ErgoPlus

What-if Analysis

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Use Assessment Tool Data to Guide Improvement Design

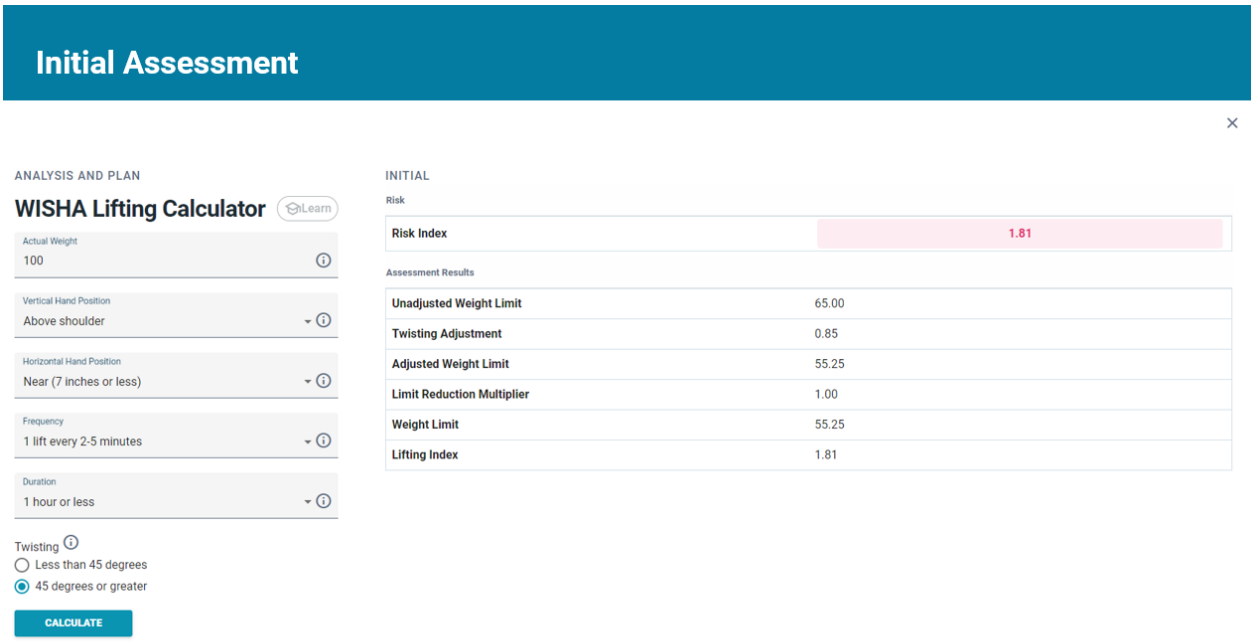
Use Assessment Tool Data to Guide Improvement Design

What-if Analysis is a powerful tool that uses ergonomic assessment tool data to guide ergonomic design. The goal of the improvement planning process is to plan an improvement that gets the task within an acceptance risk threshold. The what-if analysis tool ensures you can do just that.

You can ask questions like, what would the risk index be if we could reduce the weight of the object by 10 pounds? What if we could reduce the horizontal location by 8 inches? What if we could improve upper arm posture by 20˚?

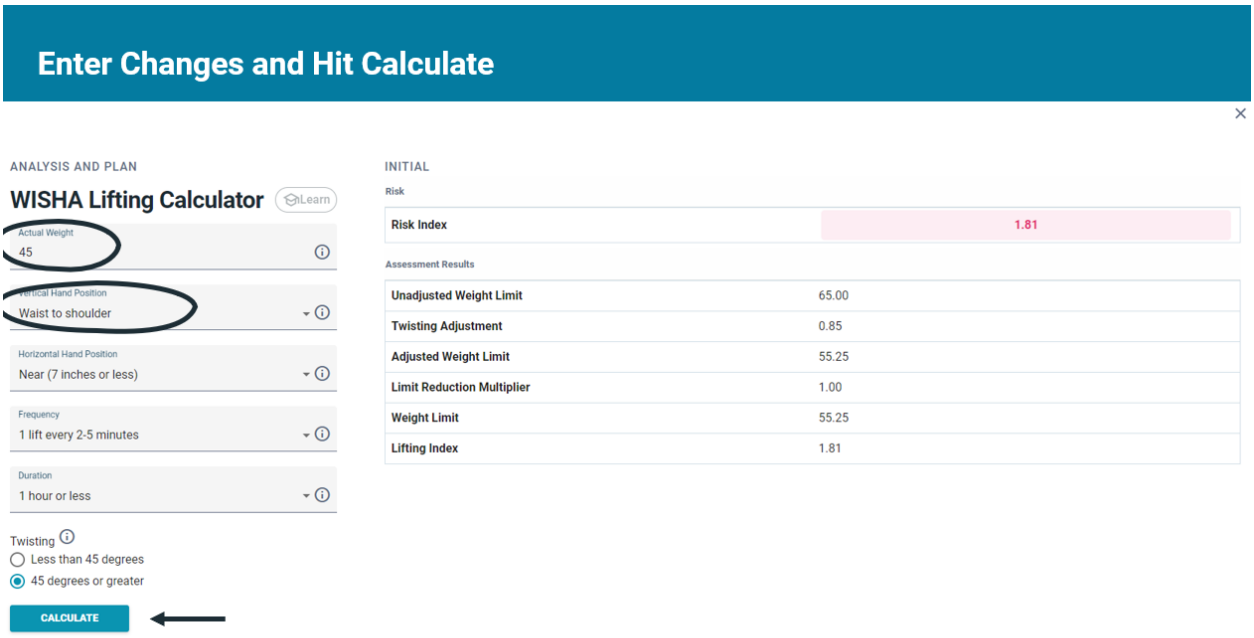
By using assessment tool data to guide your design, you can know in advance whether an improvement will be effective at reducing risk or not.

