



**Name of the Program(s):** - Diploma in Six Sigma Management (DSSM)<sup>™</sup>, Professional Certificate in Lean Six Sigma (PCLSS)<sup>™</sup>, Lean Six Sigma Professional (LSSP)<sup>™</sup>, Certified Lean Six Sigma Practitioner (CLSSP)<sup>™</sup>, Certified Six Sigma Green Belt (CSSGB)<sup>™</sup>, Certified Six Sigma Black Belt (CSSBB)<sup>™</sup>, Certified Six Sigma Yellow Belt (CSSYB)<sup>™</sup>, Certified Six Sigma White Belt (CSSWB)<sup>™</sup>.

Are you interested in earning your Diploma or Professional Certificate in Six Sigma Management, Lean Six Sigma? (DSSM, PCLSS, LSSP, CLSSP, CSSBB, CSSYB, CSSWB)<sup>™</sup> certification, but you're unsure how to start the process? While this is a great step for your individual career, it doesn't have to be a complex one really if you study from GEPEA. This is the ultimate guide on aforesaid certification and it can be your easy roadmap for navigating this process. You may explore some common questions you might have about Diploma or Professional Certificate in Six Sigma Management, Six Sigma certification, and learn what steps you need to take to become a Professional Six Sigma credential holder.



## PROFESSIONAL TRAININGS IN SIX SIGMA AND LEAN SIX SIGMA

**Training Hours: 24 to 36 hours.**

**Program Duration:** 3 months (Fast Track) and 4 months in full one semester (Certifications).

**Admission Requirements:** A diploma or an associate degree (or global equivalent),  
Secondary degree (high school diploma, associate degree, or the global equivalent).

**Other Requirements:** No special requirements or prerequisites are needed to take this course, but using Email, Internet, Computer Application, English for communications will help.

**Training Delivery:** The course duration will comprise 24 to 36 hours of self-study home based or lecture based delivery. The 24 to 36 hours will be delivered in 3 to 4 sessions online distance learning based on given course materials.



### Syllabus Outline

Serial No.	Syllabus component	Assignment TMA (Tutor Mark Assignment) or Case Study	Board Questions (OBS = Open Book System) Exam.	MCQ (Multiple Choice Questions) 10 Questions (each @ 2 marks)
	<i>Diploma Program Certificate will consist 3 Parts/Lessons will count 12 hours each (3 parts/Lessons x 12 hours = 36 hours total) = Grand Total 36 Hours only. Or Professional Certificate in White/Yellow/Green/Black Belts Program will consist 2 Parts/Lessons will count 12 hours each (2 parts/Lessons x 12 hours = 24 hours total) = Grand Total 24 Hours only.</i>	45	35	20

	<b>Diploma in Six Sigma Management (DSSM)<sup>TM</sup>, Professional Certificate in Lean Six Sigma (PCLSS)<sup>TM</sup>, Lean Six Sigma Professional (LSSP)<sup>TM</sup>, Certified Lean Six Sigma Practitioner (CLSSP)<sup>TM</sup>, Certified Six Sigma Green Belt (CSSGB)<sup>TM</sup>, Certified Six Sigma Black Belt (CSSBB)<sup>TM</sup>, Certified Six Sigma Yellow Belt (CSSYB)<sup>TM</sup>, Certified Six Sigma White Belt (CSSWB)<sup>TM</sup>.</b>	24 or 36 Credit Hours		
	<p style="text-align: center;"><b>SEMESTER-1:</b></p> <p><b>1. <u>Six Sigma (A Complete Guide &amp; Lesson)</u></b></p> <p>Introduction to Six Sigma: What is six Sigma?  Projects and Processes  Advanced Dmaic  Analyze  Beginner Statistics  Intermediate Statistics  Advanced Control  Experiments  Minitab  Six Sigma in Professional Fields  Six Sigma in Customer facing fields  Six Sigma in non-Customer facing fields</p> <p><b>2. <u>Six Sigma for Quality &amp; Productivity Promotion:</u></b></p> <p>Six Sigma Overview  Six Sigma Framework  Six Sigma Experiences and Leadership  Basic QC and Six Sigma Tools  Six Sigma and Other Management Initiatives  Further Issues for Implementation of Six Sigma  Practical Questions in Implementing Six Sigma  Case Studies of Six Sigma Improvement Projects</p> <p><b>3. <u>Six Sigma and Quality Management:</u></b></p> <p><b>Quality Management:</b> Quality Control  Total Quality Control  Quality control in project management  Total quality management  TQM and Six Sigma  Quality management system (QMS)  Quality management organizations and awards  The Roots of Modern Quality Management  The basics of Six Sigma</p> <p><b>Tools:</b>  Ishikawa diagram 78  Check sheet 82</p>	<p style="text-align: center;"><b>45</b></p> <p><i>Six Sigma Complete Guide will count 12 Credits</i></p> <p><i>Six Sigma for Quality &amp; Productivity Promotion will count 12 Credits</i></p> <p><i>Six Sigma &amp; Quality Management 12 Credits</i></p>	<b>35</b>	<b>20</b>

