

## CATA Curricular Code Change Proposal

Contest	Agriculture Welding
Proposed By	Kory Fontes Cuesta College koryfontes@gmail.com
Issue	The Agriculture Welding Curricular Code has not been fully revised since its creation over 10 years ago. The contest has grown immensely over the past 6 years requiring elimination round to be added to the curricular code in 2016. There are numerous areas of the Curricular Code that need to be clarified and simplified for advisors and coaches as well as new changes that have been discussed by the coaches of the top completing teams and the State Finals hosts.
The proposed change will affect tabulations.	YES
Description:	<b>TIE BREAKER</b> – The Secondary Tie Breaker will change from the Job Portfolio to the Welding Application affecting the <u>Tabulations</u> .
Proposed CATA Code Changes:	
SCOPE OF THE CONTEST	<p><i>(*A minimum of three, maximum of four, processes will be incorporated into the applied portion of the contest.)</i></p> <p><b>*A minimum of three, processes will be incorporated into the applied portion of the contest.</b></p>
CONTESTANTS	<p><i>(The team shall consist of three or four members. The scores of the three highest team members shall be used for the team score. All team members are eligible for individual awards. State Finals contest will consist of a preliminary round and a final round. The preliminary round will be held Friday and the final round will be held the following day. To qualify for the final round, a team must be in the top 20 teams after the preliminary round. The preliminary round will consist of the Written Test. In the preliminary round, in the case of a tie, the safety questions portion will be used as the tie breaker. The top 20 teams will be posted at the conclusion of the preliminary round tabulations. The top 20 teams will submit their Job Portfolio portion of the contest to be graded. Preliminary round scores will be added to the final round scores on Saturday.)</i></p> <p><b>If the number of teams eligible to compete at the State Finals contest exceeds the number the Contest Hosts feels they can safety accommodate, the State Finals Contest Host will hold a preliminary round and a final round. The preliminary round will be held Friday and the final round will be held the following day. All contestants will compete in the preliminary round, which will consist of the Written Test class with the top combined team scores propelling them into the final round.</b></p> <p><b>The tiebreaker will first be the contestant’s individual scores beginning with highest individual, then second highest and so on. If a tie still persists, the welding symbols questions of the test will be used.</b></p> <p><b>The contest host will announce the number of teams moving on to the final round no less than 14 days before the State Finals contest. The preliminary round will be used to eliminate a minimum of four competing teams. Preliminary round scores will be added to the final round scores on Saturday.</b></p> <p><b>The team shall consist of three or four members. The scores of the three highest team members shall be used for the team score. All team members are eligible for individual awards.</b></p>

TIE BREAKER	<p><i>(Breaking Of Ties)</i></p> <p><b>Tie Breaker</b></p> <p><i>(portfolio)</i></p> <p><b>Welding application</b></p>
EVENT RULES	<p><i>(III. 6. Appropriate leather welding jacket)</i></p> <p><b>III. 6. Appropriate leather welding jacket</b></p> <p><b>7. Leather boots</b></p> <p><i>(III. B. Tools</i></p> <ol style="list-style-type: none"> <li>1. <i>Tape measure</i></li> <li>2. <i>Magnetic Square</i></li> <li>3. <i>Soap Stone</i></li> <li>4. <i>Combination Square</i></li> <li>5. <i>6" Steel Rule</i></li> <li>6. <i>Chipping hammer</i></li> <li>7. <i>Steel Brush)</i></li> </ol> <p><b>III. A. Contestant may bring the following approved tools to use during the Welding Application rotations. If any tools are found being used that are not listed below will be confiscated.</b></p> <ol style="list-style-type: none"> <li>1. <b>Steel Tape Measure</b></li> <li>2. <b>6" Steel Rule</b></li> <li>3. <b>Combination Square</b></li> <li>4. <b>Rafter Square/Speed Square</b></li> <li>5. <b>Try Square</b></li> <li>6. <b>Depth Gauge</b></li> <li>7. <b>Calipers</b></li> <li>8. <b>Protractor</b></li> <li>9. <b>Compass</b></li> <li>10. <b>Magnetic Square</b></li> <li>11. <b>Soap Stone</b></li> <li>12. <b>Chipping hammer</b></li> <li>13. <b>Wire Steel Brush</b></li> <li>14. <b>Locking Welding Clamp</b></li> <li>15. <b>Locking Pliers</b></li> <li>16. <b>Diagonal Cutting Pliers</b></li> <li>17. <b>Whelpers</b></li> <li>18. <b>Metal File</b></li> <li>19. <b>Scratch Awl</b></li> <li>20. <b>Oxy-Fuel Torch Tip Cleaner</b></li> <li>21. <b>Cutting Guide</b></li> <li>22. <b>Pen</b></li> <li>23. <b>Pencil</b></li> <li>24. <b>Marking Pencil</b></li> </ol>

