

I'm not robot!

Mechanical reasoning tests are designed to assess a candidate's ability to use mechanical and engineering concepts to solve problems. A mechanical reasoning test is an assessment of a candidate's understanding of physical and mechanical principles. Candidates are provided with a range of multiple-choice questions based on principles such as forces, compression, expansion, magnetism, electricity, gravity, gears, springs and levers. Using their knowledge and understanding, a test-taker must correctly select the right answer. For some roles, you may also be expected to make calculations such as basic mathematics (ratios, percentages, averages and fractions), conversions and units, as well as calculating area. A variety of publishers write tests for mechanical reasoning. The most popular are Bennett Test of Mechanical Comprehension, Wiesen Test of Mechanical Aptitude, Barron's Test of Mechanical Aptitude, Stenquist Test of Mechanical Aptitude and SHL Mechanical Comprehension Test. A mechanical reasoning test is used by employers to measure critical thinking, attention to detail and problem-solving skills in the context of mechanical and engineering concepts. The assessment ensures high employee performance and helps identify top talent where mechanical reasoning is needed as a prerequisite for the role. Mechanical Reasoning Test Mechanical reasoning tests are common assessments given for technical jobs such as engineering roles and positions in the emergency services and armed forces. A mechanical reasoning test is likely to cover concepts such as forces, electricity, pressure and sound energy, temperature, fluid dynamics, kinetic energy, momentum, the properties of different materials and heat transfer. The test is particularly useful for employers looking for talented individuals who might be able to solve complex mechanical problems with logical thinking. Try for free 74% of employers admit they've hired the wrong person for a position and up to 78% of resumes are misleading. Skill assessment tests help employers ensure candidates do in fact have the skills needed to perform well in a job. A mechanical reasoning test demonstrates a candidate's ability in core competencies needed for engineering and mechanical based roles, as well as how a test-taker copes under pressure. The test is given to all applicants in your talent pool and provides comparative data, helping you to make more informed hiring decisions. A score is given for each candidate so you can compare and advance only the strongest candidates to the next stage. During the early stages of recruitment, it can also help significantly reduce hiring bias, as the decisions will be data-driven. What does Hooke's law refer to? The acceleration of falling objects The distance a spring stretches when force is applied The change in weight on different planets The effect of gravity on moving objects Results for the Mechanical Reasoning Test along with other assessments the candidate takes will be compiled to produce a candidate report. The report is automatically generated and available both online and as a downloadable pdf so they can be shared with other team members and employees alike. Picked's mechanical reasoning test contains multiple-choice questions that are presented as diagrams. A top-performing candidate will need to determine which mechanical principle is being illustrated and select the one correct answer from the three other distractors. The level of difficulty will vary depending on the position applied for. The tests are also timed, adding additional complexity and pressure for the candidate. The test is approximately 20–30 minutes, which gives a candidate roughly a minute per question. This helps simulate what a real-life work situation might feel like and helps assess how a candidate performs under stress. The multiple-choice questions might reflect specific industry sectors, which mean they will simulate situations a candidate is likely to encounter in the role you have advertised. For civil service roles such as a civil engineer, the mechanical reasoning test is most likely to measure your understanding and skills in applying key principles. For a technical job, you may be expected to make calculations too. Validated Predictor of job success Picked provides evidence-based recommendations for tests to use for over 750 jobs. Our recommendation engine leverages data from the Occupational Information Network (O*NET) developed by the U.S. Department of Labor, Employment and Training Administration (USDOL/ETA). Start Access real assessments Instant access to our full testing suite. All our Mechanical Reasoning tests are written by accredited psychologists and fully validated. We offer Mechanical Reasoning tests for all levels so you can assess all roles within your organisation. Automate Energize selection process Streamline hiring with our out-of-the-box tools. Automated actions such as alerts and reminders ensure a smooth candidate experience. Receive candidate results in real-time so you can make decisions in hours, not days. Hire Make better hires Improve hiring with bias-free, data-driven decisions. Our full array of candidate performance metrics will provide actionable data on each of your candidates. Simple, easy-to-use candidate comparison reports mean you don't need to be a psychologist to interpret them. Try out a Mechanical Reasoning Test. This test was created by our team of assessment experts, made up of I/O psychologists and psychometricians who are dedicated to making all of our tests as reliable, valid and fair as possible. They strictly adhere to best practices in the industry and stay on top of the latest innovations to ensure job candidates' unique profiles of characteristics, abilities and knowledge are being measured accurately while minimising bias. They leverage decades of research and advanced predictive analytics to build assessments that link to outcomes that matter, such as job performance, turnover, engagement, culture fit and more. Can I try the test for free? Yes, you can sign up (no credit card required) and enjoy a 7-day trial completely free. You'll get unlimited access to create as many jobs and test as many candidates as you like. Can I mix the mechanical reasoning test with other tests? Yes, using the Picked platform you can mix and match a variety of different tests to meet your hiring requirements and job specifications. What is the cost for Picked's mechanical reasoning test? Once you've finished your free trial there are a number of flexible pricing plans to suit your company's needs, whether you're a start-up, SME or enterprise business. Read more about our plans here. Which