

I'm not a robot



Wiesen test of mechanical aptitude

Skip to content Prepare with us - Pass your test - Get the job Try one of our free aptitude tests. Start Free Test We help you choose the right talent. Learn More for Pre-employment Assessments Unlock Your Potential: Ace your employee aptitude test or school entrance exam effortlessly with our tailored online practice tests. Practice with one of our free aptitude tests, or take your preparation to the next level with our comprehensive test preparation packages. Sign up now and start your preparation today. Find the test prep materials suitable for your needs. Select the relevant category below. Boasting over a decade of expertise, we excel in crafting aptitude and ability tests tailored for pre-employment evaluation as well as candidate preparation. Our platform is accessible 24/7, offering seamless use from any computer, tablet, or smartphone. Should you be less than completely satisfied with our test preparation materials, or find you didn't need our assistance, you can request a full refund within 30 days of purchase. Our dedicated team is ready to promptly answer your questions and efficiently solve any problems you may face, ensuring a seamless and supportive experience. Find the test prep materials that match the test you are facing. Select the relevant publisher below. 514 practice questions33 practice tests 1600 practice questions106 practice tests 510 practice questions52 practice tests 900 practice questions90 practice tests 850 practice questions55 practice tests 540 practice questions36 practice tests 1160 practice questions125 practice tests Are you preparing for the Hogan Business Reasoning Inventory (HBRI) and looking for top-quality test preparation materials? Look no further! Aptitude-Test.com is proud to announce that we now offer dedicated practice resources designed to help you excel on the HBRI. Continue reading So, you've got an upcoming MS Office Excel skill test, and you're wondering how to prepare? Don't worry — you're in the right place! Whether the test is for a job application or a certification, knowing how to navigate Excel efficiently can give you a serious edge. Let's break down exactly what you need to do to be ready and confident on test day. Continue reading Wiesen Test for Mechanical Aptitude is a common Mechanical Aptitude test. It is imperative if you want to secure a job and afterward, a career in the heavy machinery and engineering industry. The various job roles that you can get through this aptitude test are those of train drivers, motor mechanics, engineering jobs, armed forces, aircraft engineering and many more. What is the Wiesen Test of Mechanical Aptitude (WTMA) The Wiesen Mechanical Aptitude Test is an aptitude test for individuals who are interested in mechanical or heavy engineering jobs. The entire test is of 30 minutes within which you have to answer 60 multiple choice questions. The test is conducted in both the English and the Spanish language. How does the Wiesen Test work? The Wiesen Test of Mechanical Aptitude as the name suggest, tests your mechanical aptitude and how well you can apply the reasoning skills in real-life scenarios. The test covers a wide variety of topics such as Gears, Center of Gravity, Pulleys, Springs, Levers, Electrical Circuits to name a few. There may be some scenario related problems as well wherein you have to determine the most efficient tool required to complete the said task. How difficult is the Wiesen Test for Mechanical Aptitude? The Wiesen Test has the reading comprehension equivalent to the 6th grade level and the problem figures and scenarios are those of everyday objects and real-life situations. The diagrams present in the Wiesen Test of Mechanical Aptitude example test as well as the real test are simple drawings of everyday objects. These diagrams require you to judge basic working principles such as the transfer of heat, determining the center of gravity, the direction of pulleys and basic methodology of electronic devices to name a few. This helps understand your problem-solving ability in real-life practical situations thereby making you an ideal candidate for the job role offered. Therefore, it is safe to say that overall, the standard of the test is easy, provided you have prepared well enough. How important is the Wiesen Test of Mechanical Aptitude for your evaluation? The WTMA is appropriate for individuals having a minimum of 18 years of age or more. The Wiesen Test of Mechanical Aptitude was designed keeping both the male and the female genders in mind and has also managed to reduce the academic and ethnic bias. As the WTMA is being used by most of the Fortune 250, several government agencies and smaller manufacturing companies, it is a must for you if you wish to secure a job in a reputed company. The WTMA shows high correlation (0.70 to 0.80) with the Bennett Mechanical Comprehension Test (BMCT), the DAT Mechanical Reasoning Test, and various other measures of comprehension and mechanical aptitude. The Wiesen Test of Mechanical Aptitude also shows less adverse impacts on women than the BMCT, which is another leading test preferred by aspirants like you. What is the WTMA passing score? Although the actual passing mark may vary, it is generally advisable that you do well in the mechanical comprehension section as well as the other sections because an overall good score is very much required to ace the test. What kind of knowledge is required from your side to pass the WTMA? Doing your basics right is the key to ace the Wiesen Test of Mechanical