

Preparing for the Manufacturing Skills Inventory

Please review the information below to prepare for the Skills Inventory.

General Manufacturing:

Basic Ruler Reading: Topics include reading measurements in quarters, halves, eighths, and sixteenths, and reading measurements in millimeters and centimeters.

Shop Math: Topics include adding numbers, converting decimals to fractions, determining dimensions, converting measurements, and working with fractions, order of mathematical operations, calculating the area and perimeter, parts of a circle, volume and the Pythagorean Theorem.

Spatial Reasoning: Measures the participant's ability to view an object in their mind and manipulate it. Topics include folding shapes, merging shapes, stacking blocks and figure comparison.

Welding: If you are interested in welding training, please make sure you are scheduled for a Manufacturing Skills Inventory session that includes the welding assessment. Topics include: welding terms, welding symbols, and welding safety.

Resources:

[GCF Learn Free](http://gcflearnfree.org) (gcflearnfree.org)

Reading Comprehension, Math

[Alison](http://Alison.com) (Alison.com)

Reading Comprehension, Math

[Khan Academy](http://khanacademy.org) (khanacademy.org)

Reading Comprehension, Math, Mechanical Principles

Metrix Learning

Math

Metrix Learning is available through the Metrix Learning Orientation at the American Job Centers in Danielson, Montville and Willimantic.

Barron's Mechanical Aptitude and Spatial Relations Test Book

Available for use at the American Job Centers in Danielson, Montville and Willimantic.

Please check at the front desk.

Additional resources for spatial reasoning – Free apps for tablet/smart phone customers, Rubics Cube, Legos and puzzles help build this skillset.

PLEASE NOTE: The assessments are computer based. Calculators, smart phones/watches, internet searches and cell phones are not allowed. Pencils and scratch paper may be used.