passing</td>
</tr>
<tr>
<td>WF = Withdraw Failing</td>
<td>WF = Withdraw Failing</td>
</tr>
</tbody>
</table>

Program Final Grades Corresponding GPA

| A = 90% to 100%                      | 4.0 |
| B = 80% to 89%                       | 3.0 |
| C = 70% to 79%                       | 2.0 |
| F = 69% or below                     | 0.0 |

Graduation Requirements
In order to graduate from a program, a student must:

1. Successfully complete the academic requirements listed in the “Academic Progress”.
2. Be in good standing as defined in “Student Conduct”.
3. Fulfill all financial commitments to the school.
4. Be in good standing with required attendance listed in “Attendance Policy”.
5. Schedule an exit interview with a school official to assess the student’s status and plans for gaining employment.
6. Successfully complete the Internship experience with a passing evaluation.

Upon completion of a course, students will receive a grade transcript for that course. Upon successful completion of a program students will receive a diploma and/or any certification(s) provided the student has fulfilled all financial, attendance, student and academic obligations to the school.
Attendance Policy
All instructors will record hourly attendance in each classroom/theory or laboratory/shop session. Attendance in external internship is recorded either by the on-site faculty or by the employer (and monitored by a member of the faculty). Students are expected to attend and actively participate in all instructional sessions and are expected to notify the Registrar’s Office prior to class if they will be absent, late, or leaving early.

Students are required to be in attendance for at least 70% of all scheduled hours in each course. Students whose attendance is less than this standard will not be allowed to take the final test for the course (or receive a passing grade for the course) until the student has attended sufficient “make-up” hours to meet the standard. All make-up hours must be completed (and the final test passed) within thirty calendar days of the last scheduled date of the course. Students must complete 100% of all required hours in any internship course, hence any hours of absence must be “made-up” with additional hours.

Students who are absent from classes for a consecutive fourteen calendar day period shall be deemed to have “unofficially withdrawn”, and will be administratively withdrawn from the school.

Tardiness Policy
Students who arrive late to a classroom/theory or laboratory/shop session will be charged a one-half hour absence upon being five minutes late for any session, and will be charged as absent for the entire hour upon being fifteen minutes late. Students who leave earlier than their scheduled departure time, or are late returning back from established breaks will be charged using the same formula. These late hours will be charged against the student’s overall attendance for calculation under the Attendance Policy (above).

Excused Absences
Students with a legitimate reason for missing class may be granted an “excused absence” for one day or a period of up to three consecutive days. Excused absences are not charged against a student in the attendance policy, and make-up hours are not required. In general, excused absences require advance notice and approval by the Director of Education. Except in unusual circumstances, excused absences will not be granted retroactively. A student’s total excused absences may not exceed 10% of the scheduled instructional hours in any payment period. Excused absences are not permitted during an internship. (All absences from internship hours must be made-up).

Leave of Absence
Occasionally students encounter a medical, personal, or family crisis that requires an extended absence from classes. A student in this situation may be granted a Leave of Absence (LOA) for a period of time not to exceed 180 days at the discretion of the President. A Leave of Absence (LOA) is a planned absence. A student must request an LOA by providing a written, signed, and dated request, which must include the reason for the request. The LOA request must be approved by the President (or designee) prior to the first day of absence for the leave. However, if extreme and unforeseen circumstances prevent a student from providing a prior written request, the President may grant the student’s request for an LOA up to seven days after the first day of absence for the leave. The return date from the LOA shall be established upon the granting of the leave, and shall be designed for the student to re-join the school in a
subsequent class cohort at a point in the program no further ahead than the point at which the leave began. A student who fails to return by the established return date is considered withdrawn from the school.

**Official Withdrawal Policy**

A student who intends to withdraw from the school is expected to notify the Registrar’s Office of his/her intent to withdraw. Whenever possible, the notification shall be either in written or in-person format. Withdrawal notifications by telephone, e-mail, or other communications method are deemed an “official withdrawal” based upon the credibility of the communication in the judgment of an appropriate school official. In rare cases, the school may accept third-party notifications, particularly when the student may be incapacitated or otherwise unable to communicate with the school.

**Academic Progress**

This Satisfactory Academic Progress (SAP) policy applies to all students registered in any eligible program at Philadelphia Technician Training Institute (PTTI). Each student is required to make satisfactory academic progress towards the completion of their program. Academic progress is measured both by grade point average (qualitative standard), and by the amount of hours of attendance in the program of study (quantitative standard).

**Course Policy**

All of the programs at PTTI are technical in nature and the achievement of both a passing grade and technical proficiency in each course (academic subject) is required for graduation. Students are expected to maintain appropriate attendance and passing grades in each and every course. Any student who fails a course or is unable to take the examination for a course because of poor course attendance will be allowed to continue to the subsequent course(s) while actively pursuing make-up hours/examinations as appropriate and acceptable to the school’s faculty.

Students who fail to adequately complete make-up hours/examinations will be suspended from the school. Suspended students may request re-admission by submitting a written request to the Director of Administration and attending an academic counseling session. Based upon the results of the counseling session, the suspended student may be permitted to return to the school in a subsequent class cohort at the discretion of the Director of Administration.

**Academic Progress Policy**

In addition to the requirements of the Course Progress Policy (which measures progress in each individual course), each student must meet the cumulative Academic Progress Standards throughout his/her program. The cumulative standards are measured each “payment period” (see definition below) and are designed on the premise that each student’s average performance over a series of courses will be substantially higher than the minimum standard for each individual course.

<table>
<thead>
<tr>
<th>Academic Progress Standards:</th>
<th>Minimum Cumulative Grade Point Average</th>
<th>Cumulative Hours Completed/Attempted</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>End of 1st payment period</strong></td>
<td>2.00</td>
<td>70 percent</td>
</tr>
<tr>
<td><strong>End of 2nd or subsequent payment period</strong></td>
<td>2.00</td>
<td>80 percent</td>
</tr>
</tbody>
</table>
Additional "Maximum Timeframe" Standard
Eligibility is also limited to students completing their programs within one and one-half times the normal program length. The maximum timeframe is reached when the student has exceeded one and one-half times the number of scheduled clock hours required to graduate from his/her program, as measured by weeks of instruction. For students with standard enrollment (no transfer or proficiency credit), the maximum timeframe to complete a twenty-six week program is thirty-nine weeks (excluding periods of non-enrollment).

Consistence with Academic Policies
For purposes of Academic Progress measurement, all issues of grading policy, Grade Point Average (GPA) calculation, attendance, etc. are calculated in accordance with the general academic policies of the school.

Payment Periods
Academic Progress shall be measured at the end of each “payment period”. A “payment period” is defined as one-half (as measured in both weeks and instructional hours) of the student’s program (or remaining period of the program for any student attending less than the entire program length). For students who are eligible for Federal Title IV Financial Aid, these correspond to the “payment periods” for financial aid.

Completed/Attempted Clock Hours
“Attempted Clock Hours” means the number of scheduled instructional hours (clock hours) in the program as listed in the PTTI calendar for the enrolled program. “Completed Clock Hours” means the number of “attempted” clock hours a student actually attended or for which he/she received an excused absence.

Transfer Students
Accepted transfer credit shall be considered as completed coursework for purposes of this policy. However, since no grades are assigned to transfer courses, they will not impact the student’s GPA. Payment periods for transfer students shall be defined individually based upon the remaining period of instruction.

Change of Program
Students who change programs may request that their maximum timeframe be re-calculated based solely on those clock hours that are applicable to the current program of study.

Return after an Absence
A student who returns after a withdrawal, dismissal, approved Leave of Absence (LOA), or other absence of 180 calendar days or less, shall be evaluated in the same manner as if the absence had not occurred, with the exception of any necessary changes to the start and end dates of a planned payment period.

A student, who returns after a withdrawal, dismissal, or other absence of more than 180 days, shall be measured in a manner consistent with a transfer student as noted above.
Academic and Financial Aid Warning Status

Students who fail to meet the standards defined above will be placed on Academic and Financial Aid Warning Status for their subsequent payment period. Students in Academic and Financial Aid Warning Status remain eligible for federal student aid.

If a student has not returned to “good” academic standing (according to the standards in the chart) by the end of the Warning Status payment period, the student will be academically dismissed from the school and lose eligibility for federal student aid from that point forward. Such dismissal/loss of eligibility may be subject to appeal (see below).

