

## Introduction

In the Decision Making with Data module, you learn basic methods for drawing inferences from sample data.

You learn about using interval estimates to estimate population parameters, such as confidence intervals for a mean, tolerance intervals, and prediction intervals.

You explore some key concepts behind statistical testing, such as p-values, statistical significance, and practical significance.

You learn about hypothesis tests for continuous data, including one-sample t tests, paired t tests, two-sample t tests, and one-way analysis of variance (ANOVA). You also learn about equivalence tests, multiple comparison procedures, analysis of means (ANOM) and tests for unequal variances.

Finally, you learn the role that sample size plays in the precision of your interval estimates and the power of your statistical tests.

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*Statistical Thinking for Industrial Problem Solving*

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