

Six Sigma Project Requirements

Both black belts and green belts must follow and document the thirteen-step Define-Measure-Analyze-Improve (DMAIC) process. Black belts must use the black belt project charter. Green belts must use the green belt project charter. Black belts must use MINITAB software where indicated below.

Charters are to be submitted upon completion of the project with all pertinent records attached.

The following improvement tools must be used. Justifications must be submitted for omitting any of the required tools.

Improvement Tool	Green Belt	Black Belt
Brainstorming/ list reduction	X	X
Cause and effect diagram	X	X
Cause and effect matrix	X	X
Control charts	X	X*
Correlation	X	X*
Descriptive statistics	X	X*
Design of experiments		X*
Error proofing	X	X
Failure mode effects analysis		X
Families of variation	X	X
Gage R&R and Attribute agreement analysis	X	X*
Histogram	X	X
Hypothesis testing		X*
Pareto chart	X	X
Potential "X" matrix	X	X
Process capability	X	X*
Process maps	X	X
Regression		X*
Supplier-input-process-output-customer matrix (SIPOC)	X	X

* Must use MINITAB software

Visit www.mep.purdue.edu/jobseeker for more details.