	<p><i>(IV. Contest uniform will consist of the following:</i></p> <ul style="list-style-type: none"> <li>A. Long sleeve, button down, white cotton shirt</li> <li>B. Black work pants</li> <li>C. Closed toed, leather boots</li> <li>D. Appropriate coveralls or leather work apron</li> <li>E. FFA jacket and tie not to be used during the contest, but required to receive awards at award ceremony)</li> </ul> <p><b>IV. Contest uniform will consist of the following:</b></p> <ul style="list-style-type: none"> <li>A. Black work pants-No synthetic materials</li> <li>B. Closed Toed Leather Boots</li> <li>C. Long sleeve, button down, white cotton shirt</li> <li>D. FFA Jacket*</li> <li>E. FFA Tie*</li> <li>F. Appropriate coveralls, Leather work apron with sleeves, Welding Jacket, Long Sleeve Shirt</li> </ul> <p style="text-align: center;"><b>*To be worn during check in ONLY with black pants, white long sleeve button down and leather boots and not during the contest</b></p> <p><i>Additional Information-</i></p> <p><b>V. If it is determined that the machine malfunctions beyond the contestants control, the contestant will be given the opportunity to redo that rotation at no penalty to their score.</b></p>
<p>CONTEST AREA DESCRIPTIONS</p> <p>I. Welding Application (200 points)</p>	<p><i>(B. Welding Processes: As outlined in the Contest Scope, there are six processes described as competency areas for the contestants. They are SMAW, GMAW, FCAW, GTAW, OFW and the Cutting Processes. The possible cutting processes include Plasma Arc Cutting (PAC), Oxy-fuel Cutting (OFC), and Air Carbon Arc Cutting/Gouging (CAC). Contestants will have projects which incorporate four of the six processes. Cutting may comprise a maximum of one of the four required exercises. Rotations will be set up by the host committee.)</i></p> <p><b>B. Welding Processes: As outlined in the Contest Scope, there are six processes described as competency areas for the contestants. They are SMAW, GMAW, FCAW, GTAW, OFW and the Cutting Processes. The possible cutting processes include Plasma Arc Cutting (PAC), Oxy-fuel Cutting (OFC), and Air Carbon Arc Cutting/Gouging (CAC). Contestants will have projects, which incorporate a minimum of three and a maximum of four of the six processes. Cutting may encompass a maximum of one of these required exercises. The host committee has the right to choose the rotations that will be used.</b></p> <p><i>(D. Filler Metals: Contestants should be able to weld with a variety of filler metals.)</i></p> <p><b>D. Filler Metals: Contestants should be able to identify and weld with a variety of filler metals that correspond to the proper welding process and base metals.</b></p> <p><i>(E. Welding Positions and Joints: Contestants will weld in the flat (1G and 1F), horizontal (2G and 2F), vertical (3G and 3F) and overhead (4G and 4F) positions.)</i></p> <p><b>E. Welding Positions: Contestants may weld in the flat (1G and 1F), horizontal (2G and 2F), vertical (3G and 3F) and overhead (4G and 4F) positions.</b></p> <p><i>(F. Possible Joint Configurations: Joint configurations will include square butt or prepared groove, lap and T fillet, pipe to plate or pipe to pipe joints.)</i></p> <p><b>F. Possible Joint Configurations: Joint configurations may include: Butt Joints, Corner Joints, Lap Joints, Edge Joints, and/or Tee Joints that may include plate to plate, pipe to plate or pipe to pipe connections.</b></p>