Initial Assessment



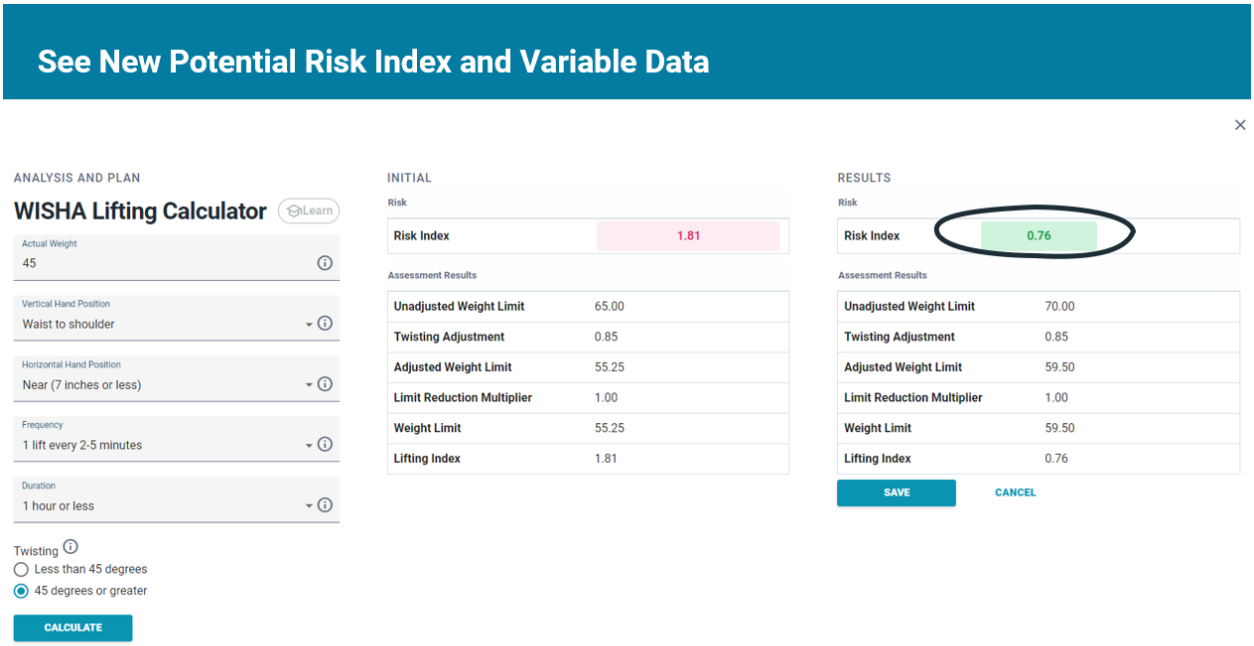
When you open the what-if analysis tool, you will see the inputs and outputs of the initial assessment.

Enter Changes and Hit Calculate



To use the tool, make a change to the inputs and hit calculate. In this case, we'll reduce the weight to 45 pounds and move the vertical hand position to "Waist to shoulder" and hit calculate.

See New Potential Risk Index and Variable Data



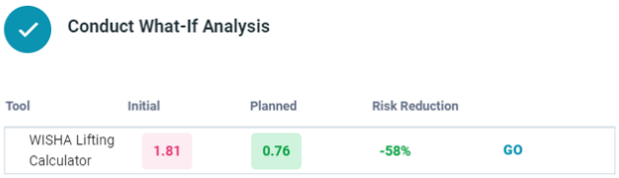
After the calculations run, you can see exactly how your changes would impact the Risk Index as well as specific tool variables. At this point, you can continue making changes to the inputs. Each time you hit calculate, new results will display so you can see how the changes would impact the score.

After you're done making changes, you can click save and that will save down the new inputs as your planned improvement.

Save as Planned Improvement

Save as Planned Improvement

- You can save the What-If Analysis results as your planned improvement
- You can always come back and edit later if improvement plans change



Once you have your planned improvement saved, you can always come back later and make edits if your improvement plans change.