Regaining Academic Eligibility

Mitigating Circumstances Appeal: A dismissal (and loss of eligibility for federal financial aid) may be appealed based on mitigating circumstance(s). A mitigating circumstance is defined as an exceptional or unusual event(s) beyond the student’s direct control, which contributed to or caused the academic difficulty. Examples include: the death of a relative, an injury or illness of the student, or other special circumstances. Appeal letters should be addressed to the Financial Aid Director and must include a complete description of the circumstances that led to the academic difficulty, how those circumstances have changed, and a plan for future academic success. Copies of supporting documentation should be included. All appeals are reviewed by a committee of academic and administrative staff whose determination is final.

A student for whom a mitigating circumstance appeal is approved will be placed in Academic and Financial Aid Probation Status for one payment period. If the student has not returned to good academic standing (according to the chart) by the end of the subsequent (probation) payment period, the student will be dismissed from PTTI and lose eligibility for future financial aid.

Regaining Eligibility Other Than Through Appeal: Students who have been academically dismissed from the school (and lost federal financial aid eligibility) may potentially regain academic eligibility by making up the academic deficiencies at the school as a student in Provisional Status without benefit of federal financial aid. The decision to re-admit a dismissed student is at the discretion of the Director of Administration.

Return to Good Standing

Once a student has returned to good academic standing, any previous academic difficulty, warning, or probation shall have no future bearing on the student’s status. Hence, such students will have benefit of all provisions of this policy, including a warning payment period.

Curriculum Changes

The school reserves the right to make modifications in the school’s curriculum as it deems necessary with input from students, teachers, faculty, Board of Advisors and Board of Directors. These changes will be for the benefit of PTTI students and consistent with current industry practices for career and job attainment.
Student Services

Student Orientation
New Student Orientation is scheduled in large, small group, or individual sessions. You will receive notice of a session based upon your program of study and the date of your first class. The school’s orientation program is full of useful information students can use during the first week of classes.

During orientation you will have an opportunity to:

- interact with staff, faculty and other students,
- identify academic and student support services,
- understand faculty expectations and school policies,
- access your registration information and your e-mail account,
- ask pertinent questions about programs of study, important dates to remember, academic support services, and how it influences course outcomes in your education and hands-on course work, and
- know what it takes to be successful at Philadelphia Technician Training Institute.

Parent Orientation
In addition to student orientation, PTTI also offers a Parent Orientation. The main goal of Parent Orientation is to provide a clear understanding of the resources available for students and is an opportunity for parents to learn how PTTI works to serve students and positively impact student success. The more informed and engaged parents are, the greater our students’ success. Parents wishing to schedule an Orientation should contact the Admissions Office at 215-381-9403 for further information.

Job Placement Assistance
PTTI provides placement assistance to each graduate. Placement into a job at completion of training is not guaranteed. Each student should be actively involved in the process on a daily basis by coming to Philadelphia Technician Training Institute at 7446 D Ogontz Avenue in Philadelphia to receive interview schedules, resume updates, use the internet for online job leads/applications, receive calls from employers, and counseling, as well as refresher training as required to secure employment. PTTI uses a proprietary process to place individuals into the automotive technology/repair, manufacturing and welding fields.

Housing
The school does not have apartments or dormitories. The school will assist students to acquire suitable housing while attending the school. The school will keep on hand local publications listing apartment availability to assist the student with housing.
Student Advisement
The school has established a system of advising students. Students will be assigned to a staff member to contact in the event of an academic problem. The staff member will meet with the student to try and work out a solution to the difficulty. If there are additional difficulties, the student will be provided outside tutoring services to remedy any further academic problems.

Personal Counseling
At times students may experience academic and personal difficulties while working on their diploma. This could be due to many reasons including dealing with a new academic program, a new culture, pressure to succeed, or a change in financial situation. If a student should find that class/lab work is suffering because of a personal problem they should contact a school official. The school keeps a complete file of phone numbers/social service agencies that can assist and students should be confident that these matters will be kept in strict confidence.

Services to Students with Disabilities
PTTI will make reasonable accommodations for students with disabilities. It should be noted that due to the technical nature of our programs, some places within our facilities are not accessible to mobility-impaired persons. Further, students with disabilities must be physically able to complete the training program with reasonable accommodations. Also, certain physical and intellectual abilities are bona fide occupational qualifications and thus certain disabilities might disqualify a student from any potential employment.

Family & Friends
Please note that family and friends are encouraged to attend graduation ceremonies. In the event that onsite ceremonies include activities such as picnics, presentations, or sporting events, you will be provide advanced notice.

Privacy of Student Records and FERPA
General Privacy Policy: Philadelphia Technician Training Institute carefully protects all nonpublic personal information in our possession regarding students and their families. The school will not release nonpublic private, personal, or financial information about our students or applicants to any third party, except as specifically provided in this policy. The school will release certain nonpublic personal information to federal and state agencies, government contractors, student loan providers/servicers, and other parties as necessary for the administration of the federal student aid programs, for enforcement purposes, for litigation, and for use in connection with audits or other investigations. Disclosure is permitted to law enforcement or emergency services agencies in the performance of their duties or when student safety or health may be in jeopardy. The school will not sell or otherwise make available personal information for marketing purposes to any third party at any time.

Protection of Personally Identifiable Information (PII): The school employs office procedures and password-protected computer systems to ensure the security of paper and electronic records. All physical access to paper records, files, and storage is controlled by employees of the school, and no unauthorized access is permitted. Our computer systems offer a high degree of resistance to tampering and intervention. The school does not disclose more specific details
of its internal security procedures to students or the general public to protect the effectiveness of those procedures.

**School Official:** A "School Official" is a person employed by the school in an administrative, supervisory, academic, research, or support staff position; a person or company with whom the school has contracted (such as an attorney, auditor or accrediting agency); a person serving on the Board of Directors; or a student serving in an official position/capacity, or assisting a School Official in performing his/her tasks.

A School Official can access a student’s record when and if the School Official has a legitimate educational interest in order to fulfill his/her professional responsibility (need-to-know). Such access does not constitute authorization to share that information with a third party without the student's written consent.

**Financial Aid Information:** Certain information necessary for the processing of federal financial aid programs may be disclosed to parents of dependent students. In order for a person to be considered a “parent” for this purpose, the individual must be listed as such on the student’s Free Application for Federal Student Aid (FAFSA) application. Further, certain information necessary for the administration of Federal Student Aid may be released to federal and state agencies, government contractors, student loan providers/servicers, and other parties.

**Directory Information:** The school may disclose certain “Directory Information” about a student without the student's permission. Philadelphia Technician Training has designated the following as Directory Information:

- student's name
- academic program
- participation in officially-recognized activities
- dates of attendance
- graduation date
- previous educational institution(s) attended
- degrees, honors, and awards received

The school will honor requests from students who seek a higher level of privacy by not disclosing Directory Information upon written request to the Registrar.

**Students’ Rights under FERPA**

Students have certain specific rights under FERPA, as follows:

**Right to Review Educational Records:** FERPA affords students certain rights with respect to their educational records. Students have the right to review their educational records within 45 days of the day the school receives a written request for access. Students requesting a review should submit to the Registrar a written request that identifies the record(s) they wish to inspect. The Registrar will notify the student of the time and place where the records may be inspected. If the specific requested records are not maintained in the office of the Registrar, the student will be advised of the correct official to whom the request should be addressed.

**Right to Request an Amendment:** Students have the right to request an amendment to educational records that are believed to be inaccurate. Students requesting a change must submit a written request to the School Official responsible for the record, clearly identify the part
of the record they want changed, and specify why it is inaccurate. If Philadelphia Technician Training Institute decides not to amend the record as requested by the student, the school will notify the student of the decision and advise the student of his or her right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.

**Right to Consent to Disclosures:** Students have the right to consent to disclosures of personally identifiable information contained in the student’s educational records, except to the extent that FERPA authorizes disclosure without consent. Students wishing to provide a general release of information to a specific person or persons may complete a **FERPA Release Form** and submit it to the Registrar.

**Right to File Complaint:** Students have the right to file a complaint with the U.S. Department of Education concerning alleged failures by Philadelphia Technician Training to comply with the requirements of FERPA. The name and address of the office that administers FERPA is:

*Family Policy Compliance Office*
*U.S. Department of Education*
*400 Maryland Avenue, SW*
*Washington, DC 20202*

**Employee Policies:** All employees are strictly enjoined to protect the personal information of students, including adherence to the following:

- Student PII shall not be removed from the premises or transported to other sites except with specific permission of the President. This includes not only paper documents but also student PII in laptop files or other forms of electronic media/storage.
- Employees shall utilize secure (complex) passwords for all electronic systems, and shall not store printed or written notes of passwords in their desk or work area.

Employees shall not leave any documents or folders containing PII in any public areas of the campus, nor shall they leave such documents unattended.

