

## **Preparing for the Apprentice Test**

## What you need to know

- Addition: whole numbers, decimals
  Subtraction: whole numbers, decimals, fractions
  Multiplication: whole numbers, decimals, fractions
  Division: whole numbers, decimals, fractions
- 2. Able to find percentages
- 3. Reduce fractions to lowest terms
- 4. Add, subtract, multiply, and divide feet and inches
- 5. Convert decimals to fractions / fractions to decimals
- 6. Convert fractions of a foot to inches
- 7. Read a ruler

- 8. Know the formula of:
  - Area of triangle, rectangle, circle, cylinder, and parallelogram
  - Volume of a cylinder, cube, and rectangle solid
  - Hypotenuse of a right angle
  - Altitude of a right angle
- 9. Find degrees in angles
- 10. Find square root
- 11. Find perimeter

## Schedule to take the FREE Apprentice Test -

side x side x side or  $S^3$ 

length x width x height

- 1. Call your nearest Training Center (listed below) to schedule test date and time
- 2. A calculator and this formula guide are allowed during the test. No phones allowed.
- 3. Bring a copy of your high school diploma/GED/HSED/ or high school transcript
- 4. A copy of your valid driver's license will be taken when you arrive to take the test

## Formula Guide

<u>Area</u>	<u>Formula</u>	<u>Triangle</u>	<u>Formula</u>
Area of a triangle	<u>base x height</u>	Hypotenuse of a right triangle	square root of $a^2 + b^2$
	2	Altitude of a right triangle	square root of c <sup>2</sup> – b <sup>2</sup>
Area of a rectangle Area of a circle Circular area of cylinder Area of a parallelogram Area of a square	length x width $\pi$ x radius squared $\pi$ x diameter x height base x height side x side	Base of a right triangle	square root of c² – a²
Area of an octagon	4.8284 x S <sup>2</sup>	π (PI) = 3.1416 or 22/7	
<u>Volume</u>	<u>Formula</u>		
Volume of a cylinder	$\pi$ x radius squared x height	Circumference of a circle	diameter x π

Kaukauna Training Center N2218 Bodde Road (920) 766-1515

Volume of a cube

Volume of a rectangle solid

Madison Training Center 5202 Monument Lane (608) 241-0960

Diameter

Rothschild Training Center 1630 County Road XX (715) 335-0800

radius x 2