

Semester 1		Semester 2	
<p><i>District Pre-Assessment</i></p> <p><u>Unit 1 (Week1)</u></p> <p>Basic Safety</p> <ul style="list-style-type: none"> Shop Safety procedures (Standards: 1.0) <p><u>Unit 2 & 3 (Week 2)</u></p> <p>Construction Math & Welding Safety</p> <ul style="list-style-type: none"> Basic math skills Shop Safety procedures (Standards: 1.0, 7.0) <p><u>Units 4 & 5 (Weeks 3-7)</u></p> <p>Oxy-Fuel & Plasma Arc Cutting</p> <ul style="list-style-type: none"> OFC equipment & projects PAC equipment & projects (Standards: 1.0, 2.0, 7.2, 7.3) <p><u>Unit 6 & 7 (Week 8)</u></p> <p>SMAW Equipment, Setup & Electrodes</p> <ul style="list-style-type: none"> SMAW Equipment Identify electrode classification & storage (Standards: 1.0, 3.1, 3.2, 3.3) 	<p><i>Welding Thunder</i></p> <p><u>Unit 8 (Weeks 9-16)</u></p> <p>SMAW Beads & Fillet Welds</p> <ul style="list-style-type: none"> 1F Pad Welds using 6010 & 7018 2F, 3F, 4F Tee-joints using 6010 & 7018 (Standards: 1.0, 2.4, 3.4, 3.5, 8.3, 9.0) <p><u>Units 9 & 10 (Week 17)</u></p> <p>Hand Tools & Weld Quality</p> <ul style="list-style-type: none"> Identify hand tools Identify weld defects (Standards: 9.7) <p><u>Units 11 & 12 (Week 18)</u></p> <p>Base Metal Prep, Joint Fit-up & Alignment</p> <ul style="list-style-type: none"> Prepping of materials Fit-up/Alignment of plate & pipe (Standards: 8.0) <p><i>SkillsUSA Fall Conference</i></p> <p><u>Unit 13 (Weeks 19-21)</u></p> <p>SMAW Groove welds with Backing</p> <ul style="list-style-type: none"> 2G groove weld with backing (<i>American Welding Society (AWS) Weld Certification</i>) (Standards: 1.0, 2.2, 2.4, 3.5, 7.5, 8.2, 8.3, 9.0) <p><i>Semester Exam</i></p>	<p><i>SkillsUSA Regional Conference</i></p> <p><u>Unit 13 (Weeks 22-31)</u></p> <p>SMAW Groove welds with Backing</p> <ul style="list-style-type: none"> 3G, 4G groove welds with backing (<i>AWS Weld Certification</i>) (Standards: 1.0, 2.2, 2.4, 3.5, 7.5, 8.2, 8.3, 9.0) <p><u>Unit 14 (Week 28)</u></p> <p>Power Tools</p> <ul style="list-style-type: none"> Identify power tools (Standards: 9.0) 	<p><u>Unit 15 (Weeks 32-37)</u></p> <p>SMAW Open Groove Welds</p> <ul style="list-style-type: none"> 2G, 3G, 4G open groove welds (Standards: 1.0, 2.2, 2.4, 3.5, 7.5, 8.1, 8.3, 9.0) <p><i>SkillsUSA State Conference</i></p> <p><i>Cochise College Welding Competition</i></p> <p><i>Best in the West Competition</i></p> <p><u>Unit 16 (Weeks 34-39)</u></p> <p>Carbon Arc Gouging & Cutting</p> <ul style="list-style-type: none"> Remove weld from joint and cut a u-groove (Standards: 7.4) <p><u>Unit 17 (Week 37)</u></p> <p>Construction Drawings</p> <ul style="list-style-type: none"> Identify parts on a construction drawing (Standards: 2.0) <p><i>District Post-Assessment</i></p> <p><i>SkillsUSA National Conference</i></p> <p><i>National Center for Construction Education & Research (NCCER) Level 1 Certification</i></p>
<p style="text-align: center;">Learning experiences provided over the course of the year Workplace Employability Skills & Leadership Development – SkillsUSA</p>			

