Pit Weld U – 100
Pit Weld U – 200
Pit Weld U – 300
Pit Weld U – 400

School Catalog

Volume 6.0 – Revised 1.20.2021

2021 - 2022

Achieve your dream career as a welder/fabricator through Pit Weld U. Enroll today and put yourself on the fast track to the job you've always wanted!

PIT Instruction & Training, LLC
156 Byers Creek Road
Mooresville, NC 28117
Phone: 863-563-3566
www.VisitPIT.com

PIT WELD

PIT Instruction & Training is an Accredited Testing Facility for the:

American Welding Society®
Educational Institution Member

Table of Contents

INTRODUCTION

Pit Weld U – 100 provides the training necessary for students to learn the skills required to be proficient in welding safety, metal cutting, gas metal arc welding (GMAW) and gas tungsten arc welding (GTAW) welding disciplines. This makes for well-rounded graduates who are not only capable of producing quality cuts and welds on various types of metals, but who can also understand welding drawings and symbols as well as work place requirements such as basic equipment maintenance, presentation and professionalism. Students will be prepared for American Welding Society (AWS) certification under D1.3 – Structural Sheet Steel Welding Code.

Pit Weld U-200 introduces students to safety, proper set up and operation of equipment to be used with the shielded metal arc welding process (SMAW); And proper set up and operation of oxy-acetylene, plasma-arc, vertical band saw and drop-down band saw cutting systems as well as belt sander and electric grinders. Topics include safety, equipment setup, basic maintenance, light repair and operation of equipment as well as basic blueprint interpretation. Upon completion, the student should be able to properly use the equipment to make industry-acceptable welds on carbon steel plate; set up and use equipment to make industry-acceptable welds on various materials and configurations; and set up and properly operate aforementioned types of cutting systems. Students will be prepared for American Welding Society (AWS) certification under D1.1 – Structural Steel Welding Code (plate).

Pit Weld U – 300 is a fabrication class focused on educating students on various types of equipment commonly used in metal working shops. Course content introduces students to general metal fabrication techniques and safety and proper setup and operation of a sheet metal brake, tubing bender, bead roller, shrinker stretcher and more. Students will utilize the MIG and TIG welding processes, plasma arc and vertical and horizontal band saw cutting systems covered in the Pit Weld U – 100 curricula. Pit Weld U – 100 is a pre-requisite for this course, however applicants may test-out of the Pit Weld U-100 course via successful completion of a proficiency test.

Pit Weld U – 400 covers the knowledge and skills that apply to welding pipe. Topics include pipe positions, joint geometry, and preparation with emphasis placed on bead application, profile, and discontinuities. Upon completion, students should be able to perform welds using the Shielded Metal Arc Welding (SMAW) process to applicable codes on carbon steel pipe with prescribed electrodes in various positions. Students will utilize the SMAW welding process, oxy-acetylene torch and horizontal band saw cutting systems covered in the Pit Weld U – 200 curricula. Pit Weld U–200 is a pre-requisite for this class, however applicants may test-out of the Pit Weld U-200 course via successful completion of a weld proficiency test on carbon steel plate. Students will be prepared for American Welding Society (AWS) certification under D1.1 – Structural Steel Welding Code (pipe).

ACADEMIC CALENDAR

2021 Pit Weld U Schedule

Date	Course	Designation	School Holidays
January 4 to April 21, 2021	PWU-100	M/W Night	None
January 5 to April 22, 2021	PWU-200	Tu/Th Night	None
April 26 to August 16, 2021	PWU-100	M/W Night	May 24 (Memorial Day)
April 26 to June 10, 2021	PWU-300	Tu-Th Day	None
April 27 to August 12, 2021	PWU-200	Tu/Th Night	None
June 21 to August 12, 2021	PWU-400	M/Tu/Th Day	None
August 23 to December 15, 2021	PWU-100	M/W Night	Sept. 6 (Labor Day), Nov. 25 (Thanksgiving)
August 23 to October 14, 2021	PWU-300	Tu-Th Day	Sept. 6 (Labor Day)
August 24 to December 14, 2021	PWU-200	Tu/Th Night	November 25 (Thanksgiving)
October 18 to December 13, 2021	PWU-400	M/Tu/Th Day	November 25 (Thanksgiving)

