Atlantic Technical College					
Veiding Technology Program Syllabus 2020-2021					
Instructor Name: Mr. Frank Rose Department Name: Technical Trades Departmet Office/Classroom Location: Building 15, Roor Phone Number: (754) 321-5125. Email Address: frank.rose@browardschools.co			Instructor Office Hou 2:15PM to 4:15 PM (by appointment only)	<u>rs (M-F):</u>	
Student Hours: Monday – Friday	Program Name: Welding Technology Career Cluster: Manufacturing				
7:30am to 10:35am (Adults & High School 11th Graders) Lunch: 10:35am to 11:05am	OCP A	Course PMT007 PMT007	Number / Title 70 / Welder Assistant 1 71 / Welder Assistant 2	Course Length 150 hours 150 hours	
(Adults & High School 12th Graders) NOTE: All students are expected to be present during their entire scheduled	В	РМТ007 РМТ007	72 / Welder, SMAW 1 73 / Welder, SMAW 2	150 hours 150 hours	
class time(s). All classroom breaks will occur on an "as needed" basis. The wall clock in the classroom will serve as the official time.	С	РМТ007	74 / Welder	<u>450 hours</u> <b>1050</b> hours total (full-time, including summer	

## College Policy/Adult Student Attendance:

- A student must be withdrawn after being absent for six (6) consecutive days.
- Two (2) additional absences may be allowed under certain circumstance with appropriate documentation.
- Please refer to the Broward Technical College Student Handbook for postsecondary students. http://www.atlantictechnicalcollege.edu/atc-student-handbook/

## Dual Enrollment/Magnet High School/Attendance Policy:

A student who has had at least five unexcused absences, or absences for which the reasons are unknown, within a calendar month, or 10 unexcused absences, or absences for which the reasons are unknown, within a 90-calendar-day period, may be exhibiting a pattern of non-attendance (F.S.1003.26 (1) (b)) and the School Board of Broward County, Policy 5.5.

Required Books and Supplies (available at Campus Bookstore):	Required Tools / Retail Supplies (Some items are available at ATC
1. On Line Course: Tooling-U.com, Student(s)	Bookstore):
will purchase a 365 days subscription, in	1 Wolding Chield with a #40 an #44 land with even
2 Blueprint for Welders 9th Edition	clear plastic (Huntsman 451 recommended)
ISBN# 9781133605782	2. * Approved A.N.S.I. Z87 Clear Safety Glasses
3. One – 1", 3-Ring Hard Cover Binder (8.5" x	3. * Welding gloves (thick, Insulated for stick
11" with White Bond Paper)	welding)
4. Scientific Calculator 5. USB Drive / 8 GB	4. * Canvas jacket with leather sleeves. (sized to fit)
	5. * Chipping hammer
	6. * 6" inch wire brush
	7. * Cutting Goggles or (approved A.N.S.I. Z87
	Cutting Safety glasses with a #5 Lens (not part of
	8. * Flint Striker
	9. * Tip Cleaner
	10.* TIG welding gloves
	11.* Soap stone (used for marking metal during
	12. Tape Measure 25ft
	13. Wire Cutters
	14. 10" Vise Grips
	15. 10" Adjustable Wrench.
	Kit
	Items below must be purchased by H.S.
	students 16. Ear Plugs
	17. Cotton welding hat (no synthetic materials)
	18. Leather work boots (must be above the ankle
	Steel Toe is preferred)
	19. I wo locks for lockers with 2 keys or 2 combination locks
	20. Work clothing (100% cotton or wool or blend of
	both)
ADIII T STUDENTS All required books & some	materials/supplies can be purchased from the school

**ADULT STUDENTS**: All required books & some materials/supplies can be purchased from the school bookstore. Stop by during operational hours for pricing & purchasing information. All other required materials/retail supplies not available at the bookstore need to be purchased elsewhere. All required books and required materials/retail supplies need to be obtained prior to the start of the program.

**HIGH SCHOOL STUDENTS:** Students receive a required book will be issued one, if lost or missed placed the student will have to replace it at their own expense. Most of the required tools/supplies are on loan, high school students are responsible for the care and return of all of the required books and required tools/supplies on loan and will be issued an obligation for damaged or missing books and/or tools/supplies. Some of the required materials/supplies can be purchased from the school bookstore. All other required materials/retail supplies not available at the bookstore need to be purchased elsewhere.

Grading Scale / System:	Additional Dro	aram Spacific Gr	odina
	Adultional Fit	grain Specific Gra	ading
R 90 - 100 //	Evoluctions / C	rading	
C 70 70%	Wolding studer	<u>adiny</u> st(a) will receive a w	ookhu arodo
C 70-79%	veluing studer	the number of days	veekiy grade
D 60 - 69%	determined by	the number of days	auring the work
F U - 59%	week, as well a	is their performance	e in the classroom
I Incomplete	and or lab, thro	bugnout the week (s	ee below).
	Examples of cla	ass/lab performanc	e include:
	attendance, sta	arting and completin	
	assignments of	riad tasks on time,	remaining on task,
	participating in	cleanup, etc.)	
	Any days after	the first tardy, ten p	
	deducted per ta	ardy. There will be a	a loss of five points
	each day your	note dook is not in	class.
		Dessible sta /day [	Descible ate /week
	Days per week	Possible <u>pls./</u> day f	Possible <u>pls./week</u>
	5	20	100
	4	25	100
	3	33	99
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	* All lab work s	hould be presented	to the teacher
	(good, bad or u	alv) for review.	
Online Course Grading Policy:	(9000, 500 0. 0	. <u></u>	
Not Applicable			
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Updates occur).

