



# Mechanical Aptitude Test

## Assessing Potential and Ensuring Appropriate Placement

In today's market, it's important to know quickly if an external or internal candidate has the basic mechanical aptitude to do the job. Bad decisions have expensive and far-reaching consequences. Utilizing online testing during your employee screening and selection process can help you to identify employees with the best chance to succeed.

NTMA's Mechanical Aptitude Test was developed in consultation with industry experts to assess the understanding of basic mechanical principles, along with the applications of those principles to everyday shop situations. This test is appropriate for candidates that will work in a technical setting on and around manufacturing equipment.

The NTMA Mechanical Aptitude Test is divided into four sections that range from 20-25 questions per, and will take approximately 20-25 minutes to complete each one. The entire test must be completed in one sitting and we strongly recommend that the test be proctored at an employer's or school location.



**Mechanical and Spatial Relations** section assesses the ability to mentally manipulate shapes, figures and patterns. It includes questions that require formation of mental images and visualize movement or change between them, as well as manipulation of shapes in two dimensions or to visualize three-dimensional objects presented as two-dimensional pictures.

**Mechanical Reasoning** section assesses the ability to understand and apply mechanical concepts and principles to solve problems. It includes word problems that explain scenarios that are typical of manufacturing environments and require analysis, as well as some that require interpreting figures and diagrams.

**Applied Mathematics** section assesses the grasp of standard manufacturing mathematical concepts such as basic operations, units, conversions, decimal places, the X-Y coordinate plane, equations, figures, measurements, shapes, angles, trigonometry, relationships, etc.

**Theoretical Reasoning** section assesses logical and deductive reasoning skills through story problems, verbal understanding and comprehension, and overall reasoning ability.

Overall results are provided immediately and can be broken down by section if request. We recommend that potential hires achieve a score of 66% or higher, but each company can set its own standards. The test can also be used to accelerate a new student beyond NTMA-U's first semester.

### Pricing

NTMA Members cost is \$40 per test (\$30 for 10+ tests) / Non-members is for \$150 each.

### Contact Us

Please reach out to Bill Padnos, NTMA Workforce Development Manager, at [bpadnos@ntma.org](mailto:bpadnos@ntma.org) for more information.