2022 Pit Weld U Schedule

Date	Course	Designation	School Holidays
January 3 to April 20, 2022	PWU-100	M/W Night	None
January 3 to February 24, 2022	PWU-300	Tu-Th Day	None
January 4 to April 21, 2022	PWU-200	Tu/Th Night	None
February 28 to April 21, 2022	PWU-400	M/Tu/Th Day	None
April 25 to August 17, 2022	PWU-100	M/W Night	May 30 (Memorial Day), July 4 (Independence Day)
April 25 to June 16, 2022	PWU-300	Tu-Th Day	May 30 (Memorial Day)
April 26 to August 11, 2022	PWU-200	Tu/Th Night	None
June 20 to August 11, 2022	PWU-400	M/Tu/Th Day	July 4 (Independence Day)
August 29 to December 21, 2022	PWU-100	M/W Night	Sept. 5 (Labor Day), Nov. 24 (Thanksgiving)
August 29 to October 20, 2022	PWU-300	Tu-Th Day	None
August 30 to December 20, 2022	PWU-200	Tu/Th Night	November 25 (Thanksgiving)
October 24 to December 15, 2022	PWU-400	M/Tu/Th Day	November 25 (Thanksgiving)

BOARD MEMBERS

Thomas C. DeLoach, Jr. – Managing Partner
Jeffrey Hammond – Partner

FACULTY

Trent Schanen – Director of Event Logistics & Welding School Operations
William Evans – Certified Welding Inspector and Welding Instructor
Michael Dixon – Certified Welding Inspector and Welding Instructor
Ricky Swing – Welding Instructor
Douglas Biggs – Substitute Welding Instructor

ENROLLMENT QUALIFICATIONS

The school shall require graduation from a public or private or a state registered home high school as a prerequisite to enrollment in a certificate or diploma course offered by the school. Exceptions to this requirement may be made for students who hold a certificate of high school equivalency or for non-high school graduates who are 18 years of age or older who have taken the TABE (Test of Adult Basic Education), required by the State of North Carolina. A copy of the high school equivalency certificate or test results shall be kept in each student's record. The school shall not permit students of high school age to attend the school during the time that high schools are in regular session, except in individual cases approved by the student's high school principal.

ENROLLMENT PROCESS

Persons enrolling in either Pit Weld U Powered by Miller Welders program are required to submit a completed application along with a non-refundable Application Fee due at the time of application. Additionally, a Program Fee to cover all associated costs of the program is due **prior** to the start date of the scheduled program unless the payment plan is selected. Due to the experiential nature of the class, required equipment, and content, Pit Instruction and Training, LLC requires payment of the Application Fee and Program Fee in full prior to the scheduled start date of the program for those who do not select the payment plan as spelled out in the Application.

Students may enroll any time prior to the set enrollment deadline for each class, which is determined by Pit Instruction and Training, LLC.

ELIGIBILITY REQUIREMENTS

Pit Instruction and Training, LLC reserves the right to refuse admission to any applicant if it is necessary to protect the safety of the applicant or other individuals in the program or employed by PIT. Admission may be refused to an applicant when there is reasonable belief that there may be imminent and significant threat to the applicant or other individuals during the period of the Pit Weld U Powered by Miller Welders course.

GRANTING CREDIT

Due to the specific nature of our industry, we do not accept any type of prior educational or work experience as credit towards either Pit Weld U Powered by Miller Welders course.

CODE OF CONDUCT

Pit Instruction and Training, LLC reserves the right to impose a variety of disciplinary actions, including permanent termination from school, on any student whose behavior—on or off campus—violates the Code of Conduct outlined in this Catalog. To clarify, school administrators will determine in their sole discretion if the Code of Conduct has been violated. Disciplinary action may be taken under this Code of Conduct regardless of whether that conduct also involves an alleged or proven violation of law. Specific instances of misconduct include, but are not limited to the following:

Drugs & Alcohol
Drug use, substance abuse or possession of drugs, drug paraphernalia or alcohol while on or off Pit Instruction and Training property or during school activities is not tolerated. As a condition of acceptance, Pit Instruction and Training students agree to random and for-cause drug testing throughout their attendance as set forth in Pit's Substance Abuse Prevention Policy included in this guide.

Guns and Weapons
Possession of guns or weapons on campus (in parking lots, vehicles, etc.) is not permitted. Any knife with a blade longer than 2 inches is considered a weapon and not permitted on campus.

Illegal Actions
Any action in violation of federal, state or local laws on or off campus is not tolerated.