- 9. No food and/or drinks are permitted around any computers.
- 10. Chairs will be placed on the tables in class room at the end of class.
- 11. Remain seated, when the bell rings, until you are dismissed.
- 12. Students must notify teacher, in advance, if planning to miss a portion of class time(s) for <u>ANY</u> reason.
- 13. Students shall familiarize themselves and adhere to all safety procedures in Classroom Safety Manual and Lab.
- 14. No student should work in or enter the lab until they have had a lab orientation.
- 15. Student(s) must not operate any piece of equipment until they have been trained and have been

authorized to operate it.

- 16. Wear approved <u>A.N.S.I. Z87</u> safety glasses in the lab at **all times. No Exceptions!** <u>NO</u> <u>SUNGLASSES in classroom and or lab at any time.</u>
- 17. Shirt or any loose clothing must be tucked in or tied out of the way of hazards.
- 18. A face shield must be worn when operating a hand grinder, <u>power wire brush</u>, bench grinder, belt sander, <u>or any power tool</u>.
- 19. Long hair must be tied back out of the way of any hazards.
- 20. No jewelry is to be worn in the lab at any time.
- General work clothing used in the lab must be 100% cotton or wool, 100% cotton hat or blend of the above. (Refer to Chapter 2 in the welding textbook or Tooling-U, Per. Protect Equip. 120 (PPE 120)).
- 22. <u>Special protective clothing</u> must be worn during the welding operation, proper hand, body waist and lap, arm protection and etc. are required to be use during the above operation(s).
- 23. Boots (read chapter 2 in the welding textbook or Tooling-U, PPE 120).
- 24. No matches or cigarette lighters in the lab area or on your body at any time.
- 25. Student(s) will not talk or interrupt other students while welding or operating equipment, you must wait for the operator to stop operating the equipment first.
- 26. No liquids will be placed on any devise that contain electric, welding machines, electrical boxes, etc.
- 27. No smoking on ATC's campus of any kind, at any time.

## Lab Clean-up will be consisted of:

- 28. Return <u>all tool(s)</u> and <u>your electrode</u> can, that were checked out, to the tool room each day.
- 29. Sweep off your work bench, the floor in the welding booth and under the welding machine. Roll up the welding cables and place them on the hook in the welding booth.
- 30. Remove all metal from the welding booth and place it in your metal locker or the scrap bin. If it is still <u>hot</u>, cool the hot metal first.
- 31. First, turn off the power to the welding machine.
- 32. Second, turn off the power at the electrical breaker box, outside the welding booth.
- 33. Return your welding equipment to your locker.
- 34. Return your chair to the top of the work bench.
- 35. Sweep your assigned lab area and dust off equipment in your area.

NOTE: All the rules above must be followed by each student everyday (no exceptions).

Industry Credentials: American Welding Society Welding	Outstanding Student Recognition Information:
Certification.	A gold seal will be applied to a Program Completion Certificate or an Applied Technology

36.

<ul><li>Price for the A.W.S. Welding Certification(s),</li><li>\$20 for steel plate each and \$30 for</li></ul>	Diploma if the student has earned a 3.5 GPA or higher in their Career and Technical Education			
steel pipe each.	(CTE) classes.			
Program Name: Welding Technology				
Course Number: PMT0070 Course Title: Welder Assistant 1 Occupational Completion Point: A Intended Outcomes: 01.0 Demonstrate an understanding and apply workplace safety and workplace organization skills.				
02.0 Demonstrate basic knowledge of industrial and manufacturing processes. 03.0 Describe and identify metal and their properties accurately. 04.0 Demonstrate basic knowledge of drawing and interpreting AWS welding symbols. 05.0 Apply basic Oxyfuel gas cutting principles and practices. 06.0 Create a product using basic Oxyfuel gas cutting principles and practices.				
Course Number: PMT0071 Course Title: Welder Assistant 2 Occupational Completion Point: A Intended Outcomes: 07.0 Apply intermediate Oxyfuel gas cutting principles and practices. 08.0 Demonstrate plasma arc cutting principles and practices. 09.0 Demonstrate a basic understanding of shielded metal arc welding (SMAW). 10.0 Create a product using basic shielded metal arc welding (SMAW) principles and practices.				
Course Number: PMT0072 Course Title: Welder, SMAW 1 Occupational Completion Point: B Intended Outcomes: 11.0 Apply basic shielded metal arc welding (SMAW) skills. 12.0 Demonstrate and apply Carbon Arc Gouging (GAC) principles and practices. 13.0 Apply visual examination skills. 14.0 Create a product using Carbon Arc Gouging and basic shielded metal arc welding (SMAW) principles and practices.				
<ul> <li>Course Number: PMT0073</li> <li>Course Ttile: Welder, SMAW 2</li> <li>Occupational Completion Point: B</li> <li>Intended Outcome:</li> <li>15.0 Demonstrate and understanding of employability skills and career opportunities related to the welding industry.</li> <li>16.0 Apply intermediate shielded metal arc welding (SMAW) skills.</li> <li>17.0 Create a product using intermediate shielded metal arc welding (SMAW) principles and practices.</li> </ul>				
Course Number: PMT0074 Course Title: Welder Occupational Completion Point: C Intended Outcomes:				

18.0 Apply basic gas metal arc welding (GMAW) skills.

19.0 Apply intermediate gas metal arc welding (GMAW) skills.

20.0 Apply basic flux-cored arc welding (FCAW) skills.

21.0 Apply intermediate flux-cored arc welding (FCAW) skills.

22.0 Apply basic gas tungsten arc welding (GTAW) skills.

23.0 Apply intermediate basic gas tungsten arc welding (GTAW) skills.

24.0 Demonstrate an understanding of pipe welding principles and practices.

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