**Pennsylvania Human Relations Act (PHRAAct)**
The PHRAAct prohibits discrimination because of an applicant’s or current student’s race, color, sex, religion, ancestry, national origin handicap or disability, record of a handicap or disability, or relationship or association with an individual with a handicap or disability, use of a guide or support animal, and/or handling or training of support or guide animals. PTTI’s policy against discriminatory harassment can be located on the PTTI website.

**Pennsylvania Fair Educational Opportunities Act (PFEOAct)**
The PFEOAct prohibits discrimination against prospective and current student of any postsecondary institution and any secondary or postsecondary secretarial, business, vocational or trade school subject to the visitation, examination or inspection of and/or actual or potential licensure by the Department of Education because of a prospective or current student’s race, religion, color, ancestry, national origin, sex, handicap or disability, and/or relationship or association with an individual with a handicap or disability. PTTI’s policy against discriminatory harassment can be located on the PTTI website.
Financial Information

Program Tuition, Fees, and Other Costs
Detailed information on student costs at Philadelphia Technician Training Institute is contained in the addendum to this catalog.

Financial Aid

PTTI participates in the Federal Student Aid Programs authorized under Title IV of the Higher Education Act of 1965 (as amended) and administered by the U.S. Department of Education. The school participates in the Federal Pell Grant, Federal Direct Stafford Loan, and Federal Direct PLUS Loan programs.

PTTI is approved for the training of veterans and other persons by the Commonwealth Workforce Development System, and will certify eligible students for VA Educational Benefits.

Students/applicants are encouraged to submit their Free Application for Federal Student Aid (FAFSA) on-line at www.fafsa.gov as soon as possible to expedite the financial aid process. Of course, our dedicated, professional Financial Aid Office staff is available by telephone or in-person if you have any questions during the application process, and detailed instructions for the process are available on our website at http://ptt.edu/index.php/financial-aid/how-to-apply.

Cancellation, Termination and Refund Policies
Tuition and Fees Refund Policy: The following refund policy applies to students who withdraw, cancel their Enrollment Agreement, have their enrollment terminated by the school, or otherwise discontinue attendance at Philadelphia Technician Training Institute. Refunds are calculated based upon the "term", which is generally equivalent to one-half of the program (450 scheduled clock hours over a period of approximately thirteen weeks):

- If an applicant is rejected by the school before actually attending class he/she will receive 100% refund of all monies paid.
- If an applicant withdraws within 5 calendar days of signing the enrollment agreement, he/she is entitled to a full refund of all monies paid.
- If an applicant withdraws after 5 calendar days of signing the enrollment agreement but prior to the program start, he/she is entitled to a refund of all monies paid less the Registration Fee.
- For a student withdrawing from or discontinuing the program during the first 7 calendar days of the term the student shall be refunded at least 75% of the tuition for the term.
- For a student withdrawing from or discontinuing the program after the first 7 days, but within the first 25% of the term, the tuition charges refunded by the school shall be 55% of the tuition for the term.
For a student withdrawing from or discontinuing after 25% but within 50% of the term, the tuition charges refunded by the school shall be at least 30% of the tuition. For a student withdrawing from or discontinuing the program after 50% of the term, the student is entitled to no refund.

The termination date for refund computation purposes is the “Withdrawal Date”, which is the last day of attendance (LDA) as documented in the school’s official attendance record.

If a student’s enrollment is terminated by the school for any reason, he/she will still be entitled to the appropriate refund according to the policy.

Refund Processing: All refunds will be issued within thirty days after the school has determined that the student has withdrawn. Refunds to students who officially withdraw or are terminated once classes have begun will be made within 30 days from the last date of attendance (LDA).

Program Cancellation: If the school cancels or discontinues a program for any reason, the school shall refund all monies paid for tuition and fees (to all students currently enrolled in the affected program). Such refund will be made no more than 30 days from the notice of cancellation.

Failure to Return from LOA: Refunds to students who are terminated because of failure to return as scheduled from a Leave of Absence will be calculated from the last day of attendance (LDA) and paid (refunded) within 30 days of the last scheduled day of Leave of Absence.

Books and Supplies
Books and supplies are included in the tuition charges. Students are encouraged to return any unused books and supplies in new, reusable condition.

Return To Title IV (R2T4)
When a student withdraws or his/her enrollment is otherwise terminated, the school will not only calculate the amount of tuition/fees that will be refunded to the student (if any), but also the amount of federal student financial aid (“Title IV”) that must be returned to the Federal Student Aid Programs (if any). This process is referred to as “Return to Title IV” (R2T4). The calculation of R2T4 has no relationship to the tuition and fees that the student may owe to the school. The R2T4 calculation is performed using forms and/or software provided by the U.S. Department of Education for that purpose, and all transactions shall be completed within forty-five days after the school becomes aware of the student’s withdrawal/termination (Date of Determination).

R2T4 Calculation Information: Title IV funds are earned in a prorated manner based upon calendar days. R2T4 is required up to the 60% point in the payment period based upon the pro-rata methodology. (A “payment period” is generally one-half of the student’s period of enrollment at PTTI – consult with the Financial Aid Office for more information). After the 60% point in the payment period, a student is considered to have earned 100% of the federal student financial aid funds they were eligible to receive.

The percentage of the payment period completed is the total number of scheduled clock hours (in the payment period for which financial aid has been awarded) that have already occurred as
of the Withdrawal Date, divided by the total number of scheduled clock hours in that payment period (usually 450 clock hours).

If, based on the calculation, the student has earned less than the amount of Title IV funds disbursed, the unearned funds must be returned. The school must return the lesser of:

- the amount of federal student financial aid funds that the student has not earned, or
- the amount of institutional charges that the student incurred for the payment period multiplied by the percentage of federal student financial aid funds that were not earned.

The student (or parent, in the case of a PLUS loan) must return or repay, as appropriate:

- any Federal Direct Student Loan Program or Federal PLUS funds in accordance with the contracted terms of the loan, and
- the remaining unearned federal grant funds (not to exceed 50% of the grant owed) as an “overpayment” of the grant (see below).

Refunds are calculated according to applicable federal laws. All returned funds for which the school is responsible will be issued promptly after the school has determined that the student has withdrawn and the applicable return calculations have been completed.

**Overpayments:** Any amount of unearned federal grant funds that a student must return directly is called an “overpayment”. The maximum amount of a grant overpayment is one half of the grant funds received or scheduled to be received. While this occurs very rarely, students in this circumstance must make arrangements with the school and/or the U.S. Department of Education to return the unearned grant funds. Failure to do so will result in loss of future eligibility for Federal Student Aid and potential other legal actions by the U.S. Department of Education.

**Financial Aid Programs R2T4 Refund Sequence:** Unearned funds returned by the school must be credited to outstanding balances on Title IV loans made to the student or on behalf of the student for the payment period for which a return of funds is required. Those funds will be credited to outstanding balances in the following order:

1. Unsubsidized Federal Direct Stafford Loan,
2. Subsidized Federal Direct Stafford Loan, and
3. Federal Direct PLUS Loan received on behalf of the student.

If unearned funds remain to be returned after repayment of all outstanding loan amounts for the payment period, the remaining excess must be credited to any amount awarded for the payment period in the following order:

1. Federal Pell Grant,
2. Federal SEOG, and
3. Other grants or loan assistance authorized by Title IV of the Higher Education Act.

**Post-Withdrawal Disbursement:** The school will disburse Federal Pell Grant funds that had not yet been disbursed at the time of the student’s withdrawal/termination, but for which the student remains eligible under the R2T4 calculation. In the case of student or parent loan funds, the school will calculate the student (or parent’s) eligibility for a “post-withdrawal
The Financial Aid Office will advise the student and/or parent borrower of the amount(s) available and the fourteen calendar day deadline to accept or decline the post-withdrawal disbursement. If a response is not received from the student and/or parent within the permitted time frame or the student declines the funds, the school will not request the funds from Title IV programs. If the post-withdrawal disbursement is accepted, the funds will first be used to settle any outstanding financial obligation to the school.