Aptitude. You can read various car manuals, the functioning of levers and pulleys, basics of free body diagrams and the center of mass, basics of electronics and machines to get a better understanding of how machines work. Also, you must get comfortable with the pattern of the test to get a better understanding of the questions asked. The test preparation should be done from a variety of sites available online in order to get your basics straight. Wiesen Test of Mechanical Aptitude practice tips There is a variety of Weisen Test of Mechanical Aptitude example test that you can go through to shine your basics and to get acquainted with the format of the exam. This will help you a lot in exams as you will be well aware of the type of questions which you can expect and there won't be any bad surprises that could potentially ruin the examination for you. To sum things up Wiesen Test of Mechanical Aptitude is your key towards getting a job in a respectable company and become a highly productive member of the society. But it is always better to be prepared than sorry, and therefore it is extremely important that you do several Wiesen Test of Mechanical Aptitude example test so that you get the grip of things and as a result your confidence level boosts as well. 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 & Center 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 Cone A has the lower center 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 familiarize 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 The Wiesen Test of Mechanical Aptitude (WTMA) measures a subject's mechanical aptitude, or ability to learn to use and maintain equipment and machinery. It is a 30-minute, 60-item test that can predict performance for occupations involving the operation, maintenance, and servicing of tools, equipment, and machinery. Such occupations either require or are facilitated by mechanical aptitude. The WTMA was specifically developed to improve upon shortcomings of earlier mechanical aptitude tests. Reading level for the WTMA items is estimated to be at the sixth-grade level, and the WTMA is also available in a Spanish-language version. The WTMA's content is designed to minimize gender and racial/ethnic bias, and it has been shown to have lower adverse impact than older mechanical aptitude tests.Score ReportsEach individual is given a raw score and a percentile ranking. The raw score indicates how many questions (out of 60) the individual answered correctly, while the percentile ranking is a relative performance metric that indicates how the individual scored in relation to others who have taken the test. For example, a percentile ranking of 45 means that an individual scored better than 45% of the group on which the test was normed.Which pitcher of water will stay cold longer?Answer: BValidity InformationConstruct Validity: Various studies have shown that the WTMA correlates highly (.70 to .80) with the Bennett Mechanical Comprehension Test (BMCT), the DAT Mechanical Reasoning Test, and other measures of mechanical aptitude and comprehension.Adverse Impact: Four different studies comparing the relative adverse impact of the WTMA and BMCT demonstrate that the WTMA has less adverse impact on women than does the BMCT; the average score difference between men and women across the four studies was 0.31 standard deviation units less for the WTMA than it was for the BMCT.Criterion Related Validity: Research has shown that the WTMA has predictive validity for jobs which require the operation, maintenance, or repair of machinery or mechanical equipment. In a validity study of the WTMA involving 96 carpet manufacturing operators, the validity coefficient was .24 (p < .05), using supervisors' evaluations of productivity as the criterion. Productivity was evaluated using a 20-item performance rating instrument. The validity coefficient for the WTMA was higher than the validity of any of the other four cognitive aptitude tests used in the study.Standardization SampleNorms for the WTMA were established by administering the WTMA to a sample of 1,817 adults aged 18 and older working in industrial occupations. This sample included employees at a utility company, machine operators for a textile manufacturer, custodial workers of a public transportation organization, production workers at a diesel engine manufacturer, maintenance workers for a school district, electricians, and other industrial workers. Using this sample, it was determined that the WTMA has very high reliability (.97).*The WTMA is available for all geographies except Asia-Pacific.Languages Offered:English (US) - DefaultCzechEnglish (UK)French (Canadian)French (France)GermanItalianPolishSlovakSpanish (Castilian)Spanish (Latin American)Learn About Pricing Mechanical reasoning test The Wiesen Test of Mechanical Aptitude (WTMA) is among the most popular mechanical reasoning tests and is considered very reliable.[1] The WTMA is a 30 minute, sixty-question test used to measure mechanical aptitude. It is used for employment testing of job applicants and to help select vocational education students. The WTMA assesses broad physical and mechanical concepts as well as one's ability to operate, maintain, and repair machinery. It is designed to assist employers in selecting candidates for employment, vocational students, and academic research. Additionally, it was designed to reduce gender, racial, and academic bias.