

# Six Sigma Black Belt Training

Take the lead in fact based decision making on all your projects

## Purpose of the course

The participants of this program will be trained to become professional Black Belts. They will become the people who execute projects according to the Six Sigma methodology. They will coach and train others in the organization to follow the same methodology. They will be trained to act as change agents in your organization to deploy the methodology. To increase the effectiveness of learning the Six Sigma methodologies and related tools, the participants will execute their first project simultaneously with the course. The project must have a substantial benefit to the organization, multiple times the investment of this training program.

In order to cope with the latest economic situation, organizations must develop new products, processes and services, and preferably this should be done right the first time. Next to the many renewal actions in today's business environment, the turbulent market conditions make it clear that existing processes sometimes need a radical change and ask to be demolished and redesigned from the bottom-up. This means that next to the Lean DMAIC aspects, the program has an unique strong focus on Design for Six Sigma (DFSS) and Product Reliability.

## Target group

The Six Sigma Black Belt course focuses at people within a company involved in managing projects to develop new products, processes or services, but also on improving existing projects, processes or services.

The program is also suitable for both technical staff and non-technical staff involved in transactional processes, as long as affinity for data based decision taking, supported by statistics, is within the sphere of interest. Personal involvement in projects is a prerequisite.

## Work and thinking level / experience level

Academic or HBO level

**Course duration: 4 x 4 days**

**Max number of students: 16**

## What will be learned – the skills

During the course the steps in DMAIC and IDOV methodologies will be explained. Uniquely we will also address RELIABILITY: product reliability during the life time of the product. A special model is developed explaining how DFSS can be integrated in your business process. Presentations will be alternated with case studies and exercises. Further attention is paid to statistical techniques, which will be taught using the statistical software program Minitab.

Another important aspect of the Six Sigma approach is the development of the required social skills in order to execute projects well. Successful projects are led by well-educated Black Belts. Their success is determined by their capabilities to strategically lead their projects.

## Cooperation

Holland Innovative organizes in cooperation with IBIS UvA this Six Sigma Black Belt course. IBIS UvA is the Institute for Business and Industrial Statistics, connected to the University of Amsterdam. It is the centre of knowledge in the area of Six Sigma in the Netherlands. Both IBIS UvA and Holland Innovative gained a lot of experience in Six Sigma over the last few years, applying the methodology to leading Dutch and international corporations. Their gained experience has resulted in the development of a certified Six Sigma Black belt course, in which many case studies will be discussed. The course will mainly be taught by teachers from IBIS UvA, who also take responsibility for the quality level of the course.

## University Certification

Participants who finish the 16-days course and take the accompanying theoretical exam and finish two projects successfully according the Six Sigma methodologies will be certified by the University of Amsterdam as Six Sigma Black Belt. Projects must be approved by the University of Amsterdam.



## Course content

The course is split up in four blocks. Each Block has four course days, followed by a 2 – 3 week break during which the participants can further study the presented material and have the time to apply it to their own projects. The blocks are daily from 09:00 - ~19:00 hours, followed by a dinner at the Grand Café on the High Tech Campus. The time from 17:00 – 19:00 hours will be used to discuss and review the running projects. The last day of each block will end approximately 16:30 hours.

## Number of participants

Due to the nature of the course the minimum number of participants is 10 and the maximum is 16. Admission is in order of entry of signed subscription forms.

## What to bring to the course?

During the course participants need a laptop installed with MS Excel and the statistical software package Minitab (version 16). A 30-day trial version of this package can be downloaded from the website [www.minitab.com](http://www.minitab.com). In the course room WLAN access is available to access your company Minitab license.

## Teachers

Head teacher and responsible for the content of the course is Dr. J. de Mast of IBIS UvA. Additionally, special contributions will be made by specialists of the Dommel Valley platform, amongst others in the areas of Shainin techniques, FMEA methodology and the MBTI personality type descriptions.

## Dommel Valley Platform

The Dommel Valley Platform is an initiative from Philips Healthcare, Aalberts Industries, University of Amsterdam and Holland Innovative. By now over 10 well known enterprises have become member of the platform. Its goal is sharing knowledge with respect to product design, product quality and product reliability. The platform organizes trainings as well as seminars related to robust design and reliability and thus bringing open innovation into practice.

## Location & Costs

The course location is the training room of Holland Innovative at the High Tech Campus in Eindhoven.

Included in the course price are 16 days of training in Six Sigma methodologies, meeting arrangements, extended course materials, project support on course days from 17:00 – 19:00 hours, daily lunches and dinners at the first three days of each block.

The costs are € 9.950 (ex VAT) per participant. Not included in the course price are the costs for the theoretical exam and certification by the University of Amsterdam (this is optional).

## Subscription

Subscription can be done by filling in the subscription form, which can be ordered via [academy@holland-innovative.nl](mailto:academy@holland-innovative.nl). Subscription is also possible via the web site [www.holland-innovative.nl](http://www.holland-innovative.nl).

## Contacts

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