jobs is the mechanical reasoning test relevant for? Mechanical reasoning tests are typically used in roles for the military, police force and fire service, as well as various engineering occupations. The test is relevant to any job that might require prior knowledge of mechanical or engineering concepts. Start building your dream team Try for free The requested URL was not found on this server. Additionally, a 404 Not Found error was encountered while trying to use an ErrorDocument to handle the request. Apache/2.4.41 (Ubuntu) Server at m.central.edu Port 443 The requested URL was not found on this server. Additionally, a 404 Not Found error was encountered while trying to use an ErrorDocument to handle the request. Apache/2.4.41 (Ubuntu) Server at m.central.edu Port 443 What Is Mechanical Reasoning? Mechanical reasoning is the ability to solve problems by using technical skills, physical concepts, and mechanical principles. Someone with a high mechanical aptitude would be able to identify the foundations and the underlying notions of a novel situation to formulate a solution. What is the Wiesen Test of Mechanical Aptitude? The Wiesen Test of Mechanical Aptitude, sometimes abbreviated as WTMA, is an assessment that measures a person's understanding of mechanical concepts. This test is administered to evaluate job seekers interested in positions that require the operation of heavy equipment and machinery. The WTMA is comprised of the following subsets that tediously examine a candidate's mechanical aptitude: Concepts of Basic Machinery Gravity & Centre of Gravity Electricity Heat Structures, Slopes and Planes Movement of Objects Shape & Volume The Wiesen Test of Mechanical Aptitude will also evaluate maintenance and repair of machinery alongside operation. This test gained popularity among employers in mechanical trades because the WTMA measures potential job performance and future growth in candidates. This is accomplished due to the impartial formatting and structure of the test, which reads at a middle school level and can be taken in Spanish as well. There are sixty multiple-choice questions on the assessment. The applicant will have half an hour to complete the test. Each question is accompanied by a diagram which illustrates a mechanical principle or hypothetical scenario. The questions following the diagrams may inquire the shape, size, function, or appearance of physical devices and tools customary to mechanical occupations. How Is the Wiesen Test of Mechanical Aptitude Scored? The Wiesen Test of Mechanical Aptitude is scored two different ways. Applicants will receive a raw score and a percentile score. The raw score simply tells you how many questions out of sixty you answered correctly. The percentile score compares your performance to the performance of others who have taken the WTMA. A raw score and a percentile score will almost always be two unique numbers. It is important to note that most employers will weigh the percentile score more heavily than the raw score. This is because it tells the company that you meet, exceed, or fail to meet their standards. The percentile score is based on a scale from 0-100 and is separated into three categories: High Range: Above the 80th percentile Mid-Range: 25th to 80th percentile Low Range: Below the 25th percentile. The raw score, however, will inform employers of which occupation suits you best. These suggestions will appear in your feedback report. For example, the score you received may tell you that you are better suited to work in a warehouse than to be an electrician. When Will I Take the Wiesen Mechanical Test? The Wiesen Test of Mechanical Aptitude is most likely going to be administered during the hiring process. Job seekers who have successfully completed an initial screening will receive the WTMA via email and be asked to complete it within a specified number of days. After a candidate has completed the assessment, they will be notified within a week or two if they have passed the test. You may also run into the Wiesen Test of Mechanical Aptitude if you are in the process of becoming a vocational student or applying for an apprenticeship. Students will follow the same guidelines as job seekers. Free Practice Questions Example 1: Example 2: Example 3: Answers: Correct answer: B Oil is the correct answer here because it maintains the smoothness of the moving parts. Water and alcohol would evaporate too quickly to be useful for this kind of maintenance. Correct answer: A Path A is the correct path of the planet. This path is symmetric to the one before it (solid line). Path B is not symmetric and Path C suggests that the planet flew off from the orbit, which is not physically possible when under the force of gravity. Correct answer: A Come A has the lower centre of gravity. This is because most of its mass is location near the ground. Tips for the Wiesen Test of Mechanical Aptitude Study the main principles – These are important. Every topic on the test has a law or principle that is used. These mostly include classical physics ideas like gravity, acceleration, heat, as well as electricity. It does not have to be complicated. Just read what the laws mean and it should help you understand how to solve the questions. Study the pictures – The questions on the test usually have pictures that you look at. There can be a difference in the pictures. It is important that you see this difference and know what it means. Think about the law or principle for the problem and think about the difference. You should be able to answer the question from there. Answer every question – You do not get penalized for missing a question or marking an incorrect answer. Just like on many other tests, you should give an answer for each question to increase your chance of a high score. Use practice questions and tests – Take a practice test or some practice questions to help you get familiar with the WTMA. You want to be prepared on the day of the exam. How to Prepare for the Wiesen Test of Mechanical Aptitude? If you have a Wiesen Test of Mechanical Aptitude in your future, there is no need to stress. You can prepare efficiently and successfully by using online practice assessments. These are the best tools for candidates because they familiarise you with both the content and the time limit. By using online practice tests, you can discover the pace that works best for you while still ensuring you are turning in quality work. Additionally, you can study and practice the mechanical concepts, so you are further prepared for the questions. Best of luck! Practice for the Wiesen Test of Mechanical Aptitude

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