	<p>Inserted</p> <p><b>G. Possible Welds: Contestants must be prepared to weld: bevel-groove welds, fillet welds, square groove welds, and/or v-groove welds.</b></p> <p>(G. <i>Welding Equipment/Machines:</i> Welding equipment may be obtained from a variety of sources and may include transformer, transformer/rectifier and/or inverters.)</p> <p><b>H. Welding Equipment/Machines: Welding equipment may be obtained from a variety of sources and may include transformer, transformer/rectifier generators, and/or inverters.</b></p> <p>(H. An example plan set is included in appendix)</p> <p>Deleted</p>
<p>IV. Job Portfolio and Application (50 points)</p>	<p>(A. <i>Overview:</i> All contestants will submit a prepared job portfolio to the judging committee. Additionally, contestants will fill out a sample job application on site as one of the rotations. The job application will include basic personal information and five basic math problems, which could include addition, subtraction, multiplication and dividing whole numbers, fractions, and decimals. All math problems will relate to the welding industry. Host school will provide four-function calculators.)</p> <p><b>A. Overview: All contestants will submit a digital job portfolio to the judging committee. The portfolio must be submitted to the contest host by 11:59pm on the Wednesday immediately prior to contest to allow ample time for the portfolios to be graded. Each contestant will submit his or her portfolio as a PDF. Any portfolios submitted in another format will be disqualified. Additionally, contestants will complete a sample job application on site as one of the rotations.</b></p> <p>(B. <i>Portfolios:</i> (40 points) Portfolios will consist of the following components: Title Page, Table of Contents, Letter of Introduction, Resume, Letter of Recommendation, and Work Samples. All portfolios are to be prepared on plain white paper and stapled in the upper left hand corner. No specialty paper, fonts or portfolio covers will be accepted. Work samples should not exceed three actual samples and photos should not exceed three pages. Work sample pages will use the state proficiency photo page template with a maximum 50 word write-up which may include; project description, equipment used, materials used and any special procedures.)</p> <p><b>B. Portfolios: (40 points) Portfolios will consist of the following components: Title Page, Table of Contents, Letter of Introduction, Resume, Letter of Recommendation, and Supporting Evidence. All components must follow current, professional standards. Supporting Evidence will use the current FFA Proficiency Photo Pages. See attached rubric for additional scoring information.</b></p> <p>(C. <i>Job Application:</i> (15 points) A sample job application will be completed as one of the rotations at the contest site. These applications are intended to reflect the practice of handwriting an application as is found in many vocational/trade situations. Contestants should be able to write legibly and fully complete an application for employment. References, education and work history may be prepared prior to the contest and utilized while completing this application. The job application will be 10 points and 5 points will be designated to the math calculations.)</p> <p><b>C. Job Application: (10 points) A sample job application will be completed as one of the rotations at the contest site. These applications are intended to reflect the practice of handwriting an application as is found in many vocational/trade situations. Contestants should be able to write legibly and fully complete an application for employment. A 3"x5" card may be prepared ahead of time to use as a reference during this rotation. The only supplemental information that may be used is: references names, addresses, phone numbers, place of employment address and</b></p>

	<p><b>place of employment phone number. See rubric below for additional scoring information</b></p> <p><i>(Rubric: Job Application Form &amp; Math Calculations)</i></p> <p><b>Restructured</b></p>
	<p><b><i>D. Math Calculations: (5 points)</i></b> The Math Calculations will consist of five basic math problems, which could include addition, subtraction, multiplication and dividing whole numbers, fractions, and decimals. All math problems will relate to the welding industry. Host school will provide basic four-function calculators for every student in each rotation. Contestants may utilize their own four-function calculators however cell phone calculators are prohibited. Each calculation is worth 1 point.</p>
<p>CONTEST REFERENCE MATERIAL</p>	<p><b>AWS D1.1 Structural Welding Code Steel</b>  <b>Section 6 - Inspection</b>  <a href="http://www.aws.org">www.aws.org</a>  <b>American Welding Society</b>  <b>550 N.W. LeJeune Road</b>  <b>Miami, Florida 33126</b>  <b>Phone: 800-443-9353 or 305-443-9353</b></p> <p><b>AWS A2.4 Standard Symbols for Welding, Brazing, and Nondestructive Examination</b>  <a href="http://www.aws.org">www.aws.org</a>  <b>American Welding Society</b>  <b>550 N.W. LeJeune Road</b>  <b>Miami, Florida 33126</b>  <b>Phone: 800-443-9353 or 305-443-9353</b></p>
<p>ATTACHMENTS</p>	<p><b>Portfolio Rubric</b>  <b>See attached Curricular Code</b></p> <p><b>Job Application Rubric</b>  <b>See attached revised Curricular Code</b></p>

## AGRICULTURAL WELDING

**Revised 6/2016**

### Purpose and Standards

To evaluate the contestant's manipulative skills, general knowledge and professional presentation as these correlate to his/her preparation for employment in the broad field of welding (agricultural, industrial, or other).

Foundation Standards: Mathematics Algebra, 10, 13, 15 and Geometry 9, 10, 11. Technology 4.1, 4.2, 4.6. Problem Solving and Critical Thinking 5.1. Health and Safety 6.2, 6.4, 6.5. Ethics and Legal Responsibilities 8.3. Leadership and Teamwork 9.1, 9.2, 9.3.