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<p><u>Unit 1 (Week 1)</u></p> <p>Reading Welding Detail Drawings</p> <ul style="list-style-type: none"> Identify parts of blueprint (Standards: 2.0) <p><u>Unit 2 (Week 1-2)</u></p> <p>Welding Symbols</p> <ul style="list-style-type: none"> Identify weld symbols (Standards: 2.0) <p><u>Unit 3 (Week 2-5)</u></p> <p>SMAW Open Groove Welds</p> <ul style="list-style-type: none"> 3G, 4G open groove welds (Standards: 1.1, 2.2, 2.4, 3.5, 7.5, 8.1, 8.3, 9.0) <p><u>Unit 4 (Week 6)</u></p> <p>GMAW/FCAW Equipment & Filler Metals</p> <ul style="list-style-type: none"> Identify GMAW/FCAW Equip Identify filler metals (Standards: 4.1, 4.2, 4.3, 4.4, 4.7, 5.1, 5.2, 5.3) <p><u>Unit 5 (Week 6--10)</u></p> <p>GMAW/FCAW: Plate</p> <ul style="list-style-type: none"> 2F, 3F, 4F GMAW short-circuit transfer 2F FCAW tee-joint (Standards: 1.1, 2.4, 4.5, 8.1, 8.3, 9.0) 	<p><i>Welding Thunder</i></p> <p><u>Unit 6 (Week 11-21)</u></p> <p>GMAW/FCAW: Plate</p> <ul style="list-style-type: none"> 3F, 4F FCAW tee-joints 2G, 3G, 4G FCAW v-groove with backing (<i>AWS Weld Certification</i>) 2F, 3F GMAW spray transfer (Standards: 1.1, 2.4, 4.5, 7.5, 8.1, 8.3, 9.0) <p><i>SkillsUSA Fall Conference</i></p> <p><u>Unit 7 (Week 17)</u></p> <p>Basic Rigging</p> <ul style="list-style-type: none"> Rigging hand signals Lifting loads <p><u>Unit 8 (Week 17)</u></p> <p>Intro to Material Handling</p> <ul style="list-style-type: none"> Proper lifting techniques <p><i>Semester Exam</i></p>	<p><i>SkillsUSA Regional Conference</i></p> <p><u>Unit 9 (Week 22-23)</u></p> <p>GMAW/FCAW: Plate</p> <ul style="list-style-type: none"> 4F GMAW spray transfer 2G GMAW open groove weld (Standards: 1.1, 2.4, 4.5, 7.5, 8.3, 9.7) <p><u>Unit 10 & 11 (Week 24)</u></p> <p>Physical & Mechanical Properties of Metal</p> <ul style="list-style-type: none"> Identify mechanical properties of metal (Standards: 8.1) <p><u>Unit 11 (Week 24)</u></p> <p>GTAW Equipment & Filler Metals</p> <ul style="list-style-type: none"> Identify GTAW equipment Identify gases & filler metal (Standards: 6.1, 6.2, 6.3, 6.4) <p><u>Unit 12 (Week 24-31)</u></p> <p>GTAW: Plate</p> <ul style="list-style-type: none"> 1F Pad weld on carbon steel 2F, 3F, 4F t-joints on carbon steel 2G, 3G open v-groove weld on carbon steel (Standards: 1.1, 2.4, 6.7, 8.3, 9.7) <p><u>Unit 13 (Week 28)</u></p> <p>Basic Communication Skills</p> <ul style="list-style-type: none"> Identify keys to good & bad communication skills (Standards: WES Standard IC) 	<p><u>Unit 14 (Week 31-39)</u></p> <p>GTAW: Plate</p> <ul style="list-style-type: none"> 3G, 4G open v-groove welds on carbon steel 1G aluminum butt-joint 2F aluminum tee-joint 2F aluminum lap-joint 2F stainless steel tee-joint (Standards: 1.1, 2.4, 6.2, 6.5, 6.6, 7.5, 8.3, 9.7) <p><i>SkillsUSA State Conference</i></p> <p><i>Cochise Welding Comp</i></p> <p><i>Best In The West Comp</i></p> <p><i>ADE Skill Standards Assessment</i></p> <p><u>Unit 15 (Week 37)</u></p> <p>Basic Employability Skills</p> <ul style="list-style-type: none"> Identify keys to good & bad employability skills <p><i>SkillsUSA National Conference</i></p> <p><i>NCCER Core & Level 2 Certification</i></p>
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