[1] As in many standardized tests, the WTMA uses a multiple-choice format for its test questions. Each question contains a line drawing and a brief question together with three possible answers. Sample questions are available online. The questions on the Wiesen test, which are written at a sixth-grade reading level, do not require familiarity with objects encountered in specific events. Each question uses diagrams to illustrate mechanical principles. The questions found on the test are about the function, size, shape, appearance, and weight of common physical devices and tools.[1] The WTMA is used to assess the following:[1] Concepts of basic machinery Movement of objects Gravity/center of gravity Heat conduction Basic electricity/electronics Basic physical properties of matter and materials According to some reviews, the WTMA is the newest of mechanical aptitude tests[2] and shows promise of being more fair to women than other such tests.[3] ^ a b c d "Preparation for Wiesen's Test of Mechanical Aptitude (WTMA)". JobTestPrep. Retrieved 6 December 2016. ^ Hersen, Michel (2004). "Review of mechanical aptitude and spatial ability tests". Comprehensive Handbook of Psychological Assessment: Industrial and Organizational Assessment. 4. ISBN 978-0-471-41614-2. ^ Enger, John; Plake, B. S.; Impara, J. C. (2001). "Review of the Wiesen Test of Mechanical Aptitude". The Fourteenth Mental Measurements Yearbook. The Buros Institute web. Lincoln, NE. Retrieved from " Share — copy and redistribute the material in any medium or format for any purpose, even commercially. Adapt — remix, transform, and build upon the material for any purpose, even commercially. The licensor cannot revoke these freedoms as long as you follow the license terms. Attribution — You must give appropriate credit , provide a link to the license, and indicate if changes were made . You may do so in any reasonable manner, but not in any way that suggests the licensor endorses you or your use. ShareAlike — If you remix, transform, or build upon the material, you must distribute your contributions under the same license as the original. No additional restrictions — You may not apply legal terms or technological measures that legally restrict others from doing anything the license permits. You do not have to comply with the license for elements of the material in the public domain or where your use is permitted by an applicable exception or limitation. No warranties are given. The license may not give you all of the permissions necessary for your intended use. For example, other rights such as publicity, privacy, or moral rights may limit how you use the material. There are several mechanical comprehension tests, made by different publishers. Each of these tests has their own characteristics and uses. Well-known mechanical comprehension tests are: Bennett Test of Mechanical Comprehension: The Bennett Test of Mechanical Comprehension (BMCT) by TalentLens is a widely used mechanical test that requires candidates to respond to questions associated with a series of illustrations showing a particular mechanical principle in operation. The BMCT focuses on practical problem-solving skills and measures a complex set of abilities composed of three primary facets or constructs, being mechanical information, spatial visualization, and mechanical reasoning and understanding. The Bennett Mechanical test is used in a wide range of occupations, such as automotive mechanic, machine operators, aircraft/ship mechanics, industrial/technical sales representatives and other installation, maintenance and repair fields of work. For more information click here. Barron's Test of Mechanical Aptitude: Barron's Test of Mechanical Aptitude has its origins in the armed services. It is used to measure the mechanical reasoning ability of candidate's and is available in computerized as well as pencil and paper form. For more information click here. Stenquist Test of Mechanical Aptitude: The Stenquist Test of Mechanical Aptitude is a slight variation from the standard mechanical comprehension aptitude tests, such as Bennett and Wiesen. The Stenquist test consists of a series of problems presented in the form of illustrations. Based on these provided illustrations candidate's are required to determine which illustration fits in with another group of illustrations. Even though this is a different way of measuring mechanical comprehension, it still measures the same skills as the other tests. US Department of Defence Test of Mechanical Aptitude: This mechanical comprehension test is one of the most widely used mechanical tests in the world and is a subtest of the Armed Services Vocational Aptitude Battery (ASVAB). The ASVAB mechanical comprehension test is a part of the computerized CAT version of the test as well as the pencil and paper test. This test is designed to measure knowledge of mechanics and machinery. The computerized version is 20 minutes long and has 16 questions. The paper version of the test is 19 minutes long and has 25 questions. For more information click here. CEB Mechanical Comprehension Test: The CEB Mechanical Comprehension Test is a widely-used test that is designed to assess a candidate's ability to understand basic mechanical principles and their application to devices such as gear, levers and miscellaneous machinery. This test is used for job positions that require an understanding of mechanical principles and their application, but also the usage of equipment, hardware, and machinery. The CEB Mechanical Comprehension Test is used in a wide range of industry sectors, such as engineering, maintenance, manufacturing, construction, and transportation. This test is 10 minutes long and has 15 questions. For more information click here.