Disruptive Behavior
Any type of disruptive behavior is not tolerated. Disruptive behavior includes, but is not limited to, obscene language, profanity, derogatory comments, racial or sexist remarks, sleeping in class, or leaving the classroom or shop area without permission.

Fighting
Bullying, harassment, fighting, manufacturer bashing, threats or other acts of violence between students or directed toward Pit Instruction and Training staff is not tolerated on or off campus.

Vandalism
Vandalism of School or personal property of students or staff on or off campus is not tolerated.

Theft
Stealing or possessing stolen property on or off campus is not tolerated.

Possession of Stolen Property
Possessing property known to be stolen that may be identified as property of Pit Instruction and Training or any other person or business is not tolerated.

Destruction of Property
Destruction of School or personal property of students or staff on or off campus is not tolerated.

Civil Disturbance
Any conduct that involves disturbing the peace of the School and/or the local community is not tolerated. Disturbing the peace under such circumstances can be defined as, but is not limited to, disorderly conduct and failure to comply with the directives of law enforcement or Institute officials. This includes loud exhaust and stereos.

TRANSCRIPTS

Pit Instruction and Training, LLC maintains a full record of all course attempts for each student. Only the student's successfully completed courses will appear on the official transcript. However, all attempts will be reflected within each student's records. Within two weeks of graduation, each student will receive two copies of his or her official transcript and certificate. Additional certified copies may be obtained anytime thereafter for a nominal charge by contacting the school. Unofficial transcripts are available free of charge. The school reserves the right to not issue or award graduation documents and transcripts to a student until all financial obligations to the school have been satisfied.

CURRICULUM

Pit Weld U - 100: Job Competencies – There are several key areas an individual must be well versed in to be a professional welder/fabricator. The areas are as follows:

1. **Understanding welding symbols:** Students will learn how to read and interpret welding symbols used in drawings and be able to apply knowledge to perform specific welding of a joint.
2. **Equipment safety and setup:** Students will learn proper safety techniques allowing for proper equipment setup and operation creating safe classroom and workplace environments necessary on the job.
3. **Metal cutting / basic fabrication:** Students learn proper procedures involving measurement of metals, as well as different types of cuts associated with specific welding procedures needed to create proper penetration and fusion of metals.
4. **GMAW - Gas Metal Arc Welding (MIG):** Students will learn the process behind MIG welding in which metals melt and are thus joined together using necessary welding equipment including the welding gun and tip, proper wire types and power unit.
5. **GTAW - Gas Tungsten Arc Welding (TIG):** Students will learn the more complex process behind TIG welding in which metals melt and are thus joined together using necessary welding equipment including the torch, tungsten, filler rod, foot pedal and power unit.

Pit Weld U - 200: Job Competencies – There are several key areas an individual must be well versed in to be a professional structural welder. The areas are as follows:

1. **Understanding welding symbols and blueprint interpretation:** Students will learn how to read and interpret welding symbols used in blueprints utilized on the job-site and be able to apply knowledge to perform specific welding of a joint in structural applications.
2. **Equipment safety, setup and maintenance:** Students will learn proper safety techniques allowing for proper equipment setup, operation and light maintenance items creating safe classroom and workplace environments necessary on the job.
3. **Metal cutting techniques:** Students learn proper procedures involving measurement of metals, as well as different types of cuts associated with specific welding procedures needed to create proper penetration and fusion of metals on structural steel plate components.
4. **SMAW - Shielded Metal Arc Welding (Stick):** Students will learn the process behind Stick welding in which metals melt and are thus joined together using necessary welding equipment including the power unit and welding electrode.

Pit Weld U - 300: Job Competencies – There are several key areas an individual must be well versed in to be a professional metal fabricator. The areas are as follows:

1. **Equipment safety, setup, and maintenance:** Students will learn proper safety techniques allowing for proper equipment setup, operation, and light maintenance items on fabrication equipment, creating safe classroom and workplace environments necessary on the job.
2. **Metal fabrication equipment operation:** Students will become proficient in the use of plasma-arc, vertical and horizontal band saw cutting systems, English wheel, sheet metal brake, shear, bead roller and shrinker and stretcher – all commonly used equipment in metal fabrication shops industrywide.
3. **GMAW & GTAW welding processes:** Students will learn how to setup and utilize a fixture table to complete labs assigned during class. Assigned labs will require use of the GMAW and GTAW welding processes covered in the Pit Weld U – 100 course.
4. **Fabrication/production necessities:** Metal fabrication shops must meet tight deadlines while maximizing use of materials to keep costs down. Labs assigned during the course help students understand the importance of minimizing waste to ensure maximum profitability and quality in the field.

