

HAZLETON AREA SCHOOL DISTRICT



DISTRICT UNIT/LESSON PLAN

Teacher Name : Richard Tihansky

Subject : Welding Technology

Continuing Date(s): Q1 Week 1 Grade Level (s): 10-11-12

Building : HACC

Unit Plan

Unit Title: Welding Safety

Essential Questions: What are some of the main causes of accidents in the welding field?
 Why should welders always stay focused while working in the shop?
 Why must welders wear proper PPE when welding?
 What general practice should be followed regarding ventilation when performing welding?

Standards: Standard CC.3.5.9-10B Determine the central ideas or conclusions of a text; etc....
Standard CC.3.6.9-10.B Write informative or explanatory texts, including the narration of technical processes, etc.
Standard 2.1.HS.F.5 Choose a level of accuracy appropriate to limitations on measurement when reporting quantities

Summative Unit Assessment: P.O.S. 100: Occupational Orientation and Safety.

| Summative Assessment Objective | Assessment Method (check one) |
|--|---|
| Students will, <ul style="list-style-type: none"> • Gain an understanding of welding safety. • Be able to identify different articles of PPE and describe its function. • Identify hazards that may be present in the welding shop. • Learn the use of ventilation equipment | <input checked="" type="checkbox"/> Rubric <input checked="" type="checkbox"/> Checklist <input type="checkbox"/> Unit Test <input type="checkbox"/> Group <input checked="" type="checkbox"/> Student Self-Assessment <input type="checkbox"/> Other (explain) |

DAILY PLAN

| Day | Objective (s) | DOK LEVEL | Activities / Teaching Strategies | Grouping | Materials / Resources | Assessment of Objective (s) |
|-----|---|-----------|--|----------|---|---|
| 1 | Students will-perform safety inspections of welding PPE and accessories. | 3 | Read chapter 2 in the Welding Skills Text beginning on page 9 Identify proper PPE to be utilized while operating equipment. Identify the different articles of PPE | S | Welding Skills Text Book Various Personal Protective Equipment Welding Laboratory | Formative -Upon completion of the Safety unit the students will pass a written exam. Summative - The student will pass a performance test on PPE and welding Safety Student Self - Assessment -The students will analyze their PPE for visual defects. |
| 2 | Students will-perform safety inspections of welding PPE and accessories. | 3 | Read chapter 2 in the Welding Skills Text beginning on page 9 Identify proper PPE to be utilized while operating equipment. Identify the different articles of PPE | S | Welding Skills Text Book Various Personal Protective Equipment Welding Laboratory | Formative -Upon completion of the Safety unit the students will pass a written exam. Summative - The student will pass a performance test on PPE and welding Safety Student Self - Assessment -The students will analyze their PPE for visual defects. |
| 3 | Students will-perform safety inspections of welding PPE and accessories. | 3 | Read chapter 2 in the Welding Skills Text beginning on page 9 Identify proper PPE to be utilized while operating equipment. Identify the different articles of PPE | S | Welding Skills Text Book Various Personal Protective Equipment Welding Laboratory | Formative -Upon completion of the Safety unit the students will pass a written exam. Summative - The student will pass a performance test on PPE and welding Safety Student Self - Assessment -The students will analyze their PPE for visual defects. |
| 4 | Students will-perform safety inspections of GTAW equipment and accessories. | 3 | Read chapter 2 in the Welding Skills Text beginning on page 9 Identify proper PPE to be utilized while operating equipment. Identify the different articles of PPE | S | Welding Skills Text Book Various Personal Protective Equipment Welding Laboratory | Formative -Upon completion of the Safety unit the students will pass a written exam. Summative - The student will pass a performance test on PPE and welding Safety Student Self - Assessment -The students will analyze their PPE for visual defects. |
| 5 | Students will-perform safety inspections of welding PPE and | 3 | Read chapter 2 in the Welding Skills Text beginning on page 9 Identify proper PPE to be utilized while operating | S | Welding Skills Text Book Various Personal Protective Equipment | Formative -Upon completion of the Safety unit the students will pass a written exam. |

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|---|--|---|--|---|---|--|
| | accessories. | | equipment. Identify the different articles of PPE | | Welding Laboratory | Summative- The student will pass a performance test on PPE and welding Safety Student Self - Assessment- The students will analyze their PPE for visual defects. - |
| 6 | Students will-perform safety inspections of welding PPE and accessories. | 3 | Read chapter 2 in the Welding Skills Text beginning on page 9 Identify proper PPE to be utilized while operating equipment. Identify the different articles of PPE | S | Welding Skills Text Book Various Personal Protective Equipment Welding Laboratory | Formative- Upon completion of the Safety unit the students will pass a written exam. Summative- The student will pass a performance test on PPE and welding Safety Student Self - Assessment- The students will analyze their PPE for visual defects. |