



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

R Barnett



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when we know one point on the line x_1, y_1 and the slope of the line m and want to find other points on the line have a play
with it move the point try different slopes now let's discover more

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examples example 1 find an equation of the line with a slope of 3 that passes through the point $(2, 4)$ the slope of 3 tells us to
replace the m with 3 the point $(2, 4)$ tells us that $x - 2$

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overview of different forms of a line's equation there are many different ways that you can express the equation of a line
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the point slope form is very useful when you don't have your y intercept it is used to write equations when you only have your
slope and a point point slope form $y - y_1 = m(x - x_1)$ for example your slope m is 3 and your point a, b is $(9, 10)$ you would substitute
your y coordinate for a and your x coordinate for b

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jan 20 2020 how to find $y = mx + b$ with two points find the y intercept given two points use $y - y_1 = m(x - x_1)$ to write the equation of
the line given the point $(4, 5)$ and slope of 6 find y when $x = 24$ so together we are going to learn how to write the equation of a
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dec 17 2022 the point slope form is one such form used with linear equations and is useful when building an equation of a given straight line let's walk through what the point slope form is and learn its use cases with examples

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