**Calendar**

**Holiday Calendar 2015-2015**
The school operates year-round Monday through Friday (with occasional make-up hours on Saturdays). The school will be closed for the following holidays:

<table>
<thead>
<tr>
<th>Holiday</th>
<th>2014</th>
<th>2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>New Year’s Day</td>
<td>Wednesday, January 1</td>
<td>Thursday, January 1</td>
</tr>
<tr>
<td>Martin Luther King Day</td>
<td>Monday, January 20</td>
<td>Monday, January 19</td>
</tr>
<tr>
<td>President’s Day</td>
<td>Monday, February 17</td>
<td>Monday, February 16</td>
</tr>
<tr>
<td>Memorial Day</td>
<td>Monday, May 26</td>
<td>Monday, May 25</td>
</tr>
<tr>
<td>Fourth of July</td>
<td>Friday, July 4</td>
<td>Saturday, July 4</td>
</tr>
<tr>
<td>Labor Day</td>
<td>Monday, September 1</td>
<td>Monday, September 7</td>
</tr>
<tr>
<td>Veterans Day</td>
<td>Tuesday, November 11</td>
<td>Wednesday, November 11</td>
</tr>
<tr>
<td>Thanksgiving Holiday</td>
<td>Thursday, November 27</td>
<td>Thursday, November 26</td>
</tr>
<tr>
<td>Christmas Holiday</td>
<td>Wednesday, December 24</td>
<td>Thursday, December 24</td>
</tr>
<tr>
<td></td>
<td>Thursday, December 25</td>
<td>Friday, December 25</td>
</tr>
<tr>
<td></td>
<td>Friday, December 26</td>
<td></td>
</tr>
</tbody>
</table>

**Daily Class Schedule**

**Day Division:** – Fulltime: 8:00 am - 3:10 pm, Monday through Friday, as follows:

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 am</td>
<td>Class begins</td>
</tr>
<tr>
<td>9:40 am - 10:00 am</td>
<td>Morning break</td>
</tr>
<tr>
<td>11:40 am - 12:20 pm</td>
<td>Lunch break</td>
</tr>
<tr>
<td>2:00 pm - 2:20 pm</td>
<td>Afternoon break</td>
</tr>
<tr>
<td>3:10 pm</td>
<td>Classes end for the day</td>
</tr>
</tbody>
</table>

**Evening Division:** – Fulltime: 3:00 pm - 10:00 pm, Monday through Friday, as follows:

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>3:00 pm</td>
<td>Class begins</td>
</tr>
<tr>
<td>4:40 pm - 5:00 pm</td>
<td>Early Break</td>
</tr>
<tr>
<td>6:40 pm - 7:20 pm</td>
<td>Lunch break</td>
</tr>
<tr>
<td>9:00 pm - 9:20 pm</td>
<td>Late break</td>
</tr>
<tr>
<td>10:00 pm</td>
<td>Classes end for the evening</td>
</tr>
</tbody>
</table>

Class schedules are adjusted to accommodate holidays. In the event of class cancellation for inclement weather or other unscheduled event, a notice will be sent through the school’s text message alert system. Such cancellations may necessitate the scheduling of mandatory make-up hours on a subsequent Saturday.
General Policies and Disclosures

Consumer Information
The Philadelphia Technician Training Institute website contains consumer information mandated by numerous governmental agencies. The consumer information webpage can be accessed at http://ptt.edu/index.php/consumer-information. The information includes:

Jeanne Clery Campus Security Report and Policy
This Report contains an itemized listing of crimes and certain other offenses committed on the campus and the adjacent public areas in the past three years. The Policy highlights PTTI’s methods for protecting student security, and for informing the students and the campus community of any crimes that may pose a threat to safety. The Report and Policy can be found at http://ptt.edu/index.php/consumer-information/campus-security.

Drug Awareness and Prevention Policy
PTTI maintains a drug abuse prevention policy which prohibits the illegal possession, sale, or distribution of controlled substances on the premises or at school events. The Policy and significant information about the hazards of drug abuse, the effects of specific substances, and links to local rehabilitation service organizations can be found at http://ptt.edu/index.php/consumer-information/drug-alcohol-policy.

Other Consumer Information Available on our Website (http://ptt.edu/index.php/consumer-information):
Detailed Information on Financial Aid Programs (including government maximum awards)
Student Loan Requirements
Rights and Responsibilities of Students Receiving Financial Aid
Satisfactory Academic Progress for Financial Aid
Cost of Attendance and Net-Price Calculator
Withdrawal, Refund and Return to Title IV Policies
Privacy Policy and Protecting Students’ Personal Information (FERPA and Privacy Policy)
Transfer of Credit Policy and Transferability Disclosure
Copyright Infringement/Internet Use Policy
Facilities and Services Available to Students with Disabilities
Completion, Graduation and Placement Disclosures (Incl. Student Right-to-Know Act)
Voter Registration/Constitution Day

Printed copies of any of the consumer information contained on PTTI’s website can be obtained by contacting the Financial Aid Office at 215-381-9403.

Transferability of PTTI Credit
The acceptance of transfer credit from PTTI by another institution is solely at the discretion of the receiving institution. Due to the technical nature of PTTI’s programs, transfer of credit may be limited. Students considering transferring to other institutions should consult with that
institution to determine their policies, procedures, and willingness to accept credit from Philadelphia Technician Training Institute.

**Articulation Agreement**

PTTI has a limited articulation agreement with Pennco Tech, 3815 Otter St, Bristol, PA to provide eight days of training in the Automotive Technology and Repair Program related to the certification requirements for motor vehicle inspections in the Commonwealth of Pennsylvania.

**Student Responsibilities**

There is an expanding reliance on electronic communication among students, faculty, staff and administration at PTTI. This is motivated by the convenience, speed, cost-effectiveness, and environmental advantages of using Email rather than printed communication. All students enrolled at PTTI are provided a PTTI Student Email account free of charge. Student Email is considered an official form of communication between the school and students.

**Expectations Regarding Use of Student Email:** Students are expected to check their official Student Email address on a frequent and consistent basis in order to stay current with PTTI communications. PTTI recommends checking Student Email once a week at a minimum; in recognition that certain communications may be time-sensitive.

**Disciplinary Policy**

Students are expected to conduct themselves in a professional manner at all times. Disruptive or destructive behavior in class or on school grounds, or on internship sites, is grounds for termination. If a student fails to behave accordingly, the school reserves the right to take the following disciplinary actions:

**Probation:** Students committing minor offenses will be subject to a thirty day probation period. If a student commits a second minor offense while on probation, the student will be suspended. If the student commits no other offense during the probationary period, it will expire automatically.

**Suspension:** Suspended students will be subject to thirty days of withheld privileges while the Directors ascertain his/her ability to continue at the school. Any classes missed by the student because of suspension must be made up according to the school’s make up policy. If a student commits any further offense while on suspension, he/she will be subject to termination.

**Termination:** Students committing a major offense and/or a series of minor offenses will be found unfit to continue school, and will be asked to leave and not return. The student’s balance of tuition will be refunded to that student as per the Refund Policy. Students may also be terminated for failure to meet standards in academic, conduct, attendance, or financial responsibility. A student whose enrollment is terminated is not eligible for re-admission under any circumstances for a period of one calendar year. After that time, a terminated student may submit a written request for reentry into a program. If the Directors allow the student to re-enter, the student will be placed on probation for a thirty day period.
Grievance Procedure
From time-to-time students complaints may arise. If a student has a complaint they should contact the President who will attempt to solve the complaint. If this does not satisfy the student they should contact the PA Department of Education, State Board of Private Licensed Schools. All complaints should be in writing and signed. If the student feels the school has not adequately handled the complaint or concern, the student may consider contacting

Pennsylvania Department of Education
333 Market Street
Harrisburg, Pennsylvania 17126-0333
(717) 787-3787
ostatbd@psupen.psu.edu

Middle States Association of Secondary Schools
Commission on Higher Education
3624 Market Street, 2nd floor
Philadelphia, Pennsylvania 19104-2680
(267) 284-5000
Programs of Study

Automotive Technology and Repair Program

Course Length:
- 900 hours total
- 232 hours theory
- 468 hours Laboratory/Shop/Hands On
- 200 hours Internship

Course Description:
The Twenty-six (26) weeks and 900 clock hour course is a hands-on program designed to teach students automotive repair for cars and light trucks so students can perform world class quality auto repairs, as well as secure and retain employment in the automotive repair field.

This course will include Internet documentation and lecture materials, instruction, hands-on experience, diagrams, pictures, study guides, and other easy-to-use materials relating formalized training toward PA State & Enhanced Emission requirements. This course also includes light truck and car maintenance designed to help students understand changing brakes, muffler, steering and suspension systems, exhaust systems, tires, fluid exchanges, oil & filter changes, and tune-ups. Our automotive program prepares students for further study to pass the brakes, suspension, and engine ASE certification test. Our course of study also prepares students to sit in on additional ASE modules either offered online or in class.

With the training of this course students will be fully qualified to be a professional service mechanic, self-employed as the owner or manager of a repair facility, work in a parts retail store, become a sales service manager in a retail repair or dealership center, or work as an apprenticeship in a manufacturing operation as a technical manufacturing operator or machine repair journeyman, etc.