Agricultural Mechanics Pathway Standards: B1.1, B1.2, B3.1-B3.3, B5.1-B5.5, B7.1-B7.5, B8.1-B8.4, B9.1-B9.7.

### Scope of the Contest

Contestants will demonstrate their ability to perform jobs and skills that are reflective of those required in the welding industry. Specific competency areas will include the following:

Safety	*Shielded Metal Arc Welding (SMAW)	*Oxy Fuel Welding (OFW)
Measurement	*Gas Metal Arc Welding (GMAW)	*Cutting Processes
Blueprint Reading	*Flux Core Arc Welding (FCAW)	Weld Testing/Inspection
Project Layout	*Gas Tungsten Arc Welding (GTAW)	

\*A minimum of three processes will be incorporated into the applied portion of the contest.

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The contest will consist of a four way rotation including the following events or contest areas:

- Welding Application – Hands on component
- Written Test – General knowledge component
- Weld Testing/Inspection – Evaluation/quality control component
- Job Portfolio/Application – Professional presentation component

### Contestants

If the number of teams eligible to compete at the State Finals contest exceeds the number the Contest Hosts feels they can safely accommodate, the State Finals Contest Host will hold a preliminary round and a final round. The preliminary round will be held Friday and the final round will be held the following day. All contestants will compete in the preliminary round, which will consist of the Written Test class with the top combined team scores propelling them into the final round.

The tiebreaker will first be the contestant's individual scores beginning with highest individual, then second highest and so on. If a tie still persists, the welding symbols questions of the test will be used.

The contest host will announce the number of teams moving on to the final round no less than 14 days before the State Finals contest. The preliminary round will be used to eliminate a minimum of four competing teams. Preliminary round scores will be added to the final round scores on Saturday.

The team shall consist of three or four members. The scores of the three highest team members shall be used for the team score. All team members are eligible for individual awards.

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**Classes**

Class	Individual Points	Team Points
Welding Application	200	600
Written Test	100	300
Weld Testing/Inspection	50	150
Job Portfolio/Application	50	150
Total	400	1200

**Tie Breaker,**

1. In the Agricultural Welding Contest, individual or team ties will be broken on the basis of the highest individual or team score using the written test score.
2. If a tie still exists, the individual or team welding application score will be used to determine the high individual or team.

**Sub-contest Awards**

Sub-contest awards will be given for high teams and individuals in the following areas: Welding Application, Written Test, Weld Testing/Inspection, and Job Portfolio/Application.

**Requirement of Host Institution**

See equipment supplied by the host committee under Event Rules

**Event Rules**

- I. Each qualifying contestant must compete in all four events.
- II. Equipment supplied by the host committee:
  - A. All necessary welding machines
  - B. All consumables will be provided and contestants are required to utilize the provided materials
  - C. All instructions and procedure sheets with drawings
  - D. All materials for the host committee and judges
  - E. A four-function calculator for the Job Application rotation
- III. Equipment supplied by the contestant:
  - A. All PPE (Personal Protective Equipment)
    1. Safety glasses (approved ANSI Z87 with side-shields)
    2. Hearing and or ear protection
    3. Welding helmet/face shield/goggles with appropriate #5 - #7 filter lenses for the OFC and OFW processes
    4. Welding helmet with appropriate #10 - #12 filter lenses for the AW processes
    5. Leather gloves with gauntlets
    6. Appropriate leather welding jacket
    7. Leather Boots
  - B. Contestant may bring the following approved tools to use during the Welding Application rotations. If any tools are found being used that are not listed below will be confiscated.
    1. Steel Tape Measure
    2. 6" Steel Rule
    3. Combination Square
    4. Rafter Square/Speed Square
    5. Try Square
    6. Depth Gauge
    7. Calipers

**Deleted:** The team shall consist of three or four members. The scores of the three highest team members shall be used for the team score. All team members are eligible for individual awards. State Finals contest will consist of a preliminary round and a final round. The preliminary round will be held Friday and the final round will be held the following day. To qualify for the final round, a team must be in the top 20 teams after the preliminary round. The preliminary round will consist of the Written Test. In the preliminary round, in the case of a tie, the safety questions portion will be used as the tie breaker. The top 20 teams will be posted at the conclusion of the preliminary round tabulations. The top 20 teams will submit their Job Portfolio portion of the contest to be graded. Preliminary round scores will be added to the final round scores on Saturday.

