**PSY640 CHECKLIST FOR EVALUATING TESTS**

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| **Test Name and Versions** | |
| **Assessment One** | **Assessment Two** |
| **Wonderlic Personnel Test-Revised** | **Bennett Mechanical Comprehension Test** |

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| **Purpose(s) for Administering the Tests** | |
| **Assessment One** | **Assessment Two** |
| **Wonderlic Personnel Test-Revised** | **Bennett Mechanical Comprehension Test** |
| **Characteristic(s) to be Measured by the Tests**  (skill, ability, personality trait) | |
| **Assessment One** | **Assessment Two** |
| **Vocabulary, sentence rearrangement, arithmetic problem solving, logical induction, and interpretation of proverbs.**  **(50 multiple-choice items), its brevity (a 12-minute time limit), and its numerous parallel forms (16 at last count).** | **Automotive mechanics, plumbers, mechanical engineers, trade school applicants**  This **test consists of pictures about which the examinee must answer straightforward questions. The situations depicted emphasize basic mechanical principles that might be encountered in everyday life. For example, a series of belts and flywheels might be depicted, and the examinee would be asked to discern the relative revolutions per minute of two flywheels. The test** |
| **Target Population**  (education, experience level, other background) | |
| **Assessment One** | **Assessment Two** |
| **The education and experience level is measured on how well the sentence rearrangement, arithmetic, problem solving, logical induction and how well the interpreted proverbs. The experience level does not have to be high to take this test. However, it will be difficult for someone who does not use English as his or her first language.** | **The education for a person to take this test is based on their ability to understand mathematics and other hands on vocations.**  **The experience level does not have to be high to take the test, people who are just starting out in the field or what to gain experience in the field can take this test.**  **Background needs to be mechanically inclined, in an aspect of automotive, mechanical engineers, trade schools, and plumbers** |

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| **Test Characteristics** | | |
|  | **Assessment One** | **Assessment Two** |
| 1. **Type** (paper-and-pencil or computer)**:**   **Alternate forms available:** | **This assessment can be given either on a paper and pencil format or on computer.** | **This assessment can be given either on a pencil and paper method or on the computer. Or hands on by putting together a fly wheel or pipe** |
| 1. **Scoring method** (computer or manually)**:** | **Computer would do the scoring method. This gives you the correct scoring without human error** | **Scoring can be done manually or on computer. I would use a computer format so there is not any error with manually scoring the tests** |
| 1. **Technical considerations:** 2. **Reliability: *r* =** 3. **Validity: *r* =** 4. **Reference/norm group:** 5. **Test fairness evidence:** 6. **Adverse impact evidence:** 7. **Applicability** (indicate any special groups)**:** | **(r = .92)**  **Validity: R= 90.**  **Normative data on hundreds of adults in various occupation**  **The adverse impact evidence is the test is hard for people who does not speak English as their first language.**  **Special groups indicated are the mental ill** | **Split-half reliability coefficients range from the .80s to the low .90s.**  **Normative data there is many of adults who have taken this assessment.**  **The adverse impact of this test is, the test is out dated and needs to be revised. The test is can be considered offensive to some test takers.** |
| 1. **Administration considerations:** | **Needs to be in an area were the computer is able to be used.** | **Needs to be in and area were the test taker has the ability to perform hands on tasks and use a pencil and paper format** |
| 1. **Administration time:** | **This is a fast passed test and which will take an hour or longer and need time to look over all of the results** | **This test is not as fast passed, as the other, so more time needs to be taken into consideration when given the test.**  **The administrator needs to have additional time to look over all of the tests.**  **This tests may also need to be completed in two days** |
| 1. **Materials needed** (include start-up, operational, and scoring costs)**:** | **The start-up needs to include computers and scoring costs, plus will need money to purchase the program** | **Startup needs to include the equipment for hands on tasks. Also, need to have additional money to support staff.** |
| 1. **Facilities needed:** | **A lecture hall or room big enough to test ten to twenty people with computer accessibility.** | **Need to have an area where the test taker is able to perform hands on testing and pencil and paper testing.** |
| 1. **Staffing requirements:** | **Need to have one to two people to administer the test and monitor the test takers. Will also need a psychologist to review the test and make assessments.** | **There needs to be staff to administer the test by monitoring the hands on and the pencil and paper test. Also, need a psychologist to review the tests.** |
| 1. **Training requirements:** | **Make sure the test administrators understand how to administrate the test and how to handle any computers which may have a problem or the test takers have any problems.**  **The psychologist who is reviewing the test needs to understand how to assess the tests given** | **Make sure the test administrators need to be trained on how to give the test and how to handle any questions from the test takers.**  **The psychologist who is reviewing the test needs to understand how to assess the test given.** |
| 1. **Other considerations** (consider clarity, comprehensiveness, and utility)**:** | **The test takers need to be clear on what the test is assessing and comprehend what they are being asked to do.** | **The test takers need to make sure they are clear about what they are being assessed and comprehend what they are being asked to do.** |
| 1. **Test manual information:** | **N/A** | **N/A** |
| 1. **Supporting documents available from the publisher:** |  |  |
| 1. **Publisher assistance:** |  |  |
| 1. **Independent reviews:** |  |  |

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| **Overall Evaluation**  (One to two sentences providing your conclusions about the test you evaluated) | |
| **Assessment One** | **Assessment Two** |
| **Name of Test:**  **Wonderlic Personnel Test-Revised**    **This test evaluate the intelligence of the person taking the test. This test is helpful to see how someone is able to problem solve.** | **Name of Test: Bennett Mechanical Comprehension Test.**  **This test is useful to see how mechanically inclined someone is. This test will help In placing someone in the right trade.** |

**References**

**List references in APA format as outlined by the Ashford Writing Center.**

**De Kock, F. S., Lievens, F., & Born, M. P. (2015). An in-depth look at dispositional reasoning and interviewer accuracy. *Human Performance*, *28*(3), 199-221. doi:10.1080/08959285.2015.1021046**

**Gregory, R. J. (2014). *[Psychological testing: History, principles, and applications](https://ashford.instructure.com/courses/2490/external_tools/retrieve?display=borderless&url=https%3A%2F%2Fcontent.ashford.edu%2Flti%3Fbookcode%3DGregory.8055.17.1" \o "Psychological testing: History, principles, and applications" \t "_blank)*(7th Ed.). Boston, MA: Pearson.**

**Klenk, M., Forbus, K., Tomai, E., & Kim, H. (2011). Using analogical model formulation with sketches to solve Bennett Mechanical Comprehension Test problems. *Journal of Experimental & Theoretical Artificial Intelligence*, *23*(3), 299-327. doi:10.1080/0952813X.2010.502312**