Automotive Technology & Diploma Program

<table>
<thead>
<tr>
<th>Course/Number</th>
<th>Lesson Title</th>
<th>Lecture</th>
<th>Shop</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATR001</td>
<td>Shop Safety</td>
<td>2</td>
<td>5</td>
<td>7</td>
</tr>
<tr>
<td>ATR002</td>
<td>Shop Equipment</td>
<td>3</td>
<td>4</td>
<td>7</td>
</tr>
<tr>
<td>ATR003</td>
<td>Automotive Measurement and Math</td>
<td>29</td>
<td>1</td>
<td>30</td>
</tr>
<tr>
<td>ATR004</td>
<td>Brake Systems</td>
<td>8</td>
<td>10</td>
<td>18</td>
</tr>
<tr>
<td>ATR005</td>
<td>Front Brakes/Rear Brakes</td>
<td>2</td>
<td>22</td>
<td>24</td>
</tr>
<tr>
<td>ATR006</td>
<td>Brake System Maintenance</td>
<td>6</td>
<td>15</td>
<td>21</td>
</tr>
<tr>
<td>ATR007</td>
<td>Master Cylinders</td>
<td>10</td>
<td>24</td>
<td>34</td>
</tr>
<tr>
<td>ATR008</td>
<td>Suspension System Fundamentals</td>
<td>10</td>
<td>18</td>
<td>28</td>
</tr>
<tr>
<td>ATR009</td>
<td>Suspension Diagnosis/Maintenance/Repair</td>
<td>31</td>
<td>94</td>
<td>125</td>
</tr>
<tr>
<td>ATR010</td>
<td>Inner &amp; Outer Tie Rods</td>
<td>12</td>
<td>20</td>
<td>32</td>
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<tr>
<td>ATR011</td>
<td>Alignments</td>
<td>7</td>
<td>27</td>
<td>34</td>
</tr>
<tr>
<td>ATR012 a/b</td>
<td>PA Emission &amp; Safety Inspection — A&amp;B required</td>
<td>48</td>
<td>26</td>
<td>74</td>
</tr>
</tbody>
</table>
### Course Descriptions – Automation Technology & Repair

#### ATR001 Auto Tech – Shop Safety
In this course the student will acquire an in-depth knowledge of shop equipment, processes, and procedures for operating equipment so that the student and others remain safe in a working automotive repair center. Emphasis will be placed on truck and passenger lifts, safety data sheets, chemicals, and tire machines.

#### ATR002 Auto Tech – Shop Equipment
The student will acquire a working knowledge of Shop Equipment to perform automotive light duty repair on vehicles and light trucks. Equipment that the student will learn how to operate include: alignment lifts, passenger and light truck lifts, tire balance and tire change machines, and hand tools needed to perform mechanical and electrical repairs.

**Pre-requisite:** ATR001
ATR003 Auto Tech – Automotive Measurement and Math
Students will learn mathematics such as fractions, multiplication, division, slopes, volumes, areas, percentages, variables, and bar graphs, line charts and their relationship to volts, ohms, current, capacitance, transformers, diodes, transistors, as well as temperature-pressure-speed. In addition, students will gain knowledge of customary and metric measuring systems, basic measuring tool identification, uses of common measuring tools, conversion charts, and safety rules relating to measurement tools. Pre-requisite: ATR001, ATR002

ATR004 Auto Tech – Brake Systems
Students taking this course will gain a theoretical knowledge of the entire braking system which includes master cylinder, brake lines, hoses, calipers, brake line fittings, brake pads, safety measurements, wheel cylinders, and the full brake system operation as an integrated system. Pre-requisite: ATR001, ATR002, ATR003

ATR005 Auto Tech – Front Brakes
In this course, students will learn about the front brake system for cars and light trucks. This course will teach students how to change, trouble-shoot, measure brake thickness, brake safety limits, and diagnosis of the front brake system. This course will also provide hands-on education so that students have a practical knowledge base on how the front brakes are maintained for the correct operation of vehicles on the road and highway. The student will learn the rear brake system for both rear brake pads/calipers and rear brake shoes/drums. The student will learn to perform brake changes, safety measurements, adjustments, diagnosis, repair and maintenance for the proper operation of both passenger cars and light trucks for Pennsylvania Inspection Safety Standards. Pre-requisite: ATR001, ATR002, ATR003, ATR004

ATR006 Auto Tech – Brake System Maintenance
Students will gain knowledge of brake diagnosis, inspection, and the proper way to maintain a brake system. Students will also learn to describe the basic procedures for servicing master cylinder and a brake booster, in addition to servicing both disc and drum brakes. Students will learn to describe the proper procedure for both manual and pressure bleeding of a brake system. Students will also gain knowledge that ensures safety protocol when servicing brake systems. Pre-requisite: ATR001, ATR002, ATR003, ATR004, ATR005

ATR007 Auto Tech – Master Cylinders
The course will allow every student the opportunity to learn the function and application of master cylinders, how and when to check for leaks, replacement, and unique failure modes. This course will allow the student to have a well-rounded understanding of the master cylinder and its use for stopping vehicles on the road and how air over hydraulics work. Pre-requisite: ATR001, ATR002, ATR003

ATR008 Auto Tech – Fundamentals of Suspension
In this course the student will understand the theory and how suspension components operate, function, fail, replaced and maintained for the safety according to the manufacturer requirements and PA State Inspection Regulations. The student will learn about various car suspension types, shocks, struts, front and rear suspension, foreign and domestic vehicle on cars and trucks. After learning about the suspension systems, the student will be required to assemble and disassemble suspension components, perform routine maintenance, understand how to perform first stage suspension diagnosis checks and alignments. Pre-requisite: ATR001, ATR002, ATR003
ATR009 Auto Tech – Suspension Diagnosis/Maintenance/Repair
The student will be taught to understand various struts and shock systems and their relationship to other suspension components like: inner/outer tie rods, ball joints, sway bar links, power steering rack and pinion systems, steering boxes, upper and lower control arms, front and rear frame systems and adjustments during alignments. Emphasis is placed on how to determine failure, replacement, and maintainability for proper use. Hands-on training will be emphasized during this course so that each student can afterward feel at ease with performing diagnosis and maintenance of struts and shocks.
Pre-requisite: ATR001, ATR002, ATR003, ATR008

ATR010 Auto Tech – Inner & Outer Tie Rods
Student will get an in-depth experience with understanding the need for inner and outer tie rods, their use in cars and light trucks, their replacement, and adjustments during installation and alignments.
Pre-requisite: ATR001, ATR002, ATR003

ATR011 Auto Tech - Alignments
The student will acquire a working knowledge of Alignments to perform automotive light duty repair on vehicles and light trucks so that students can learn the skills needed to perform quality auto repairs in a timely fashion as well as secure and retain employment in the automotive repair field. Each student will perform over 20 alignments before the course has ended. Students will inspect, report any failures, repair failed vehicles, and perform alignments as required by dealer specification on the Hunter Hawkeye alignment machine.
Pre-requisite: ATR001, ATR002, ATR003, ATR008, ATR009, ATR010

ATR012a Auto Tech – PA Emission Inspection
Students in this course will learn about the Pennsylvania Emissions Inspection, all theory and practices in repair centers. Emphasis will be placed on documenting the evidence of PA Emissions, fraud prevention, and how to explain inspection results to management and customers alike. After completion, students will be required to pass a PA State Emissions Licensing Exam and obtain a PA State Emission License. Obtaining a PA State Emissions License is a critical component to securing a job in the automotive repair industry. If needed PTTI will help to schedule the PA State Emissions Licensing Exam and provide transportation.
Pre-requisite: ATR001, ATR002, ATR003

ATR012b Auto Tech – PA Safety Inspection
In this course the student will become proficient at understanding the procedures, rules, regulations, fraud prevention, and documentation needed for performing Pennsylvania (PA) State Safety Inspections to for Pass/Failure of automobiles and light duty repair on vehicles. Students will learn the skills needed to perform PA Safety Inspections in a timely fashion. After completion, students will be required to pass a PA State licensing exam and obtain a PA State Safety License. Obtaining a PA State Safety License is a critical component to securing a job in the automotive repair industry.
If needed PTTI will help to schedule the PA State Safety Licensing Exam and provide transportation.
Pre-requisite: ATR001, ATR002, ATR003