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- 8. [Protractor](#)
- 9. [Compass](#)
- 10. [Magnetic Square](#)
- 11. [Soap Stone](#)
- 12. [Chipping hammer](#)
- 13. [Wire Steel Brush](#)
- 14. [Locking Welding Clamp](#)
- 15. [Locking Pliers](#)
- 16. [Diagonal Cutting Pliers](#)
- 17. [Whelpers](#)
- 18. [Metal File](#)
- 19. [Scratch Awl](#)
- 20. [Oxy-Fuel Torch Tip Cleaner](#)
- 21. [Cutting Guide](#)
- 22. [Pen](#)
- 23. [Pencil](#)
- 24. [Marking Pencil](#)

IV. Contest uniform will consist of the following:

- A. [Black work pants-No synthetic materials](#)
- B. [Closed Toed Leather Boots](#)
- C. [Long sleeve, button down, white cotton shirt](#)
- D. [FFA Jacket\\*](#)
- E. [FFA Tie\\*](#)
- F. [Appropriate coveralls, Leather work apron with sleeves, Welding Jacket, Long Sleeve Shirt](#)  
\*To be worn during check in ONLY with black pants, white long sleeve button down and leather boots and not during the contest.

V. Contestants must correctly use the welding equipment during the contest. Equipment set up and operation is essential to the welder’s ability to function in the workplace. Students are expected to be familiar with a variety of machines and to be able to set up machines for the given process. If it is determined that the machine malfunctions beyond the contestants control, contestants will be given the opportunity to redo that rotation at no penalty to their score.

- VI. [At the time of the contest, plans and instructions will be provided to contestants.](#)
- VII. [Time limits will be set for each rotation and announced at the contest site.](#)
- VIII. [The sponsoring school has the option to include safe work habits as part of the scorecard of up to 10% of the total points possible in that specific skill event. After a warning, the sponsoring school reserves the right to remove any contestant that violates accepted safety practices that endanger him/her or others in the contest.](#)
- IX. [No unauthorized notes, printed materials, or tools may be used in any portion of the contest. Contestants found in violation will be disqualified from contest.](#)
- X. [Portable, cordless, rechargeable, battery powered tools may not be used in the contest.](#)
- XI. [While the contest is in progress, contestants shall not communicate with anyone but the judges. Any observed communications other than with the judges may result in disqualification of the individual or team.](#)
- XII. [Completed projects will be evaluated visually and may include nondestructive and/or destructive testing.](#)

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**Contest Area Descriptions:**

I. Welding Application (200 points)

- A. *Overview:* Contestants will be supplied plan sets at the contest site which outline the hands-on portion of the contest. These plan sets will be basic, three view, shop drawings which incorporate welding symbols and procedures. Contestants will be required to interpret the drawings and weld symbols to configure their projects following the described welding symbols, procedures and measurements. Projects will be submitted at the end of the prescribed time period for evaluation by the judges.
- B. *Welding Processes:* As outlined in the Contest Scope, there are six processes described as competency areas for the contestants. They are SMAW, GMAW, FCAW, GTAW, OFW and the Cutting Processes. The possible cutting processes include Plasma Arc Cutting (PAC), Oxy-fuel Cutting (OFC), and Air Carbon Arc Cutting/Gouging (CAC). Contestants will have projects, which incorporate a minimum of three of the six processes. Cutting may encompass a maximum of one of these required exercises. The host committee has the right to choose the rotations that will be used.
- C. *Base Metals:* Contestants may weld mild steel, aluminum and/or stainless steel.
- D. *Filler Metals:* Contestants should be able to weld with a variety of filler metals. Contestants should be able to identify and weld with a variety of filler metals that correspond to the proper welding processes and base metals.
- E. *Welding Positions:* Contestants will weld in the flat (1G and 1F), horizontal (2G and 2F), vertical (3G and 3F) and overhead (4G and 4F) positions.
- F. *Possible Joint Configurations:* Joint configurations will include square butt or prepared groove, lap and T fillet, pipe to plate or pipe to pipe joints.
- G. *Possible Welds:* Contestants must be prepared to weld: bevel-groove welds, fillet welds, square groove welds, and/or v-groove welds.
- H. *Welding Equipment/Machines:* Welding equipment may be obtained from a variety of sources and may include transformer, transformer/rectifier, generators and/or inverters.

**Deleted:** A total of four process areas will be completed scored at 50 points per process.

**Deleted:** (<#>). Contestants will have projects which incorporate four of the six processes. Cutting may comprise a maximum of one of the four required exercises. Rotations will be set up by the host committee.

