

Level 4: LSSBB

A Lean Six Sigma Black Belt is a senior level certification that requires a high level of expertise in the Lean Six Sigma methodology and tools. Here are the knowledge elements that are required for a Lean Six Sigma Black Belt:

1. **Advanced statistical analysis:** Black Belt holders should have a deep mastery of advanced statistical analysis, including multivariate analysis, reliability analysis, and non-parametric statistics.
2. **Mastery of DMAIC methodology:** Black Belt holders should be able to lead DMAIC projects in complex environments and apply advanced statistical techniques to data analysis.
3. **Advanced process mapping and analysis:** Black Belt holders should have a deep understanding of process mapping and analysis, including complex value stream mapping, process flow analysis, and root cause analysis.
4. **Ability to coach and mentor:** Black Belt holders should have the ability to coach and mentor Green Belts and other team members, and effectively communicate the benefits of the Lean Six Sigma methodology to stakeholders.
5. **Advanced Lean principles:** Black Belt holders should have a deep understanding of advanced Lean principles and techniques.
6. **Mastery of change management:** Black Belt holders should have a deep mastery of change management techniques, including leading change initiatives and managing resistance to change.
7. **Strong leadership and project management skills:** Black Belt holders should have strong leadership and project management skills, including the ability to manage complex projects and multiple project teams.
8. **Business strategy and financial management:** Black Belt holders should have a deep understanding of business strategy and financial management and be able to align process improvement initiatives with organizational goals.
9. **Innovation and creativity:** Black Belt holders should be able to think creatively and develop innovative solutions to complex problems and be able to implement new technologies and processes.

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A Lean Six Sigma Black Belt holder should have a deep mastery of the Lean Six Sigma methodology and tools, as well as advanced statistical analysis, process mapping and analysis, change management techniques, and leadership and project management skills. They should be able to coach and mentor Green Belts and other team members, communicate effectively with stakeholders, and align process improvement initiatives with organizational goals. They should also be able to think creatively and develop innovative solutions to complex problems and be able to implement new technologies and processes.

**Unless otherwise requested, this course is taught with the Value Added 616 body of knowledge that follows the gold standard of [WikiBoK](#).*

***Value Added 616 is an approved Training Partner of IASSC through PeopleCert. Upon request we can train you using IASSC curriculum so that you can sit for their exam.*