Pit Weld U - 400: Job Competencies – There are several key areas an individual must be well versed in to be a professional pipe welder. The areas are as follows:

1. **Equipment safety, setup, and maintenance:** Students will learn proper safety techniques allowing for proper equipment setup, operation and light maintenance items on welding and cutting equipment, creating safe classroom and workplace environments necessary on the job.
2. **Metal preparation & fit-up:** The curriculum ensures that students learn the importance of preparation and fit-up of piping on various joint designs before beginning welding. This requires students to have a knowledge of blueprint reading and interpretation covered in the Pit Weld U – 200 courses.
3. **SMAW Welding Processes (Pipe):** Relying on the skills developed in the Pit Weld U – 200 course, students continue to hone their skills on various diameter and schedule pipe applications using 60 and 70 series electrode. Students must learn to weld pipe in all positions to prepare for AWS and ASME certifications as required in the industry.

ADVERSE WEATHER POLICY

Students will be notified of any school closing by 7:00am on the day of class for daytime sessions, and 12:00pm on the day of class for evening sessions.

ATTENDANCE

It is essential in the pursuit of a successful education that absenteeism is kept to an absolute minimum. Therefore, all absences, tardiness and early leaves will be recorded, regardless of the reason. There are no excused absences from scheduled class days (except for a COVID related illness/quarantine or campus closures for weather or emergency-oriented issues), tardiness or early leaves. Due to the nature of our classes, we do not grant any leave of absences, excused absences or make up work. If you are absent from class more than ten percent of the total time during your program, you will be disqualified from continuing your current class and will be allowed to re-enroll in the program during the next twelve months at no additional cost if you have provided ample notification of prior tardies. Arriving to class at least 15 minutes late will result in one tardy. In the event of tardiness, two tardies will equal one full day absence.

GRADING SYSTEM

Students who meet attendance standards and class requirements will receive a Certificate of Completion or Certificate of Performance.

COURSE GRADING SCALE

Pit Weld U courses will be graded on five (5) domains:

- Attendance
- Professionalism
- Classroom / Workplace Safety
- Class Room Tests / Quizzes
- Welding Projects

Class Room Tests/Quizzes

There will be in-class tests and quizzes, which will allow the instructors to evaluate the Pit Weld U student's core knowledge as the class continues to add new objectives. This grade will come from a cumulative average at the end of the course. These tests and quizzes will be distributed at the beginning of class, and following classes where new course material has been learned. Instructors will never give a test or a quiz within the same class or day that new material has been taught. This allows forty-eight (48) hours and up to one hundred and twenty (120) hours to prepare for upcoming evaluations. The tests/quizzes will be graded on a ten (10) point scale:

A	100-90
B	89-80
C	79-70
D	69-60
F	59 or >

Welding Projects

Welding projects will be assigned throughout the duration of each course in which a Pit Weld U student will have ample time to complete. The projects ensure that each student is learning the skills required to pass the course. Assigned projects will include GMAW, GTAW (Pit Weld U-100 and 300), and SMAW (Pit Weld U-200 and 400) welding techniques and include different types of metals* (mild steel, aluminum, etc.). Students will be graded on specific criteria related to each project that are clearly spelled out with each lab assignment. Students will be allowed to re-make projects in which they receive a failing grade at the discretion of the instructor if there's reasonable time left during the course. Projects in which a student fails to complete will result in a failing grade recorded as a "zero" for the uncompleted portion.

*Pit Weld U-100 and 300 students will learn welding techniques on the different types of metals listed above. Pit Weld U-200 and 400 students will focus solely on carbon steel metals.

Pass / Fail Standards

If a combined average of these domain's results in a "C" average or better along with good standing on attendance during either Pit Weld U course, then the student will pass the course.