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II. Written Test (100 points)

- A. A written test shall include questions and/or problems from the following areas:

1. Safety	10 points
2. Shielded Metal Arc Welding (SMAW)	10 points
3. Oxy Fuel Welding (OFW)	10 points
4. Gas Metal Arc Welding (GMAW)	10 points
5. Flux Core Arc Welding (FCAW)	10 points
6. Gas Tungsten Arc Welding (GTAW)	10 points
7. Cutting Processes	10 points
8. Welding Symbols	10 points
9. Weld testing, inspection and metallurgy	10 points
10. Welder Certification	10 points

**Deleted:** An example plan set is included in appendix A.

- B. The test may be true-false and multiple choice in any combination. The test will be comprised of 50 questions valued at 2 points per question.
- C. The questions for the written test will come from the *Welding Skills* textbook written by Moniz. The latest two editions will be used.

III. Weld Testing/Inspection (50 points)

- A. *Overview:* Contestants will evaluate weld samples utilizing visual testing methods (VT). Weld samples will be evaluated and compared to sections of the AWS D1.1 code for

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acceptability or rejection. Weld samples and appropriate code sections will be provided by the host committee. Contestants will also need to be familiar with common nondestructive testing (NDT) methods. This contest area will be a practical lab exercise whereby the contestants visit stations and provide responses on an answer sheet provided by the host committee. This will consist of 25 questions valued at 2 points per question.

- B. *Nondestructive Testing (NDT)*: Contestants should be able to identify common NDT methods by photograph or real physical examples. The following methods may be included in this contest area: Visual Testing (VT), Dye Penetrant testing (PT), Ultrasonic Testing (UT), Radiographic Testing (RT) and Magnetic Particle Testing (MT). Questions will include both visual identification, as well as some basic knowledge questions about the testing methods.
- C. *Visual Testing (VT)*: Contestants should be able to identify and measure the following surface indications: various forms of porosity, overlap/cold lap, undercut, cracks and inclusions. Upon identification, students should be able to measure these indications and reference the appropriate code section to determine whether the indication is an actual defect that would constitute rejection and repair. Code examples will be provided by the host committee and be based on the AWS D1.1 Structural Welding Code.

IV. Job Portfolio and Application (50 points)

- A. *Overview*: All contestants will submit a digital job portfolio to the judging committee. The portfolio must be submitted to the contest host by 11:59pm on the Wednesday immediately prior to contest to allow ample time for the portfolios to be graded. Each contestant will submit his or her portfolio as a PDF. Any portfolios submitted in another format will be disqualified. Additionally, contestants will complete a sample job application on site as one of the rotations.
- B. *Portfolios*: (40 points) Portfolios will consist of the following components: Title Page, Table of Contents, Letter of Introduction, Resume, Letter of Recommendation, and Supporting Evidence. All components must follow current, professional standards. Supporting Evidence will use the current FFA Proficiency Photo Pages. See attached rubric for additional scoring information.
- C. *Job Application*: (10 points) A sample job application will be completed as one of the rotations at the contest site. These applications are intended to reflect the practice of handwriting an application as is found in many vocational/trade situations. Contestants should be able to write legibly and fully complete an application for employment. A 3"x5" card may be prepared ahead of time to use as a reference during this rotation. The only supplemental information that may be used is: references names, addresses, phone numbers, place of employment address and place of employment phone number. See rubric below for additional scoring information
- D. *Math Calculations*: (5 points) The Math Calculations will consist of five basic math problems, which could include addition, subtraction, multiplication and dividing whole numbers, fractions, and decimals. All math problems will relate to the welding industry. Host school will provide basic four-function calculators for every student in each rotation. Contestants may utilize their own four-function calculators however cell phone calculators are prohibited. Each calculation is worth 1 point.