ATR013 Auto Tech – Exhaust/Torch/Mufflers
Participating students will gain education and training to diagnosis exhaust problems, determine corrective actions, use oxy-acetylene torch for heating and cutting, remove and install exhaust components such as catalytic converters, flex pipes, resonator, under axle, mufflers and tail
pipes. Students will be expected to learn how to remove sections of exhaust without destroying components before and after the section that needs to be removed. Students will be expected to perform the actual work themselves and gain proficiency.
Pre-requisite: ATR001, ATR002, ATR003

ATR014 Auto Tech – Belts/Hoses/Thermostats
Students will acquire a thorough understanding of how drive belts work, the purpose of hoses and their proper use, how thermostats function and the replacement of all these components. Every student will manually change different types of serpentine and v-belts, air-vacuum-coolant-power steering-brake hoses as well as thermostats on various types of cars and trucks for both foreign and domestic vehicles.
Pre-requisite: ATR001, ATR002, ATR003

ATR015 Auto Tech – Electrical Troubleshooting
Students will learn ohms law and how to apply it to perform basic electrical diagnosis for engine component wiring, shorted or open circuit wiring, and determine why power is not getting to various electrical sub-systems in a vehicle. All students will be required to learn how to use and apply a strong working knowledge of volt-ohm meters to diagnosis wiring failures on vehicle inside the class-room.
Pre-requisite: ATR001, ATR002, ATR003

ATR016 Auto Tech – System Diagnosis
In this course, students learn how to utilize computerized diagnosis scanners using AllDatapro and Mitchell "On Demand" software to perform basic diagnosis to vehicle engine sensors, transmission and body control systems. Each student will be expected to learn different types of scanners and software to perform the first level of diagnosis related to the engine, transmission and body control operations of vehicle.
Pre-requisite: ATR001, ATR002, ATR003

ATR017 Auto Tech – Fluids (Oil, Transmission, Brake, Power Steering, Coolant)
Theory of fluids will be taught so there is a thorough understanding of why certain fluids are used for different reasons. Every student will learn to operate Robinair and RTI fluid machines for transmission, coolant and brake fluid flushes. Each student will also be required to perform engine oil & filter changes and flush brake fluids and power steering system.
Pre-requisite: ATR001, ATR002, ATR003

ATR018 Auto Tech – Tires and Tire Repair
In this course, every student will learn about tire specifications and how to diagnosis and repair tire related issues. Students will be provided a full education of tires and their relationship to rims, how tires are mounted to rims, high speed wheel balancing, and repairs to tires within the legal specified limits. Students will be given various sizes and types of tires so they can actually diagnosis, repair and perform maintenance in a timely fashion.
Pre-requisite: ATR001, ATR002, ATR003

ATR019 Auto Tech – Resume Writing
Student will be taught the proper format to place skill based content into their resumes. Resume writing will focus on content with abilities and strengths that students have and what employers seek. The skills section of the resume will reflect the soft and technical skills (before and after the student graduated from PTT.edu). Students will complete skill and work related questionnaires, interview with PTTI’s job developers, and finally develop resume while
corresponding PTTI’s job developer and the staff. Resumes will be stored on PTTI’s secure web-portal for updates and future job opportunities as a continued service for the student.
Pre-requisite: ATR001, ATR002, ATR003

**ATR020 Auto Tech – Interviewing/Customer Service Skills**
In this course, each student will be taught how to undergo successful interviews and provide customer service. This course is designed with both lecture and interactive learning. Students will participate in group as well as individual interview training sessions that simulate business communication, question/answer sessions, along with shop demonstrations, right and wrong customer service communications. Emphasis will be placed on securing employment, problem solving skills, professional customer service, and employment literacy.
Pre-requisite: ATR001, ATR002, ATR003, ATR019

**ATR021 Auto Tech - Internship**
Students will acquire real-time, hands-on, on-the-job education-related experience and apply learned skills as a component of their education. Emphasis will be placed on applying skills learned, working well with other employees, teamwork, and helping companies become more productive. The 200-hour internship experience will provide students with the opportunity to provide employers high quality standards of work.
Pre-requisite: All courses from ATR001 through ATR020
Manufacturing and Automation Program

Course Length:
900 Total Hours
133 Hours Lecture
567 Hours Laboratory/Shop/Hands On
200 Hours Internship

Course Description:
The twenty-six (26) week, 900 hour course is a hands-on designed to train students in electronics and electronic trouble-shooting, manufacturing technologies, industrial automation and process controls, resume writing and interviewing. Using a hands-on curriculum, students learn how to use and operate electronics modules, internet computers, energy controls and monitoring systems, oscilloscopes, multi-meters, robotic work cells, packaging equipment and more. The program also utilizes programmable logic controllers, robotics & robotic controllers, machine vision systems, controls & electrical panels, energy controls, and automatic sequencing machines.

Manufacturing and Automation Diploma Program

<table>
<thead>
<tr>
<th>Course/Number</th>
<th>Lesson</th>
<th>Title</th>
<th>Clock Hours</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Lecture</td>
</tr>
<tr>
<td>MAT001</td>
<td>History of Manufacturing &amp; Automation</td>
<td>3</td>
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<tr>
<td>MAT002</td>
<td>Workplace Math &amp; Basic Electronics</td>
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<tr>
<td>MAT003</td>
<td>Safety of Electrical/Mechanical Systems</td>
<td>3</td>
<td>29</td>
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<tr>
<td>MAT004</td>
<td>Equipment &amp; Design</td>
<td>3</td>
<td>21</td>
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<tr>
<td>MAT005</td>
<td>Equipment Design Criteria, Specification</td>
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<td></td>
<td>Introduction to PLCs &amp; Electrical</td>
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<tr>
<td>MAT006</td>
<td>Diagnostic Equipment</td>
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<tr>
<td>MAT007</td>
<td>PLC Programming</td>
<td>24</td>
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<td></td>
<td>Hydraulic/Pneumatics, Actuators, PLC,</td>
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<td></td>
<td>Hardware &amp; Sensors</td>
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<tr>
<td>MAT008</td>
<td>Robotics &amp; PLC Interfaces</td>
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<td>Electrical Machine Interfaces of</td>
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<td></td>
<td>Hydraulic &amp; Pneumatic Systems</td>
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<td>MAT010</td>
<td>Equipment Maintenance/PLC</td>
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<tr>
<td>MAT011</td>
<td>Process Equipment Diagnosis</td>
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<tr>
<td>MAT012</td>
<td>Process Monitoring &amp; Correction</td>
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<td>MAT013</td>
<td>Computer Aided Diagnosis</td>
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<tr>
<td>MAT014</td>
<td>Controls &amp; Instrumentation</td>
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<tr>
<td>MAT015</td>
<td>Packaging &amp; Seals</td>
<td>2</td>
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<tr>
<td>MAT016</td>
<td>Manufacturing Assembly Operations</td>
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<tr>
<td>MAT017</td>
<td>Fluid/Energy Operations</td>
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<td>30</td>
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<tr>
<td>MAT018</td>
<td>Medical Manufacturing Processes</td>
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<tr>
<td>MAT019</td>
<td>ISO 9000 &amp; 14001</td>
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</tr>
<tr>
<td>MAT020</td>
<td>Documentation &amp; Document Control</td>
<td>5</td>
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</tbody>
</table>
Certification:
A diploma of completion will be given to each student upon completing the course. This diploma will be used to show a perspective employer evidence of program completion and the skills attained for successful work in the manufacturing and automation industry.

Course Descriptions – Manufacturing & Automation

MAT001 - History of Manufacturing & Automation
The student will learn about the history of manufacturing and automation (M & A), the necessity to make high quality products for consumers and the professional markets. Through theory and application, the focus of this course will be to learn about how manufacturing and automation maintenance technicians play a vital role in the workplace to keep high speed production machines well maintained to prevent quality concerns and zero recalls for all products and services.

MAT002 - Workplace Math & Basic Electronics
Participants will take a workplace math primer for using tools, using formulas, make and read simple drawing, estimate weight and working qualities, calculate slopes, and do data analysis related to electrical properties in volts, ohms, current, capacitance, transformers, diodes, transistors, as well as temperature-pressure-speed-acceleration sensors. Students will utilize spreadsheets, perform analysis of various systems, and understand critical process data.
Pre-requisite: MAT001

MAT003 - Safety of Electrical/Mechanical Systems
This course will teach the student about high speed mechanical and electrical design related to manufacturing, assembly operation, and process control. This Course will teach students the about theory of torque, force, speed, pressure, and temperature as it relates to part handling, metal forming, fluid processing, fabricating, inspection/testing, marking, packaging, and chemical.
Pre-requisite: MAT001, MAT002

MAT004 - Equipment & Design
Students will be taught the original equipment design criteria and specification for manufacturing machinery. Students will learn to read blue prints, understand cycle-time, design parameters, quality metrics, human interface, machine guards, rotating machine alignment requirements, preventative maintenance, input/output sensors, and control interfaces.
Pre-requisite: MAT001, MAT002, MAT003

MAT005 – Equipment Design Criteria/Specification
Students will be taught what are the original equipment design criteria and specification for manufacturing machinery. Students will learn to read blue prints, understand cycle-time, design parameters, quality metrics, human interface, machine guards, rotating machine alignment
requirements, quick changeovers, preventative maintenance, input/output sensors, and control interfaces.

