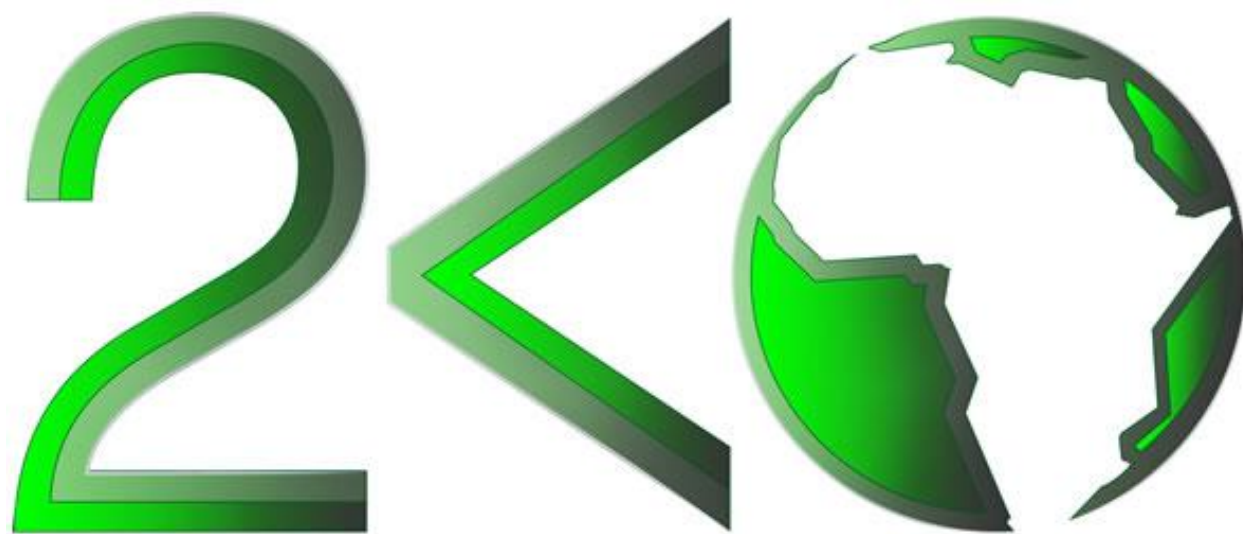




DMAIC Six Sigma Black Belt 2018



Coalition Trading 616

Six Sigma South Africa | 2KO International | DMAIC Six Sigma Black Belt
Contact us on info@2ko.co.za
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<http://www.sixsigmasouthafrica.co.za/>



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2KO International – Six Sigma South Africa is the leading Six Sigma Training provider for many of the largest companies in South Africa, as well as neighboring African countries.

Choosing the correct training provider is crucial in a successful Six Sigma/Lean process. At 2KO International we work closely together with companies to assist them according to their specific training needs.

1. Accreditation

2KO International has achieved both International and local accreditation for our Six Sigma courses. Providing our clients with the peace of mind that our training is of the highest standard.

IASSC Accredited training provider: The International Association for Six Sigma Certification (IASSC) is a Professional Association dedicated to growing and enhancing the standards within the Lean Six Sigma Community.

<http://www.iassc.org/>

Six Sigma Council Registered Training Provider: We are a professional accrediting body within the Six Sigma industry that does not provide training, mentoring, coaching, or consulting services. Our objective is to ensure that Six Sigma Certified individuals have been exposed to the complete Six Sigma Body of Knowledge and have been required to meet a minimum standard of proficiency for Six Sigma and its implementation.

<http://www.sixsigmacouncil.org/>

MICT SETA Accreditation: 2007/01/215

- SAQA Unit standard ID: 110021 | Title: Achieve personal effectiveness in business environment
- SAQA Unit standard ID: 252037 | Title: Build teams to achieve goals and objectives
- SAQA Unit standard ID: 15234 | Title: Apply efficient time management to the work of a department/division/section



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2. Results that your company can expect

- Improved Customer Service Loyalty
- Time Management and efficiency
- Reduced Cycle Time
- Employee Motivation
- Strategic Planning
- Supply Chain Management
- Bottom line cost savings (5%-20% of turnover per annum)
- Improved quality of product or service as perceived by the customer (internal and external customers)
- Development of staff skills
- Common language throughout the organisation
- World class standard
- Creates a competitive edge
- Improve ROI
- Drive sales growth

3. What you can expect

- Improved knowledge and skills
- Ability to use a wide range of tools and techniques
- A status that is recognised world wide

4. Why choose Six Sigma South Africa / 2KO International as your Training Provider?

- 2KO International has prompt response time in addressing the needs of your company
- 2KO International provides 2 sets of certification, once students have successfully completed the training and the project.
- Worldwide, the practice is that Six Sigma/Lean certification is awarded by an institution that employs a certified and qualified Six Sigma/Lean black belt trainer (which is what we do). There is no central certifying body like there is for say Microsoft. For this reason, Six Sigma/lean certification is recognized worldwide provided it came from a certified organization.
- 2KO International provides a flexible training schedule to suit delegates
- 2KO International offers training in Johannesburg, as well as onsite elsewhere in the world
- 2KO International is well-established

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5. Some of the companies we've trained in 2017

- Anglo American
- FNB
- Nedbank
- SCAW
- Vodacom
- Bridgestone
- Truworths
- Landis + Gyr
- Matthey Africa
- Siyaduma Auto Ferriers
- Detpak
- The Biovac Institute
- Momentum
- SekelaXabiso
- Easylife Kitchens
- Torreparts
- KPMG
- Airports
- Natref
- UTi Worldwide
- RB
- Fourier
- And Many More



6. Difference between LEAN and DMAIC

Lean Six Sigma:

Goal: Reduction of waste in all of its forms throughout the operation

Method: Set operation to order using 5S and visual factory; identify where in the material and information flows waste exist and eliminate it.