COURSE OF STUDY & CLOCK HOURS

Pit Weld U - 100

- Orientation, professionalism and workplace expectations – 3 hours
- Proper safety procedures and equipment – 2 hours
- Cutting equipment safety procedures – 4 hours
- Welding equipment safety procedures – 4 hours
- Understanding cutting equipment and tools – 20 hours
- Setting up welding equipment – 5 hours
- Utilizing cutting equipment – 20 hours
- Gas metal arc welding (MIG) – 50 hours
- Gas tungsten arc welding (TIG) – 68 hours

Pit Weld U - 200

- Orientation, professionalism and workplace expectations – 3 hours
- Cutting equipment safety procedures – 4 hours
- Welding equipment safety procedures – 2 hours
- Operation of cutting equipment and tools – 20 hours
- Setting up welding equipment – 3 hours
- Blueprint interpretation – 9 hours
- Shielded metal arc welding (SMAW) – 94 hours
- AWS D1.1 Certification Testing Preparation – 9 hours

Pit Weld U - 300

- Orientation, professionalism, workplace expectations and safety procedures – 4 hours
- Fabrication equipment setup and operation – 18 hours
- Welding equipment safety procedures – 2 hours
- Operation of fabrication and cutting equipment using the GMAW welding process – 37 hours
- Operation of fabrication and cutting equipment using the GTAW welding process – 37 hours

Pit Weld U - 400

- Orientation, professionalism, workplace expectations and safety procedures – 4 hours
- SMAW welding process overview, welding variables and techniques, identification of joint types & pipe welding defects – 18 hours
- Operation of welding equipment utilizing the SMAW welding process on large diameter heavy wall pipe (6”+ outer diameter) – 37 hours
- Operation of welding equipment utilizing the SMAW welding process on small diameter thin wall pipe (2” – 6” outer diameter) – 37 hours

CLASS MATERIALS NEEDED

- Textbook (issued during orientation for the respective class)
- Welding Jacket
- Welding Helmet
- Welding Gloves
- Safety Glasses
- Ear Plugs
- Leather or Steel Toed Shoes or Boots
- Pit Weld U T-Shirt
- Black work pants
- Sharpie and pencil
- Tape Measure

TUITION REFUNDS

Due to the experiential nature of the class, required equipment, and content, Pit Instruction and Training, LLC requires payment of the non-refundable Application Fee and Program Fee in full prior to the scheduled start date of the program unless the payment plan is selected. Persons unable to complete the program due to medical or personal issues have twelve months to re-enroll in the program at no additional cost. When a reimbursement of the Program Fee is necessary, the appropriate fees are processed and reimbursed by company check to the person making the original payment. Fee reimbursement applies as stated below for those who pay the entire Program Fee in full prior to the scheduled start date as well as those who choose the available Payment Plan. Those who select the payment plan will be reimbursed the amount they've paid at time of withdrawal, less the prorated amount as spelled out below. The payment plan is only available to students enrolling in the Pit Weld U – 100 or 200 classes.

The policy and regulations shall provide for, at a minimum, a full refund if a student withdraws (minus the Application Fee) before the first day of class or the school cancels (Application Fee is refunded if the school cancels, or if the applicant is deemed ineligible) the class and an eig h t y percent (80%) refund if the student withdraws within the first twenty-five percent (25%) of the period of enrollment for which the student was charged. The refund policy is the same for all courses, however the schedule is different for Pit Weld U – 300 and 400 as they're eight week courses (Pit Weld U – 100 and 200 are 16-week courses).

Pit Weld U – 100 & 200 REFUND POLICY: WRITTEN NOTICE MUST BE RECEIVED TO BE ELIGILBE FOR REIMBURSEMENT

Prior to the start of class 2:	100% refund (minus cost of any equipment, gear and/or application fee)
After class 2 and before class 8:	80% refund
After class 8 and before class 11:	70% refund
After class 11 and before class 14:	60% refund
After class 14 and before class 16:	50% refund
After class 16:	0% refund

Pit Weld U – 300 & 400 REFUND POLICY: WRITTEN NOTICE MUST BE RECEIVED TO BE ELIGILBE FOR REIMBURSEMENT

Prior to the start of class 2:	100% refund (minus cost of any equipment, gear and/or application fee)
After class 2 and before class 6:	80% refund
After class 6 and before class 8:	70% refund
After class 8 and before class 10:	60% refund
After class 10 and before class 12:	50% refund
After class 12:	0% refund

PIT WELD U FEES

Persons enrolling in the Pit Weld U program are required to submit a completed application along with a non-refundable Application Fee due at the time of application. In addition, a Program Fee to cover all associated costs of each course is due prior to the start date of the scheduled program. There is also an optional Pit Weld U Payment Plan that may be selected for students who enroll in either Pit Weld U 100 or 200.

