TRACK Welding Pre-Apprenticeship Assessment Instructions and Formulas

This exam is designed to assess knowledge of what a student would learn during their first year of a welding apprenticeship.

<u>Instructions</u>

- 1. The proctor shall read the assessment instructions and provide a copy of the TRACK Welding Pre-Apprenticeship Assessment instructions and formulas to each participant prior to administration of the assessment.
- 2. The proctor **shall not** be the teacher of record for the content being assessed.
- 3. The TRACK Welding Pre-Apprenticeship Assessment includes 75 questions. Students will have a maximum of three (3) hours, during a single session, to complete the assessment.
- 4. TRACK Welding Assessment accommodations <u>shall</u> be provided in accordance with the student's documented Individual Education Program (IEP), 504 Plan or PSP. The TRACK Welding assessments <u>shall</u> be administered in compliance with the 703 KAR 5:080 Administration Code for Kentucky's Educational Assessment Program, 703 KAR 5:070 Inclusion of Special Populations regulations and the TRACK Welding Pre-Apprenticeship Assessment Instructions and Formula Sheet.
- 5. Students <u>may</u> use State approved calculators on the TRACK Welding Pre-Apprenticeship Assessment. A basic calculator is also available in the online testing system.
- 6. Students <u>may</u> use the geometric formulas provided on the following page. You may be required to use more than one formula to work a problem. It is assumed that you have some of the basic geometric formulas memorized, so they are not provided.
- 7. Students <u>may</u> use blank scratch paper to work a problem. All scratch paper <u>shall</u> be collected and destroyed by the test administrator immediately following the test.
- 8. Students <u>shall not</u> use textbooks, reference materials, smartphones, or other aids (including electronic) not specifically approved in these instructions. Prohibited devices should be collected and securely stored away from the testing area.
- 9. Test materials **shall not** be duplicated in any way.
- 10. Test materials shall not be saved to any hard drive, network drive, or any other data device.
- 11. Student test accounts **shall not** be accessed by any person other than the student whose name appears on the test ticket.
- 12. Students must read each question and all answer choices before selecting the **best** answer.

to pass this assessment.	r nigner (correctly answering a m	inimum of 53 out of 75 c	luestions)

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Formula Sheet

Pythagorean Theorem

$$A^2 + B^2 = C^2$$

$$C^2 - B^2 = A^2$$

$$\pi = 3.14$$

Circumference of a circle = π * diameter

Area of a circle = π * radius²

Area of a rectangle = length * width

Area of a triangle = ½ base * height

Volume of cylinder = π * radius² * height

Volume of rectangular prism (box) = length * width * height

Volume of triangular prism = ½ base * width * height

Volume of a cone = π * radius² * height ÷ 3

Volume of a sphere = $V = 4/3 \pi r^3$

Conversions

inches to mm: 1 inch = 25.4 mm, multiply the length in inches by 25.4

inches to cm: 1 inch = 2.54 cm, multiply the length in inches by 2.54

mm to inches: 1 mm = .0393707 inch, divide the value in mm by 25.4

cm to inches: 1 inch = 2.54 cm, divide the value in cm by 2.54