Measure: Operational costs.

Industry: Manufacturing

DMAIC Six Sigma:

Goal: Reduction of variation in all processes of the operation

Method: Search for differences in performance between groups, within groups, and over time to identify primary contributions of variation; develop additional understanding of multivariate causes by studying relationships between process inputs and outputs; put controls in place to minimize the contribution of input variation on output variation.

Measures: Variance, standard deviation, Process Capability (Cp and Cpk), sigma value, operational costs.

Industry: Process environments



7. Difference between the different belts

Yellow Belt Training:

The most basic level that covers the understanding of the Six Sigma style.

Role: The employee will be part of a project team where he will review process improvements that support the project.

Green Belt Training:

During the course, the delegate will learn the tips and techniques that make for a good Six Sigma execution, and receive fundamental training in Define, Measure, Analyze, Improve and Control.

Role: People with this certification are often referred to as worker bees because they do the majority of the work during projects. They gather the necessary information, experiments and tests throughout the project.

Black Belt Training:

Focus on additional training in deeper analysis tools (think stats) and perhaps even some instruction on change management or stakeholder influence.

Role: These are the people who are in charge of the Six Sigma Projects within their respective companies. Most of the time, these are the people who are asked to take on this task on a full time basis. Along with heading the project, they also are expected to coach, develop and advise other managers so the entire company can achieve this goal. Leads problem-solving projects. Trains and coaches project teams.

Master Black Belt Training:

This is the highest of the Six Sigma belts one can achieve. Focus on Change Management techniques.

Role: The master black belt will make sure everything continues running smoothly and all the training the company learned stays in the company. They are there to execute the practices throughout the company, not just within the project. A Six Sigma master black belt course is all the above, plus will have mentored or coached about 20 or more green belts and black belts, has more developed statistical and analysis skills, plus is well versed in change management

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techniques. Trains and coaches Six Sigma Black Belts and Green Belts. Functions more at the Six Sigma program level by developing key metrics and the strategic direction. Acts as an organization's Six Sigma technologist and internal consultant.

8. DMAIC Six Sigma Black Belt Certification:

The DMAIC Six Sigma Black Belt course provides you with knowledge of the philosophies and principles of Six Sigma. It is a tool that helps you to exhibit teams (leadership, dynamics, responsibilities and roles). The Black Belt provides you with complete understanding of the DMAIC model in according with the Six Sigma principles.

Who Should Attend?

Process engineers and managers, Quality Engineers and managers, Manufacturing/Production engineers and managers etc.

Course Duration: 10 non consecutive days (full time) | On each Friday you write an exam that you need to pass before you can complete the project.

Project durations: maximum of 6 Months

Total Cost: R35 995 per person

Venue: Sandton Lodge Rivonia – Johannesburg

Accreditation:

- **MICT SETA Accreditation:** 2007/01/215

Unit Standards:

- *SAQA Unit standard ID: 110021 | Title: Achieve personal effectiveness in business environment*
- *SAQA Unit standard ID: 252037 | Title: Build teams to achieve goals and objectives*
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been exposed to the complete Six Sigma Body of Knowledge and have been required to meet a minimum standard of proficiency for Six Sigma and its implementation.

<p>Introduction</p> <ul style="list-style-type: none"> • Course Logistics (program layout, expectations, etc.) • Six Sigma Introductory Overview • Project Selection • Process and Financial Metrics • Project Reporting Expectations • PDCA (Plan Do Check Adjust) 	<p>Measurement System Analysis</p> <ul style="list-style-type: none"> • Variable Gage R&R • Attribute Agreement Analysis • Variables Data Capability Analysis • Attribute Agreement Analysis
<p>Project Definition</p> <ul style="list-style-type: none"> • Project Charters • Estimating Financial Metrics • Definition of process outputs (characteristics, defects, defectives) • Process Mapping • Strategic Alignment with Project Selection • Project Selection Facilitation 	<p>Basic Statistics</p> <ul style="list-style-type: none"> • Fundamental Statistical Measures and Control Charts • Common and Special Cause Improvement Strategies • Introduction to Minitab • Quality Tools, Introduction to Hypothesis Testing, 1 proportion Tests and 2 proportion Tests • Chi Square Testing, T Tests, ANOVA, Correlation Analysis, Single Regression • Normality and Distributions • Anderson-Darling Test for Normality
<p>Design of Experiments (DOE)</p> <ul style="list-style-type: none"> • Introduction to Design of Experiments • Non Parametric tests and analysis • General Full Factorial Designs • Two-Level Factorial Designs • Three-Level Factorial Designs • Post-hoc Analysis • Fractional Factorials 	<p>Improve and Control</p> <ul style="list-style-type: none"> • Solution Selection and Prioritization • Pilot Studies (assessing countermeasures) • Final Capability Analysis • Process Controls • Wrap-Up