	<p>Histogram 86</p> <p>Control chart 92</p> <p>Pareto chart 100</p> <p>Scatter plot 102</p> <p>Stratified sampling 104</p> <p>Flowchart 106</p> <p>Run chart 111</p> <p>Statistical process control 113</p> <p><b>Systems for Implementation:</b></p> <p>DMAIC 117</p> <p>Design for Six Sigma 118</p> <p>Voice of the customer 121</p> <p>Poka-yoke 123</p> <p>Muda (Japanese term) 125</p> <p>Nemawashi 128</p> <p>Blue Ocean Strategy 129</p> <p>TRIZ 135</p> <p>Lean Six Sigma 140</p> <p><b>To qualify for the Certified Six Sigma Green Belt (CSSGB) or Certified Six Sigma Black Belt (CSSBB) or Certified Six Sigma Yellow Belt (CSSYB) or Certified Six Sigma White Belt (CSSWB) candidates are advised to study the following respective subject(s):</b></p> <p><b>Belts Courses/OPTIONAL SUBJECTS:</b>  <i>(Below the options to select one or two subjects for Professional Certification/Degree or Diploma Programs)</i></p> <ol style="list-style-type: none"> <li>1. The 5 Phases of Lean Six Sigma</li> <li>2. Lean Six Sigma White Belt</li> <li>3. Lean Six Sigma Green Belt</li> <li>4. Lean Six Sigma Yellow Belt</li> <li>5. Lean Six Sigma Black Belt or <a href="https://www.qimacros.com/pdf/Four-Hour-Black-Belt.pdf">https://www.qimacros.com/pdf/Four-Hour-Black-Belt.pdf</a></li> <li>6. Six Sigma Implementation and Management</li> <li>7. Lean Six Sigma for Dummies</li> </ol> <p><b>FOLLOWING ADDITIONAL TASKS SHOULD HAVE TO DONE BY PARTICIPANTS OR STUDENTS:</b></p> <ol style="list-style-type: none"> <li>a) Six Sigma and Quality Management Certification Test MCQ Questions answer practicing</li> <li>b) Six Sigma and Quality Management Certification Test Board Questions/TMA (Tutor Mark Assignment)</li> <li>c) Six Sigma and Quality Management Certification Case Studies</li> </ol> <p><b>Exercises and projects</b></p>	12 Credits			