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**Job Application Rubric:**

<b>Job Application Form</b>	<b>10</b>	<p><b>9-10 Points</b></p> <ul style="list-style-type: none"> <li>• No spelling and/or grammatical errors</li> <li>• Neat and legible</li> <li>• All sections are complete</li> <li>• Follows instructions and uses proper employment format</li> <li>• Contains relevant, descriptive information</li> <li>• Consistent with Resume and Letter of Introduction</li> </ul>	<p><b>7-8 Points</b></p> <ul style="list-style-type: none"> <li>• Occasional spelling and/or grammatical errors</li> <li>• Predominately neat and legible</li> <li>• Many sections are complete</li> <li>• Follows instructions and uses proper employment format</li> <li>• Contains relevant information</li> <li>• Generally consistent with Resume and Letter of Introduction</li> </ul>	<p><b>5-6 Points</b></p> <ul style="list-style-type: none"> <li>• Persistent spelling and/or grammatical errors</li> <li>• Mostly neat and legible</li> <li>• Most sections are complete</li> <li>• Follows most instructions</li> <li>• Lacks relevant information</li> <li>• Mainly consistent with Resume and Letter of Introduction</li> </ul>	<p><b>3-4 Points</b></p> <ul style="list-style-type: none"> <li>• Frequent spelling and/or grammatical errors</li> <li>• Mostly disorganized and illegible</li> <li>• Many sections are incomplete</li> <li>• Does not follow Instructions</li> <li>• Lacks relevant information</li> <li>• Inconsistent with Resume and Letter of Introduction</li> </ul>	<p><b>1-2 Points</b></p> <ul style="list-style-type: none"> <li>• Constant spelling and/or grammatical errors</li> <li>• Disorganized and illegible</li> <li>• Incomplete</li> <li>• Does not follow Instructions</li> <li>• Lacks relevant information</li> <li>• Inconsistent with Resume and Letter of Introduction</li> </ul>
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**Contest Reference Material**

<p>The Procedure Handbook of Arc Welding, by Lincoln Electric Company, Cleveland, Ohio.  <a href="http://www.lincolnelectric.com">www.lincolnelectric.com</a>                  The Lincoln Electric Company                  22801 St. Clair Ave.                  Cleveland, OH 44117                  Phone: 216-481-8100</p>	<p>AWS A3.0 (Terms and Definitions) and AWS A2.4 (Symbols), American Welding Society.  <a href="http://www.aws.org">www.aws.org</a>                  American Welding Society                  550 N.W. LeJeune Road                  Miami, Florida 33126                  Phone: 800-443-9353 or 305-443-9353</p>
<p>The Educational Instructor’s Package, by Miller Electric Manufacturing Co.  <a href="http://www.millerwelds.com">www.millerwelds.com</a>                  Miller Electric Manufacturing Co.                  1635 W. Spencer St.                  P.O. Box 1079                  Appleton, WI 54912-1079                  Phone: 920-734-9821 Miller.</p>	<p>Welding Skills, by Moniz  <a href="http://www.atplearning.com">www.atplearning.com</a>                  American Technical Publishers                  10100 Orland Parkway #200                  Orland Park, IL 60467                  Phone: 708-957-1100</p>

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# Ag Welding Contest Portfolio Rubric

