XCriteria Case Study

INDUSTRY Manufacturing

COMPANY SIZE 1,000+ Employees

OBJECTIVE Incorporate assessments while minimizing adverse impact

SOLUTION CBST Criteria Basic Skills Test

WTMA

Wiesen Test of Mechanical Aptitude

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RESULTS More diverse, higher performing workforce

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Manufacturing Company Hires More Diverse, Higher Performing Workforce

Challenge

A major manufacturing company wanted to use pre-employment assessments in the hiring process to make better hiring decisions and to ultimately improve quality of hire. However, the company was concerned that adding assessments into the hiring process could lead to adverse impact that would make it difficult for the organization to achieve its goal of hiring a diverse workforce.

The company was particularly interested in ensuring that the assessments would not lead to adverse impact against female and minority applicants. The ultimate goal was to validate that any assessments used would be able to successfully predict job performance without adverse impact, making it possible to hire a workforce that is both more diverse and higher performing.

Solution

The company partnered with Criteria to perform a study that would examine the ability for Criteria's assessments to predict job performance while minimizing adverse impact for any subgroups. Two assessments were included in the study:

The Criteria Basic Skills Test (CBST): An assessment that measures job readiness and trainability through basic math, verbal, and communication skills.

The Wiesen Test of Mechanical Aptitude (WTMA): An assessment that measures mechanical aptitude, or the ability to learn to use and maintain equipment or machinery. While some mechanical aptitude tests have historically led to adverse impact against female applicants, the WTMA was designed with particular care to minimize adverse impact between groups.

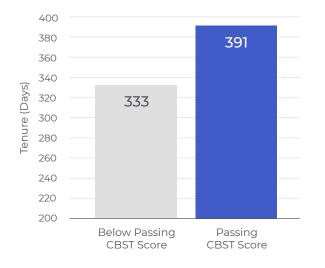
The manufacturer administered the two assessments to 519 of its existing machine operators and 136 of its distribution employees. The employees' assessment results were then compared with several performance criteria that the company defined, including Average Tenure, Termination Rate, Disciplinary Action, and more.

Results

The organization found that the two assessments were able to predict job performance without adverse impact between major subgroups, including sex, race, and age.

Criteria Basic Skills Test (CBST)

For machine operators, employees who passed the Criteria Basic Skills Test (CBST) accrued 17% greater tenure at the company than those who did not.



Average Tenure by CBST Score Range

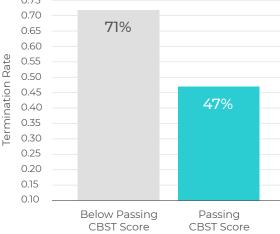
They were also 20% less likely to be voluntarily terminated, 6% less likely to be terminated, and had 5% fewer recorded absences.

0.75 0.70

The results for distribution employees was even

more dramatic. Those who passed the CBST were

53% less likely to turnover than those who did not



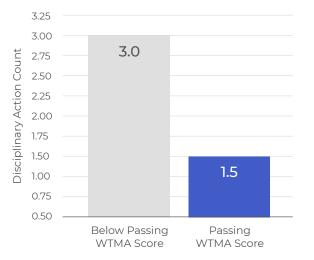
They were also 88% less likely to be involuntarily terminated, 43% less likely to receive disciplinary action, had 16% fewer recorded absences, and they also had 80% higher average tenure.



Wiesen Test of Mechanical Aptitude (WTMA)

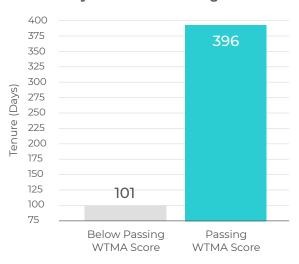
Machine operators who passed the WTMA accrued 2x fewer disciplinary actions on average than those who did not pass the test.

Average Disciplinary Action Count by WTMA Score Range



They were also 33% less likely to be voluntarily terminated and had 8% fewer recorded absences.

Distribution employees who passed the WTMA accrued almost 4x greater tenure on average than those who did not pass the test.



Termination Rate by WTMA Score Range

They also were 108% less likely to be terminated for any reason and 38% less likely to receive disciplinary actions.

In summary, both assessments were able to successfully predict employee tenure, disciplinary actions, terminations, and attendance on the job. The study also found that subgroup pass rates for both assessments provided no evidence of adverse impact. As a result, the organization was able to use the assessments to make more objective hiring decisions in support of its goal to hire and retain a more diverse team.

