

Six sigma black belt training conversion

Transforming goals into results

How long does it take?

2 modules of 5 days divided by about a month.

What are the benefits?

Delegates will find this a rejuvenating experience, adding new impetus to their capabilities. Upon successful completion of the programme and project, delegates will be able to use a range of powerful additional tools.

Who should attend?

Those who want to take their qualifications up to the next level.

Highly motivated individuals working in improvement.

Graduates of PMI mastering process improvement (500 series) or PMI six sigma green belt.

Those who are confident in working with complex numbers and statistics.

How can I do it?

As an in-house programme in your company/organisation.

As part of our public training programme in the Midlands or London.

Overview

PMI six sigma black belt conversion is a development process for practising graduates of PMI green belt or mastering process improvement (500 series) programmes. This powerful course develops the specialist six sigma and statistical skills to operate at the forefront of the six sigma deployment environment. Consisting of 10 days classroom work over two months, the coursework is integrated with a project to embed the learning and ensure payback on the investment.

Many hundreds of graduates of PMI's mastering process improvement programme (500 series) and PMI six sigma green belt have demonstrated to themselves and their employers the value of systematic variability reduction. PMI six sigma black belt takes the toolset further, giving deployment much higher profile, ensuring that efforts are applied to critical problems and strategic issues, and developing a programme management and support structure. Financial justifications are more rigorous, and close tracking by finance departments has reported gains running into many millions.

Six sigma projects

Improvement projects are the engines of six sigma programmes. They should be selected by the steering team as a result of analysis of the whole system, in the context of the strategic goals and current vital issues. Their successful implementation is a critical part of achieving the business case. Champions are identified for each six sigma project and they lead the selection of the project team and the black belt. The champion oversees the implementation of the six sigma project under its leader, helping the leader to overcome organisational barriers and keeping open the communication with the steering team and other projects.





"I really do believe that a company will get a tremendous return on their investment by sending their employees on a public black belt conversion course with PMI"

Content

- introduction to six sigma, recap learning from 500 series and experience since
- the roles of black belts and other key players in the six-sigma programme
- process improvement learning cycles and other models to support improvement projects. (PDSA, DMAIC)
- six sigma metrics include defects per million opportunities
- system view of the business
- ensuring project engagement and avoidance of pitfalls of change challenges
- executive and champion reviews
- SIPOC and flowcharting
- cycle time measurement and reduction
- additional control charting techniques:
 - p, np, c, u
 - charts for processes with trends
- strategies to deal with short run SPC
- introduction to Minitab.
- further measurement systems understanding
- advanced statistical measures such as chi-squared, T-tests, ANOVA, regression analysis and associated tools to investigate and verify causes of variation
- solution generation tools including Triz
- introduction to design of experiments, a methodology for the detailed investigation of process variation:
 - DoE – fractional factorial
 - DoE – full factorial
 - DoE – optimising solutions
- development of places for process improvement, including plans for action, implementation and communication
- FMEA used to develop robust solutions
- investigation and refinement of project solutions through solution testing and results studies, and the mistake proofing of projects
- the place of process standardisation at the start and end of the improvement cycle
- consequences of full-scale implementation and tools for successful roll-out including standardisation of learning
- additional tools to support successful projects - force field, ladder of inference, etc.
- project and process management

The black belt conversion programme consists of 2 x 5 days classroom based training. In addition there is a written examination and review day which delegates must take part in. A documented improvement project must be submitted and accepted by our examiners in order to be accredited

Contact us for more information on our full range of six sigma programmes or to book your place:
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