Pit Weld U 100 – 400 Application Fee / Deposit:	$700.00 due at application
Pit Weld U – 100 Program Fee:	$2,900.00 due on or before start date
Pit Weld U – 200 Program Fee:	$2,900.00 due on or before start date
Pit Weld U – 300 Program Fee:	$2,195.00 due on or before start date
Pit Weld U – 400 Program Fee:	$2,195.00 due on or before start date
Pit Weld U Payment Plan (100 & 200 only):	$600.00 due on or before start date **See terms below*

Fees listed above are for each respective course. If a student wishes to enroll in multiple courses, the fees as listed above are due for *each* course prior to their respective start dates.

PIT WELD U PAYMENT PLAN

The Pit Weld U payment plan is available *only* to students enrolling in Pit Weld U -100 or 200 (16-week courses). The total cost for Pit Weld U when the payment plan is selected is $3,900.00.

A $1,300.00 deposit (including the application fee) is required ***on or before the first night of class*.**

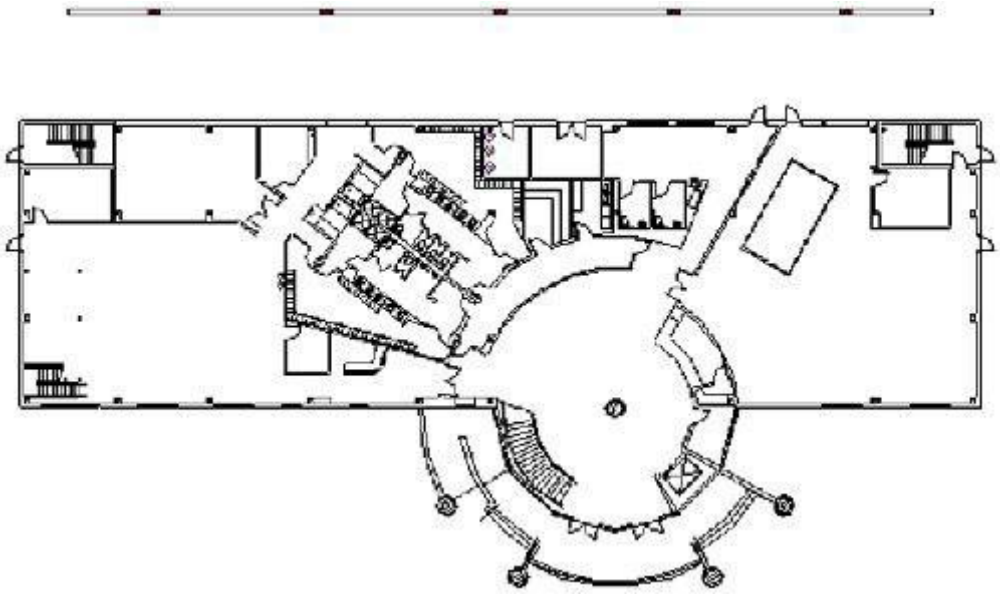
The remaining balance of $2,600.00 is broken into fifteen (15) weekly payments of $173.33 each and are due every Monday or Tuesday (depending on session) prior to the start of class during the course. Individuals unable to make the payments will be unable to complete the remainder of the course.

The payment plan is only available to students who are taking either Pit Weld U-100 *or* Pit Weld U-200 individually. Students taking both courses concurrently must pay for one of the courses in their entirety prior to the scheduled start date to be eligible for the payment plan as listed above for the second course.