	<b>Videos on Six Sigma, Lean Six Sigma etc.:</b> <ol style="list-style-type: none"> <li>1. <b>Lean Six Sigma In 8 Minutes   What Is Lean Six Sigma?   Lean Six Sigma Explained</b>  <a href="https://www.youtube.com/watch?v=s2HCrhNVfak">https://www.youtube.com/watch?v=s2HCrhNVfak</a></li> <li>2. <b>Six Sigma Full Course   Six Sigma Explained   Six Sigma Green Belt Training</b>  <a href="https://www.youtube.com/watch?v=KfFez57ay6E">https://www.youtube.com/watch?v=KfFez57ay6E</a></li> <li>3. <b>Introduction to LEAN Six Sigma in 3 Minutes</b>  <a href="https://www.youtube.com/watch?v=DBKfGIP_NAg">https://www.youtube.com/watch?v=DBKfGIP_NAg</a></li> <li>4. <b>DMAIC Six Sigma example- pizza restaurant / six sigma example / DMAIC example/ dmaic process example</b>  <a href="https://www.youtube.com/watch?v=Atit_jMOd0E">https://www.youtube.com/watch?v=Atit_jMOd0E</a></li> <li>5. <b>Six Sigma Complete Project Example   Learn complete DMAIC project example</b>  <a href="https://www.youtube.com/watch?v=sF3c0S05JcU">https://www.youtube.com/watch?v=sF3c0S05JcU</a></li> </ol>			
	<b>Project/Thesis/Case Studies</b>			
	<p>Student have to take a Project/Thesis/Case studies as per their major subject in order to complete his/her Diploma/Certification.</p> <ul style="list-style-type: none"> <li>• In case Project/Thesis, respective students should submit Minimum 15 to 45 (A4 Size) pages long report. <i>Course Tutor or Concern Authority will assign/fix Project/Thesis Topic or Title with consultation with respective student.</i></li> <li>• In Case Studies, respective students should submit case studies answer script in written form to the GEPEA within stipulated time frame. <i>Concern Authority will assign case studies question paper in time.</i></li> </ul>			
	<p><b>TOTAL HOURS REQUIRED TO BE COMPLETED FOR THE TOTAL QUALITY MANAGEMENT PROFESSIONAL, QUALITY AUDITOR, LEAD AUDITOR CERTIFICATIONS =</b></p> <p><i>Diploma Program Certificate will consist 3 Parts/Lessons will count 12 hours each (3 parts/Lessons x 12 hours = 36 hours total) =</i></p> <p><b>Grand Total 36 Hours only. Or</b></p> <p><i>Professional Certificate in White/Yellow/Green/Black Belts Program will consist 2 Parts/Lessons will count 12 hours each (2 parts/Lessons x 12 hours = 24 hours total) =</i></p> <p><b>Grand Total 24 Hours only.</b></p>			

## WHY DO NEED TO STUDY SIX SIGMA MANAGEMENT?

Six Sigma ensures superior quality of products by removing the defects in the processes and systems. Six sigma is a process which helps in improving the overall processes and systems by identifying and eventually removing the hurdles which might stop the organization to reach the levels of perfection.

## SCOPE AND CAREER OF SIX SIGMA PROFESSIONAL CERTIFIED OR DIPLOMA HOLDERS

Six Sigma deployment helps the industries to get the defect level below 3.4 DPMO (defects per million opportunities), which is a benchmark for any Six Sigma oriented industry. Six Sigma consulting helps the industries to reduce the variations in processes and the products. Career Scope for six sigma certified holders are as follows:

- Improvement Engineers.
- Business Analysts.
- Quality Leaders.
- Operations Managers.
- Process Leaders.
- Process Personnel and so on.

## COURSE MATERIAL

Besides using the traditional books GEPEA has also modernized the learning process by providing students with online portal consisting of –

- **Study Materials (Soft copies)** – PDF of books are provided to students making studies nomadic & convenient. GEPEA Department of Students Affairs will assign Study Materials via Email or other methods after registration and admission.
- The focal point of **GEPEA** study materials is enhancing Practical Education. **GEPEA** Kit provided to applicants is a world full of practical scenarios, explanation in terms of facts rather than theoretical phrases. Customized to be self-explanatory & easy to understand.
- **Faculty Guidance** – GEPEA panel of intellectuals guide students personally with regards to any query through email about any concept in the notes provided, being the author of the same.

## EXAMINATION

**GEPEA** Professionals are given the privilege to answer exams from any examination center in the world along with the freedom to pick the exam schedule for the same, as time permits in the particular examination months of GEPEA. Students are allotted 2 modes of examinations – Home Based/Center Based.

- Question papers would be drafted by **GEPEA** panel of veteran professors which would be TMA (Tutor Mark Assignment), OBS (Open Book System) and MCQ study pattern. A single course will consist 100 marks based on these three pattern of exam types. In each program will consist a major (Thesis Research) course or theory in order to complete the respective Diploma Program.
- This unique & novel methodology teaches a student how to assess business situations and make decisions based upon those assessments, allowing students to display their potential.
- In case of home based/distance learning exams question paper would be emailed to the students, which they would have to answer & courier back to GEPEA office or GEPEA directed authority in the respectable exam slab.
- Candidate also has the option of appearing for Center Based Examination wherein they would have to visit one of the many GEPEA exam centers & complete answering the exam in the duration of 3 hours which wouldn't be an open book examination.