Pre-requisite: MAT001, MAT002, MAT003, MAT004

MAT006 - Introduction to PLCs & Electrical Diagnostic Equipment
Student will acquire a working knowledge of Programmable Logic Controllers to perform entry level work as a Manufacturing & Automation Technician such that he/she can secure employment in a manufacturing and/or automation company to maintain, repair, trouble-shoot, and install equipment in a product and/or service manufacturing plant operation.
Pre-requisite: MAT001, MAT002, MAT003

MAT007 - PLC Programming
Students will acquire a working knowledge of PLC Programming to perform entry level work as a Manufacturing & Automation Technician such that he/she can secure employment in a manufacturing and/or automation company to maintain, repair, trouble-shoot, and install equipment in a product and/or service manufacturing plant operation.
Pre-requisite: MAT001, MAT002, MAT003, MAT006

MAT008 - Hydraulic/Pneumatics, Actuators & PLC Hardware & Sensors
Students will learn about more advanced alternating current, electrically actuated hydraulic and pneumatic actuators such as pistons, rotary motors, spool valves, pop-it valves, pressure valves, compressors, incandescent water treatment systems, strainers and other systems used in manufacturing operations. The actuators will then be used in various logical configurations within PLC systems. Student will learn how actuators function in manufacturing operations and/or manufacturing field operations with common digital field input devices include pushbuttons, limit switches, photo sensor and common digital output devices include relays, motor starters, and solenoid valves. This course will focus on sing PLCs to trouble-shoot electrical wiring and/or PLC hardware problems and take corrective action to repair equipment.
Pre-requisite: MAT001, MAT002, MAT003

MAT009 - Robotics & PLC Interfaces
Students will learn about more advanced knowledge of electrically actuated hydraulic and pneumatic actuators such as pistons, rotary motors, spool valves, pop-it valves, pressure valves, compressors, incandescent water treatment systems, strainers and other systems used in manufacturing operations. This course will focus on sing PLCs to trouble-shoot electrical wiring and/or PLC hardware problems and take corrective action to repair equipment. Student will write programs to tune-on and off hydraulic pumps, run linear pistons, turn off and on pumps hydraulically.
Pre-requisite: MAT001, MAT002, MAT003, MAT006, MAT007, MAT008

MAT010 - Electrical Machine Interfaces of Hydraulic & Pneumatic Systems
In this course, students will learn how to interface flexible automation devices such as such as robotics and PLCs so that “hand-shaking” can occur through programs and using contacts, coils, cascading timers, delays, cascading timers, latches, single shot pulse, starting and stopping a process control, how to use PLC Instructions in your programs using binary and hex. Emphasis will be placed on mechatronics and trouble-shooting inter-relationships of PLC and robotic systems for maintainability.
Pre-requisite: MAT001, MAT002, MAT003, MAT007, MAT008

MAT011 - Equipment Maintenance
Students will learn how to handle hand-tools to accomplish scheduled maintenance. Hand-tools
such as wrenches, air tools, pullers, machinist rulers, Allen keys, hammers, screw drivers, pliers, grips, breaker bars, saws, grinders, rotational shaft alignment, hand wrenches, lubrication equipment, and calibration equipment. The course is designed to teach theory and hands-on use of hand-tools to maintain manufacturing equipment.

Pre-requisite: MAT001, MAT002, MAT003, MAT006, MAT007, MAT008, MAT009

MAT012 - Process Equipment Diagnosis
Course is designed to teach students about diagnosis theory, looking for faults, finding shorted components or wiring, open circuitry, sub-component failures to ancillary systems, PLC faults and component failures, intermittent actuator breakdowns, and mechanical failure that appear to be electrical faults, bearing failures, and mechatronic systems, integrated technology, and automation. This course will stress technical competency within the context of troubleshooting and technical problem-solving related to mechatronic systems.

Pre-requisite: MAT001, MAT002, MAT003, MAT008, MAT009, MAT010

MAT013 – Process Monitoring/Process Correction
In this course, students will be introduced to statistical process control (SPC) and shall develop control charts, quality control histograms and understand how this plays a vital role in maintenance and repair of manufacturing machinery. Students will be taught about process variability, control limits, common-cause and special-cause variation, determining when a process is in control and out of statistical process control. This course will teach the student how to relate maintenance and mechatronics to process monitoring and correction.

Pre-requisite: MAT001, MAT002, MAT003

MAT014 – Computer Aided Design
Students will learn how to mark drawing layout utilizing AutoCAD software. Students will learn how to identify layers of AutoCAD drawings, drawing lines, trim a line, draw a circle, extend a line, drawing a rectangular polyline, working with a rotated background, creating a fillet, drawing a rectangle, pan and zoom, write text, and set dimensions. Emphasis in this course will be for students to communicate with engineers and other technicians in manufacturing.

Pre-requisite: MAT001, MAT002, MAT003

MAT015 – Control & Instrumentation
In this course, participating students will be taught how different control systems communicate with instrumentation such that students will setup, configure, and tune various real-world instrumentation and controls for speed, acceleration and start/stop sequencing of training stations. Strong emphasis is placed on understanding industrial instrumentation in their manufacturing and their processes.

Pre-requisite: MAT001, MAT002, MAT003, MAT007, MAT008, MAT009, MAT010

MAT016 – Packaging & Seals
Students will be taught about packaging & seals, types of materials used in packaging, operations complete with motor controllers, conveyor belts, photo sensors, wiring diagrams, maintenance specifications, trouble-shooting problems for root cause and corrective actions with actuators, pistons, and rotary index boxes.

Pre-requisite: MAT001, MAT002, MAT003

MAT017 – Manufacturing Assembly Operations
This course will teach the students about basics of assembly operations such as robotics, tooling, robotic grippers, setting up automatic welding operations, synchronizing robots to conveyor belt system using PLCs, and close tolerance assembly operations. Students will learn
about manufacturing assembly blue prints, operations related to scheduled maintenance and recommendations of additional maintenance prevent equipment breakdowns.
Pre-requisite: MAT001, MAT002, MAT003

**MAT018 – Fluid/Energy Operations**
This course is geared to 1) steam generation 2) Heating Ventilation and Air Conditioning (HVAC) operations and controls. Students will learn the process cycles of both steam and HVAC systems and how their corresponding mechanical computerized control, motors, valves, relays, pumps, and other ancillary systems. The student will understand how preventative maintenance is accomplished through theory and hands-on practice.
Pre-requisite: MAT001, MAT002, MAT003, MAT006, MAT007, MAT008

**MAT019 – Medical & Food Manufacturing Processes**
This course will teach students about medical devise manufacturing and the stringent requirements of equipment and processes needed for production readiness. This course includes Good Manufacturing Practices (GMP) by the Food & Drug Association (FDA). Students will learn about the organization and personnel, buildings and facilities, equipment, control of components and drug product containers and closures, production and process controls, packaging and labeling control, and records and reports. The purpose of this training is to allow students to understand the impact on their careers of maintenance technicians in manufacturing.
Pre-requisite: MAT001, MAT002, MAT003

**MAT020 – ISO 9000 & 14001**
This coursework will give the student an in-depth understanding of the International Organization of Standardizations (ISO). Students will learn ISO 9001. In the ISO 9001 standards, students will learn definitions to the international standards, how to apply ISO to maintenance standards, authority, and audits, managing change to processes overtime.
Pre-requisite: MAT001, MAT002, MAT003

**MAT021 – Documentation & Documentation Control**
This coursework will educate the student on how to properly document maintenance work relative to his/her responsibilities, and when the need arises out of diagnosis and repairs as well as change orders for equipment. Emphasis will be placed on standard understanding of automated scheduling and documentation of maintenance requirements, and work orders. Students will learn how document control software systems work and how this streamlines the vital processes, saves valuable time, and keeps operations in compliance to FDA and ISO requirements.
Pre-requisite: MAT001, MAT002, MAT003

**MAT022 – Process & Product Validations**
The purpose of this course is to provide an introduction to the fundamentals of process and product validations, explaining why, how, when, and where these validations are accomplished. Students will learn the necessity of these validations in manufacturing and maintenance of equipment. Students will be involved with equipment installation, setup, and process and product validations. Students will run process and product validations themselves and determine the outcome toward pre-determined specifications.
Pre-requisite: MAT001, MAT002, MAT003

**MAT023 – Resume Writing**
Student will be taught the proper format to place skill based content into their resumes. Resume
writing will focus on content with abilities and strengthens that students have and what employers seek. The skills section of the resume will reflect the soft and technical skills (before and after the student graduated from PTT.edu). Students will complete skill and work related questionnaires, interview with PTTI staff, and finally develop resume. Resumes will be stored on PTTI’s secure web-portal for updates and future job opportunities as a continued service for the student.