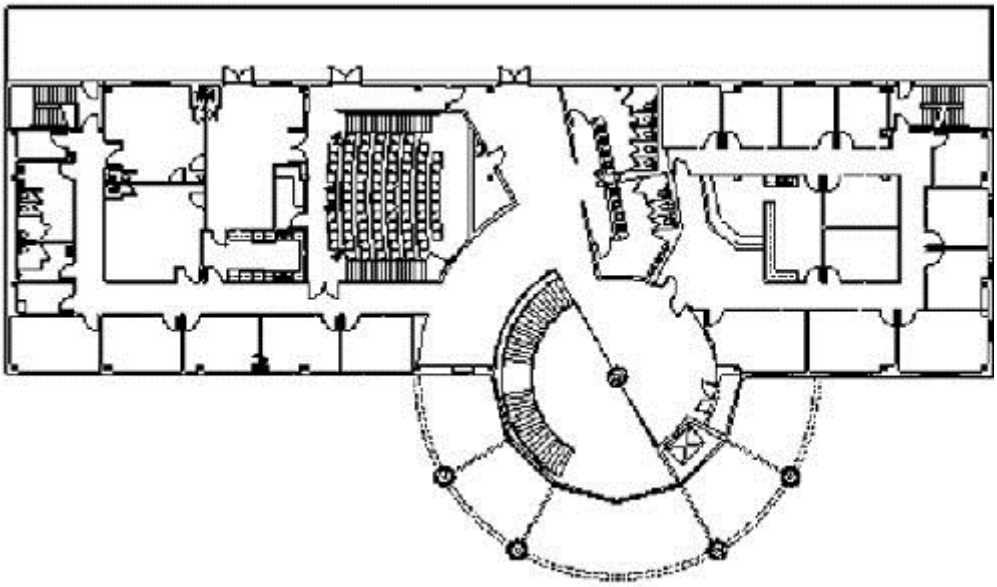
FACILITIES

One of the most unique venues in the Charlotte region, Performance Instruction & Training (PIT) offers 5.5 acres and 35,000 square feet of possibilities for your next event. From the outdoor track and pit road to the nearly 100 seat theatre, classrooms, and spacious lobby, PIT is diverse enough to offer the flavor of motorsports coupled with a beautiful facility with all the professional amenities of traditional event spaces.