Contestant Name	School	Total Points <b>/35</b>
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	Points	Max Points	Exemplary	Effective	Acceptable	Developing	Poor	Missing
Title Page		<b>2</b>	<b>2 Points</b> <ul style="list-style-type: none"> <li>• Student Name</li> <li>• Chapter Name</li> <li>• Advisor Name</li> <li>• Contest Name</li> <li>• Contest Location</li> <li>• Date of Contest</li> <li>• All above information centered</li> </ul>				<b>1 Point</b> <ul style="list-style-type: none"> <li>• Missing any information in column one</li> <li>• Additional graphics added to the page</li> <li>• Spelling and/or grammatical errors found</li> </ul>	<b>0 points</b>
Table of Contents		<b>2</b>	<b>2 Points</b> <ul style="list-style-type: none"> <li>• Proper format and must include:                             <ul style="list-style-type: none"> <li>– Letter Of Introduction</li> <li>– Resume</li> <li>– Letter Of Recommendation</li> <li>– Supporting Evidence #1</li> <li>– Supporting Evidence #2</li> <li>– Supporting Evidence #3</li> </ul> </li> </ul>				<b>1 Point</b> <ul style="list-style-type: none"> <li>• Missing any information in column one</li> <li>• Does not follow proper Table Of Contents format</li> </ul>	<b>0 points</b>
Letter of Introduction		<b>10</b>	<b>9-10 Points</b> <ul style="list-style-type: none"> <li>• Properly addressed to a local business</li> <li>• No spelling and/or grammatical errors</li> <li>• Unique, detailed letter which is well-stated, clear and concise</li> <li>• Correctly reflects attached resume</li> <li>• Visually appealing and follows business format</li> <li>• Contains a valid signature</li> </ul>	<b>7-8 Points</b> <ul style="list-style-type: none"> <li>• Properly addressed to a local business</li> <li>• Occasional spelling and/or grammatical errors</li> <li>• Descriptive letter with advanced vocabulary</li> <li>• Often aligns with attached resume</li> <li>• Frequently follows business format</li> <li>• Contains a valid signature</li> </ul>	<b>5-6 Points</b> <ul style="list-style-type: none"> <li>• Attempts to properly address to a local business</li> <li>• Regular spelling and/or grammatical errors</li> <li>• Generic letter with basic vocabulary</li> <li>• Mostly aligns with attached resume</li> <li>• Mostly follows business format</li> <li>• Contains a valid signature</li> </ul>	<b>3-4 Points</b> <ul style="list-style-type: none"> <li>• Improperly addressed</li> <li>• Frequent spelling and/or grammatical errors</li> <li>• Vague letter with elementary vocabulary</li> <li>• Often contradicts attached resume</li> <li>• Makes an attempt to follow business format</li> <li>• Contains a valid signature</li> </ul>	<b>1-2 Points</b> <ul style="list-style-type: none"> <li>• Not addressed to a local business</li> <li>• Constant spelling and/or grammatical errors</li> <li>• Purpose of letter is unclear</li> <li>• Continuously contradicts attached resume</li> <li>• Does not follow business format</li> <li>• Contains no signature</li> </ul>	<b>0 points</b>
Resume		<b>10</b>	<b>9-10 Points</b> <ul style="list-style-type: none"> <li>• No spelling and/or grammatical errors</li> <li>• Visually appealing</li> <li>• Has consistent fonts, titles, spacing and formatting</li> <li>• Logically and chronologically organized</li> <li>• Follows Business Format</li> </ul>	<b>7-8 Points</b> <ul style="list-style-type: none"> <li>• Occasional spelling and/or grammatical errors</li> <li>• Visually appealing</li> <li>• Has nearly consistent fonts, titles, spacing and formatting</li> <li>• Logically but not chronologically organized</li> <li>• Follows Business Format</li> </ul>	<b>5-6 Points</b> <ul style="list-style-type: none"> <li>• Regular spelling and/or grammatical errors</li> <li>• Attempts visual appeal</li> <li>• Attempts consistent fonts, titles, spacing and formatting</li> <li>• Inconsistent logical and chronological organization</li> <li>• Makes An Attempt To Follow Business Format</li> </ul>	<b>3-4 Points</b> <ul style="list-style-type: none"> <li>• Frequent spelling and/or grammatical errors</li> <li>• Lacks visual appeal</li> <li>• Fonts, titles, spacing and formatting are often different</li> <li>• Disorganized</li> <li>• Makes An Attempt To Follow Business Format</li> </ul>	<b>1-2 Points</b> <ul style="list-style-type: none"> <li>• Constant spelling and/or grammatical errors</li> <li>• Lacks visual appeal</li> <li>• Fonts, titles, spacing and formatting are inconsistent</li> <li>• Disorganized</li> <li>• Does Not Follow Business Format</li> </ul>	<b>0 points</b>

Letter of Recommendation	2	2 Points				1 Point	0 points
Supporting Evidence #1	3	<ul style="list-style-type: none"> <li>Supporting evidence includes one photograph.</li> <li>Picture is clear, of high quality and taken in the landscape position</li> <li>The page uses the current state proficiency photo page template</li> </ul>		<ul style="list-style-type: none"> <li>Supporting evidence includes one photograph.</li> <li>Picture is mostly clear and taken in either the landscape or portrait orientation</li> <li>The page uses the current state proficiency photo page template</li> </ul>		<ul style="list-style-type: none"> <li>Supporting evidence includes one photograph.</li> <li>Picture is blurry and difficult to see. It is taken in either the landscape or portrait orientation</li> <li>The page uses the current state proficiency photo page template</li> </ul>	<ul style="list-style-type: none"> <li>Supporting Evidence includes more than one photograph</li> <li>The current State Proficiency photo page is not used</li> </ul>
Supporting Evidence #2	3	<ul style="list-style-type: none"> <li>Contains a well written description less than 500-characters which contains no spelling and/or grammatical errors and uses technical, advanced vocabulary to describe what is occurring in the photograph</li> </ul>		<ul style="list-style-type: none"> <li>Contains a basic description less than 500-characters which contains regular spelling and/or grammatical errors, and some technical, advanced vocabulary to describe what is occurring in the photograph</li> </ul>		<ul style="list-style-type: none"> <li>Contains a vague description less than 500-characters which contains constant spelling and/or grammatical errors and uses technical, advanced vocabulary to describe what is occurring in the photograph</li> </ul>	
Supporting Evidence #3	3						

**Disqualifications:**



File is sent in a format other than a PDF

One contestant's portfolio is sent in multiple files

**Comments/Recommendations:**

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