This page provides information on performing a capability analysis using the Distribution and Control Chart platforms. Capability analysis for multiple process measures can also be performed in the Process Capability platform under Analyze > Quality and Process.

**Capability Analysis – Distribution Platform**

1. From an open JMP® data table, select Analyze > Distribution.
2. Select one or more continuous variables from Select Columns (continuous variables have blue triangles), click Y, Columns, and click OK to generate a histogram and summary statistics.
3. From the red triangle for the variable, select Capability Analysis.
4. Enter the spec limits and target.
   - Specify the distribution (if the underlying distribution is not normal), and select the estimate(s) to use for sigma. Note: If moving range and/or fixed subgroup size are selected, data must be sorted in time order.
5. Click OK to perform a capability analysis for each estimate of sigma selected.

**Capability Analysis – From a Control Chart**

1. Generate an IR or XBar control chart using Analyze > Quality and Process > Control Chart.
2. Select Capability from the top red triangle.
3. Enter the spec limits and target and click OK.
   - By default, the following will be added to the output:
     - A histogram, with spec limits and a normal quantile plot.
     - The observed (actual) capability.
     - Capability analyses based on short and long term estimates of the standard deviation.

Notes: Long term (Ppk) capability labeling can be turned on using the JMP Preferences (under Preferences > Platforms > Capability). For information on creating control charts, see the one-page guides for control charts at jmp.com/learn. For additional details, see the book Quality and Process Methods (under Help > Books) or search for “capability” in the JMP Help.