



About Mechanical Aptitude Tests

Who is likely to take a mechanical reasoning test?

Mechanical aptitude tests are commonly administered during pre-employment screening for technical and engineering positions. Candidates for these tests come from a wide range of industries: army, medicine, engineering, firefighting, craftsmen, and any job that involves the maintenance, operation, and repair of mechanical equipment. The level of difficulty of these tests varies according to the skills required.

What does the test look like?

A mechanical aptitude test is usually administered on a computer or in paper and pencil form. Each question is usually followed by three or four multiple-choice answers to choose from, of which only one is correct. Since most questions do not require complex calculations, the candidate has approximately 40 seconds per question. Most mechanical reasoning tests introduce basic concepts of Newtonian mechanics and electricity that are covered in the high school physics curriculum. However, unlike in high school physics tests, fewer calculations are required, and they are more about understanding concepts. Here is a list of the most popular subjects that appear in these tests:

Mechanics

1. Forces and motion – acceleration, gravity, friction, pressure, moments, etc.
2. Energy – transformation; kinetic and potential energy; work and power.
3. Simple Machines – levers, pulleys, wheel and axle, inclined planes, gears, springs, screws, and wedges.

Electricity

1. Circuits – in parallel, in series.
2. Voltage, resistance, current, capacitors, and charge.
3. Magnetism

*Besides the above, you may be required to have basic knowledge of tools, units, and terminology.

Mechanical Reasoning Study Guide

Wenbin Ji



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