Pre-requisite: MAT001, MAT002, MAT003

MAT024 - Interviewing Skills & Customer Service Skills
Students will acquire a working knowledge of resume and cover letter writing, interviewing skills, teamwork, and management communications to help them secure employment in an entry level position as a welder technician. PTTI Students will be prepared to work professionally and communicate effectively upon completion of this course.

Pre-requisite: MAT001, MAT002, MAT003, MAT023

MAT025 – Manufacturing Technician Internship
Every student will go into an internship that is designed to provide a mix of additional manufacturing equipment maintenance, trouble-shooting, and repair experience. The internship is designed to help the future professional master the skills of a manufacturing and automation technician. Each student will complete manufacturing technician job assignments from routine maintenance to more complex assignments while working side-by-side other manufacturing technician or engineers during their training. During the internship, students will advance his/hers maintenance skills, perform diagnoses and make repairs to various components and systems that they were educated and trained on. Finally, the student intern will complete a report and evaluate the internship for permanent employment with Internship Company (if possible, not guaranteed). In addition, the internship company will be required to complete an evaluation for the student that will help the student progress with his employment and future job opportunities.

Pre-requisite: All courses from MAT001 through MAT024
Welding Technology and Training Program

Course Length:

900 Total Hours  
71 Hours Lecture  
629 Hours Shop  
200 Hours Internship

Course Description:
The program is designed to prepare students to work as welders, welder assistants, or fabricator. Students will gain experience and training that include: industrial and personal safety, safe welding operation and practices, welding machine setup and welding operation, blue print reading, interpretation of engineering plans and instructions, basic shop math and welding costs, weld-ability of materials, material strength and ductility, written and verbal communications, metal property and electricity, MIG, and Stick welding and extensive techniques and skill building, plasma cutting and use of torches, fabrication techniques and practices, resume writing, interviewing, budgeting personal finances, and job search and readiness strategies.

Welding Diploma Program

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<tr>
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<tr>
<td>Lesson</td>
<td>Lecture</td>
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<tr>
<td>WTT001</td>
<td>Welding Safety</td>
</tr>
<tr>
<td>WTT002</td>
<td>Introduction to Welding</td>
</tr>
<tr>
<td>WTT003</td>
<td>Shielded Metal Arc Welding (Stick)</td>
</tr>
<tr>
<td>WTT004</td>
<td>Plasma Cutting &amp; Joint Prep</td>
</tr>
<tr>
<td>WTT005</td>
<td>Metal Inert Gas Arc (MIG)</td>
</tr>
<tr>
<td>WTT006</td>
<td>Shielded Metal Arc Welding (Stick)</td>
</tr>
<tr>
<td>WTT007</td>
<td>Introduction to Tungsten Inert Gas Welding</td>
</tr>
<tr>
<td>WTT008</td>
<td>Introduction to Blueprint Reading</td>
</tr>
<tr>
<td>WTT009</td>
<td>Interviewing, Teamwork &amp; Mgmt.</td>
</tr>
<tr>
<td>WTT010</td>
<td>Internship</td>
</tr>
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</table>

Total: 71 829 900

Course Subjects:

1. Safety
2. Introduction to Welding
3. Shielded Metal Arc Welding (Stick) 1
4. Plasma Cutting and Joint Preparation
5. Metal inert Gas Arc (MIG)
6. Shielded Metal Arc Welding (Stick) 2
7. Intro Tungsten Inert Gas Welding
8. Introduction to Blueprint Reading
9. Interviewing Skills, Team work, and Management Communication
10. Internship
Certification:

A diploma of completion will be given to each student upon completing the course. This diploma will be used to show a perspective employer evidence of program completion and the skills attained for successful work in the manufacturing and automation industry.

Course Descriptions – Welding Technology and Training

**WTT001 – Safety**
In this course Students will learn the basics of welding safety, including proper use of equipment, and proper techniques so that the risk of injury will be minimized. The knowledge gained in this course will provide a solid foundation for the welder’s success in the work place. By learning the safety systems for protection, electrical safety and ventilation the PTTI student will be endowed with the safety skills valuable to an employer.

**WTT002 - Introduction to Welding**
Students will learn the basic theory and application for the practice of welding. The course is designed for students to gain the knowledge of mathematics used in the shop, learn and understand key terminology, and perform basic knowledge experiments as they begin to formulate a foundation for welding. This course will also re-enforce the knowledge gained from the safety course and prior to beginning shop applications and other important operations.

Pre-requisite: WTT001

**WTT003 - Shielded Metal Arc Welding (Stick) 1**
Stick welding basics will be established in order to set a foundation for PTTI students to be prepared for the Stick welding II advanced course. In this course students will continue to demonstrate the safety practices established in course WTT001 in order to ensure applicable learning and safety in the process. In Stick Welding I students will gain knowledge of electrical measurement and SMA welding arc heating etc. to ensure a smooth application once moving on to course WTT0006 Stick II.

Prerequisite: WTT001, WTT002

**WTT004 - Plasma Cutting & Joint prep**
This course builds welding and process versatility, and teaches students to experiment and gain expertise in the process of Plasma Cutting and Beveling. Acquiring strengths in these skills will help students to succeed in their welding career. In this course students will become proficient in the tools necessary to perform and complete this process along with safety, compressions, input of heat and gas cables.

Prerequisite: WTT001, WTT002

**WTT005 - Metal Inert Gas Arc (MIG)**
The MIG process of welding is a welder’s pride and joy, and PTTI students will become masters of this skill. Students will be able to perform many positions and weld types after completing this course. The students will learn and understand terminology along in conjunction with the physical hands-on application of the subject matter presented in the text. With the hours spent in shop working, the students will be able to control
amperage, densities, and wire feeds. The student will also have experience in metal prepping gun angles transfers and the equipment necessary to fulfill MIG duties.

**Prerequisite:** WTT001, WTT002

**WTT006 - Shielded Metal Arc Welding (Stick) 2**

After learning the basics necessary to properly stick-weld in WTT003 (Stick 1) the students will advance to more technical hands-on work teaching them to fully grasp the application of this type of welding. They will learn several positions: (1F), (2F), (3F), (4F) PTTI to help students create lap joints and tee joints. In the positions (1G), (2G), (3G), (4G) students will create butt joints, and perform root pass.

**Pre-requisite:** Prerequisite: WTT001, WTT002, and WTT003

**WTT007 - Intro Tungsten Inert Gas (TIG) Welding**

Students will learn the basics of TIG welding and advance to in-shop applications of those skill sets to become proficient TIG welders in this course. They will apply theory and practice in order to ensure the TIG welds are professional and acceptable for the workplace. The students will be taught appropriate setup and operations, types of electrodes, GTA current, pre- and post-flow, shielding gas, arc welding, and tungsten contamination.

**Prerequisite:** WTT001, WTT002, WTT005

**WTT008 – Introduction to Blueprint Reading**

Blueprint reading is an important piece to becoming a professional welder. Students will learn how to accurately read and interpret a blueprint in order to properly achieve their assigned tasks. Students will apply shop math to assess drawing scales and dimensions. PTTI students will also learn computer-aided drawing and special views that are important skills needed for becoming a proficient blueprint reader.

**Prerequisite:** WTT001, WTT002

**WTT009 - Interviewing, Teamwork & Management Communications**

Students will acquire a working knowledge of interviewing skills, teamwork and management communications to help them secure employment in an entry level position as a welder technician. PTTI Students will be prepared to work professionally and communicate effectively environment upon completion of this course.

**Prerequisite:** WTT001, WTT002

**WTT010 – Internship**

Students will acquire real-time, hands-on, on-the-job education-related experience and apply learned skills as a component of their education. Emphasis will be placed on applying skills learned, working well with other employees, teamwork, and helping companies become more productive. The 200-hour internship experience will provide students with the opportunity to provide employers high quality standards of work.

**Pre-requisite:** WTT001, WTT002, WTT003, WTT004, WTT005, WTT006, WTT007, WTT008, WTT009