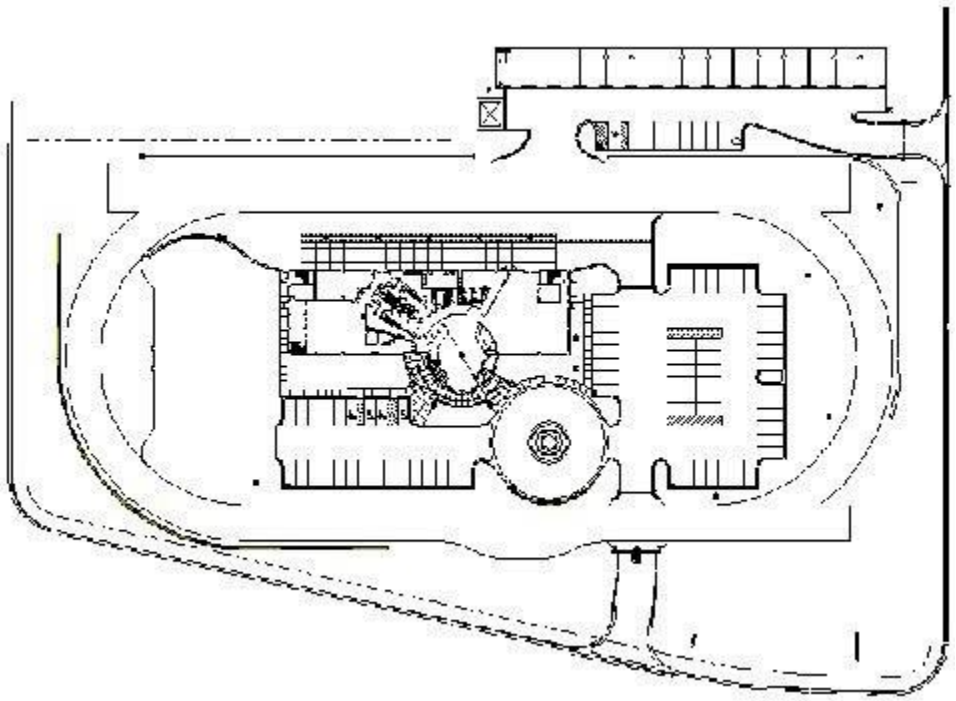
FACILITY FLOOR PLANS



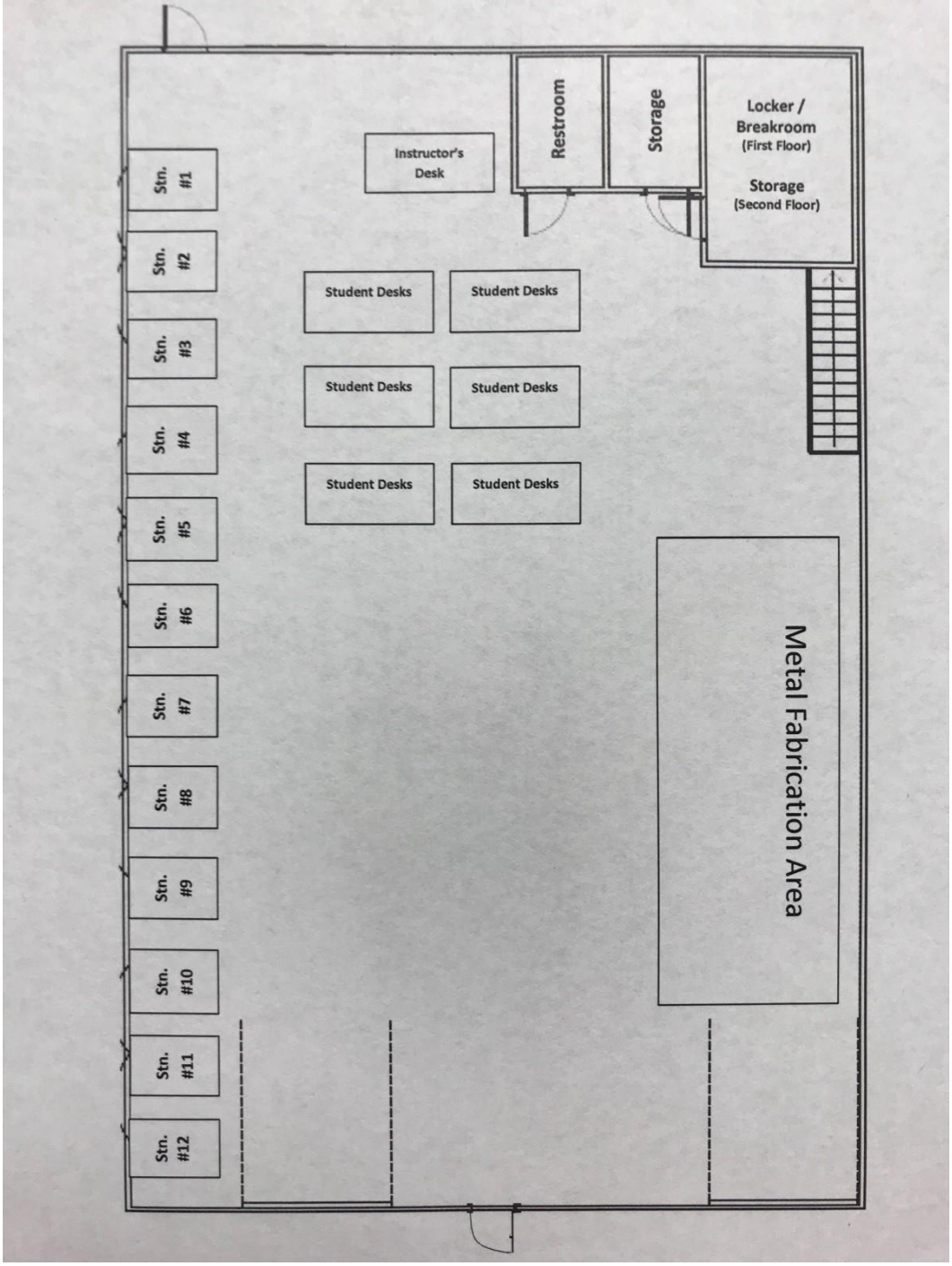
First Floor Plan: Lower Atrium (center), Motorsports Room (right), Fitness Center (left), and men's and women's locker rooms and steam room (middle left).



Second Floor Plan: Upper Atrium and Pre-function Area (center), Theatre (center left), Dining, Kitchen, and Group Meeting Rooms (upper left), Private Meeting Rooms and Board Room (bottom left), Outdoor Balcony (top), and Corporate Offices.



Site Map (above): Quarter mile track, fifteen garage bays (upper right), grass practice field (left), six pit stalls and pit road (middle top) and parking for visitor cars and buses including handicapped accessibility.



Welding Shop (above): Main entrance is the door on the bottom near the center of the image; rear entrance is located at the top left of the building. Twelve welding booths are located on the left side of the building, with storage room, restroom and desk/instructor space at the top. Fabrication and cutting equipment located at the right side of the image, with additional material storage in loft at top of stairs.

ACKNOWLEDGEMENT

I have carefully read the Pit Weld U School Catalog in its entirety, without any time constraints being placed upon me and fully understand and agree to be bound by its contents.

_____ _____/_____/_____

Signature Date

_____

Print Name