## **CASE STUDY METHOD & STUDY MATERIAL:**

Today communication systems have advanced so much that it is much easier, convenient and quicker to gain expertise via online distance learning. GEPEA offer potential students the opportunity to study through an autonomous online distance learning program. This means that people who can't get traditional further education can still achieve what they want and get their qualifications through Online Distance Learning. That gives the opportunity for a much wider range of people to get the qualifications that they want. Today, thanks to technological advances, higher education is more readily available to those who want it.

GEPEA is an institute of excellence offering widest range of autonomous programmes in the field of Business Management and different Professional Training education. In response to the rapidly changing economic environment and the process of globalization, the Academy has made sustained efforts to bring an international perspective to all its wide range of areas and activities.

## **BENEFITS AND FETURES:**

- (i) **Flexible Programs & Curriculum:** You can earn and study at the same time! From GEPEA International Curriculum, Flexibility is the biggest advantage of distance learning courses. This stands true especially if you are a working professional. Not everyone has the luxury of taking their own time to finish their studies. For those who had to take a break from studies to start working, such courses are a boon and provide the opportunity to pursue higher education.
- (ii) **Saves Time & Energy:** You save up a lot of time and energy on commuting. You can stay at any place and pursue a course that is available at GEPEA. Or you might be based out of a remote village or town which does not have enough options for higher studies. Distance learning courses eliminate these obstacles.
- (iii) **MCQ, Case Based Learning:** MCQ, A Case-based approach engages students in discussion of specific situations, typically real-world examples of African, Asian and International companies. Allowing the students to put their theoretical knowledge to practice.
- (iv) **Study at your own Pace:** Not everyone has the same pace of learning. Some students pick up things fast, others need time to grasp a concept. One of the biggest advantages of distance learning is that you can study at a pace that is comfortable for you.
- (v) **Saves Money:** These courses are almost always cheaper as compared to their on-campus counter-parts. You also cut down on the costs incurred while commuting etc.
- (vi) **Personal Fulfillment:** An MBA is the key to unlocking both a professionally and personally rewarding future. Education is the foundation upon which you can build lifelong business and personal achievements. The GEPEA MBA program is designed to enrich your personal life, as well as to keep you informed about a constantly changing industry.
- (vii) **Convenient:** You can submit your assignment with the click of a button or simply drop it off at a post-office! It's sometimes as simple as that!
- (viii) **24X7 Access to Study Material & fellow Students:** This is the best way to study if you are comfortable with internet and technology. You can access your study material online whenever you want and also clear doubts, exchange views and discuss with your virtual class-mates!
- (ix) **Study any Topic You Want:** Since you'd already have all your books/online study material with you, you can pick up any topic/chapter that interests you and tackle that first! This way your interest in the subject is

sustained.

- (x) **Higher Level of Self-Confidence:** The knowledge gained through our Correspondence MBA program will enhance your effectiveness in your current position and help define your future career path. It will sharpen your skills in critical business areas, giving you the self-confidence you need to become a leader in your profession.
- (xi) **Specialization:** We provide more than 80 specializations which allow students to gain additional knowledge and background on specific business topics.

## **ACCREDITATIONS AND RECOGNITIONS:**

### **ITQSM Accredited & International Partnered Professional Academies.**

GEPEA has proudly claimed the Excellence in Online Distance Learning Award presented by its Governing Body Really Matters as a token of appreciation for providing top notch education to professionals globally. This solely proclaims that GEPEA is one of the best Professional Academy in the field of online distance learning.

## **PROFESSIONAL FACULTIES:**

GEPEA Faculty members are highly professional, qualified & experienced. Professors provide substantial assistance through 24\*7 web support. Each & every query regarding studies, assignments, cases, projects, research are resolved on time & responded with clear, relevant answers on par with syllabus. They update themselves from time to time about the changing market scenario & syllabus. Thus working professionals have chance to get resourceful information by interacting with professors through web-support from time to time. Timely communication & assistance is key to our successful association with our students & our professors believe in same.

### ***GEPEA (Global Educational & Professional Excellence Academy)***

In collaboration with ITQSM (Institute of Total Quality Service Measurement)



*In case any query, please feel free to contact us via E-Mail:*

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