Exam Format

The exam consists of 2 sections: a *Fundamentals* section and an *Applications* section. The examinee is given 4 hours to complete each section of the exam. The *Fundamentals* section is design to test the examinee's understanding of basic statistical methods. The questions can be answered in less than 2 minutes if the examinee understands the principles of the question. The *Fundamentals* section consists of the following types of questions.

Question Type	Number of Questions
Six Sigma Process	5
Discrete Distributions	3
Continuous Distributions	3
Statistical Inference	3
Measurement Assurance	3
SPC	3
Process Capability	3
Regression	3
One-Way ANOVA	2
Multi-Factor ANOVA	2

The *Applications* section of the exam is designed to test the examinee's business methods and problem-solving capability. The problems in the *Applications* section are more involved and may take up to an hour to complete. Because the questions in the *Applications* section vary in the level of difficulty, the questions are weighted when the exam in scored. The *Applications* section consists of the following types of questions.

Question Type	Number of Questions	Question Weighting
Basic Experimental Design	1	5
Process Target Optimization	1	10
Process Variance Optimization *	0	10
Project Value	3	1
Project Management	1	4

* Currently the exam does not contain any Process Variance Optimization problems.

The following scores are required to meet the exam requirements for certification. Before full certification can be achieved requirements must be met for black belt projects.

Certification Type	Required Fundamentals Section Score	Required Applications Section Score
Green Belt	50%	0%
Black Belt	60%	50%
Master Black Belt	75%	75%

Six Sigma DMAIC Certification

This is the certification that started it all. DMAIC or Define, Measure Analyze, Improve and Control is the certification focused on problem solving. Whether it is improving customer satisfaction, reducing warranty or reducing variability in service time, DMAIC will provide the structure for the improvement process.

The IQF certification exam is nothing like traditional certification exams. Instead, it is a rigorous, computer-based test of your ability to use modern methods to improve business operations. The exam consists of 2 modules:

1. Fundamentals – short questions & problems designed to test the basic understanding of Six Sigma tools & concepts.
2. Applications (not required for Green Belt) – detailed problems designed to test Six Sigma problem solving ability.

Each of these modules must be completed in 4 hours. The exam is open book, and any computer software may be used.

In addition to the exam, project work and for the Master Black Certification, teaching and mentoring are required as shown in the table below.

Certification Level	Project Requirement	Teaching & Mentoring Requirement
Green Belt	None	None
Black Belt	2 Projects	None
Master Black Belt	2 Projects	Two years of teaching and mentoring including 8 mentored projects and 80 hours of teaching.

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