

## **CERTIFIED SIX SIGMA – GREEN BELT Training Program**



This nationally recognized Six Sigma Greenbelt training program encompasses all aspects of running a Six Sigma Greenbelt business; including management, service delivery, design, production and customer satisfaction. Six Sigma is one of the highest standards for companies and individuals to achieve. This interactive training provides the skills needed to master this highly valuable skill. All materials included.

**This Program is ideally suited to following individuals who are:**

- **Working Class who are involved in the Quality Management Systems**
- **Organization who would like to achieve the highest level of quality**
- **People who are looking a career job in field of quality management systems and would become a consultant in the six sigma field.**

**Program is offered by: 3D Educators – Trainers & Consultants**

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## Program Details

### Inauguration

The Training Program will be inaugurated by a senior member of 3DEducators

### Program Structure

Duration of each class	2-Hour
Classes Per Week	2 Classes
Total Duration	48 Hours

### Other Learning Activities:

Classroom Assignments	4
Presentations by Trainees	1

### About the Program Designer & Instructor

- ✓ The “Six Sigma – Green Belt” Program has the international designed certification and will be conducted by the huge and vast experience trainer and consultant.

They trainers are foreign qualified and having the degree & certification of Ph.D, MBA, MSc.

As Consultant & Senior Trainers the team of trainers from Engineering side we **3D Educators – Trainers & Consultants** would not compromise on the faculty.

## **Program Syllabus**

### **COURSE OUTLINE:**

#### **I. Why Six Sigma?**

- a. Definition and Graphical View of Six Sigma
- b. Comparisons Between typical TQM and Six Sigma Programs
- c. Origins and Success Stories

#### **II. How to Deploy Six Sigma**

- a. Description of the Roles and Responsibilities
- b. Project Focus
- c. Overview of DMAIC Methodology

#### **III. DEFINE: Project Definition**

- a. Define Objectives
- b. Work Breakdown Structure
- c. Pareto Diagrams
- d. Process Maps
- e. Matrix Diagrams
- f. Project Charters
- g. Reporting

#### **IV. DEFINE: Project Scheduling**

- a. Activity Network Diagram
- b. PERT Analysis
- c. GANNT Chart

#### **V. DEFINE: Change Management/Teams**

- a. Problems with Change
- b. Achieving Buy-In
- c. Team Formation, Rules, and Responsibility
  - i. Stages of Team Development
  - ii. Overcoming Problems
- d. Consensus Building Tools
  - i. Affinity Diagram

- ii. Nominal Group Technique
- iii. Prioritization Matrix

**VI. MEASURE: Tools and Objectives**

- a. Objectives
- b. Flowcharts
- c. Process Maps
- d. SIPOC
- e. Box-Whisker Plots
- f. Cause and Effect Diagrams
- g. Check Sheets
- h. Interrelationship Diagram
- i. Stem and Leaf Plots

**VII. MEASURE: Establishing Process Baseline**

- a. Enumerative v. Analytic Statistics
- b. Process Variation
- c. Benefits of Control Charts
- d. Requirements v. Control
- e. Control Chart Interpretation

**VIII. MEASURE: X-Bar Charts**

- a. Uses
- b. Construction and Calculations
- c. Assumptions
- d. Rational Subgroups
- e. Sampling Considerations
- f. Interpretation

**IX. MEASURE: Individuals Data**

- a. Uses
- b. Construction and Calculations
- c. Assumptions
- d. Sampling Considerations
- e. Interpretation
- f. Overview of Other Individuals Charts

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- i. Run Charts
- ii. Moving Average Charts
- iii. EWMA Charts
- iv. CuSum Charts

**X. MEASURE: Process Capability**

- a. Histograms
- b. Probability Plots
- c. Goodness of Fit Tests
- d. Capability and Performance Indices
- e. Relative to Process Control
  - i. Interpretation
  - ii. Estimating Error

**XI. MEASURE: Attribute Charts**

- a. Uses
- b. Selection
- c. Construction and Calculations
- d. Sampling and Considerations

**XII. ANALYZE: Lean Thinking**

- a. Definition of Waste
- b. Analyzing Processes for NVA
  - i. Cycle Efficiencies
  - ii. Lead Time and Velocity
- c. Methods to Increase Velocity
  - i. Standardization
  - ii. Optimization
  - iii. Spaghetti Diagrams
  - iv. 5S
  - v. Level Loading
  - vi. Flow
  - vii. Setup Reductions

**XIII. ANALYZE: Introduction to Regression Analysis**

- a. Scatter Diagrams

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- b. Linear Model
- c. Interpreting the ANOVA Table
- d. Confidence and Prediction Limits
- e. Residuals Analysis
- f. Overview of Multiple Regression Tools

**XIV. IMPROVE: Tools and Objectives**

- a. Improve Stage Objectives
- b. Tools to Prioritize Improvement Opportunities
- c. Tools to Define New Process Flow
- d. Tools to Define and Mitigate Failure Modes
  - i. PDPC
  - ii. FMECA
  - iii. Preventing Failures
- e. Reference to Tools for Defining New Process Levels

**XV. CONTROL: Tools and Objectives**

- a. Control Stage Objectives
- b. Control Plans
- c. Training
- d. Measuring Improvement

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## **TERMS & CONDITIONS**

### **WITHDRAWAL FROM THE CERTIFICATION**

Students are not allowed to withdraw from the CERTIFICATION. If a student cannot continue the CERTIFICATION his/her fee will be forfeited.

### **CONDUCT AND DISCIPLINE**

A disciplinary action, leading to rustication, will be taken against students whose conduct is found objectionable at any time during the course of study. Reference will be made to 3D Educators code of conduct.

### **EVALUATION AND GRADING**

The performance of students is evaluated through continuous observation of a student's performance in the CERTIFICATION – class participation, submission of assignments, quizzes and exercises.

The student will be examined through three hourly exams conducted at the midterm and a final exam at the end of the program. Total marks for passing the CERTIFICATION will be 60 out of a total of 100.

Students who do not meet the attendance or any other eligibility criteria will not be allowed to appear in the final examination.

The following grading plan will be applicable for the CERTIFICATION:

<b>A</b>	<b>87 - 100</b>
<b>B+</b>	<b>81 -86</b>
<b>B</b>	<b>72 - 80</b>
<b>C+</b>	<b>66 - 71</b>
<b>C</b>	<b>60 - 65</b>
<b>F</b>	<b>below 60</b>



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Students who are unable to appear for the final exam are required to submit a written application stating the reason for not appearing for the exam. 3D Educators reserves the right to approve or deny such applications. If approved, the student will be allowed to sit for the exam within one month. Failure to do so, the student will be resubmit the examination fee and sit the future schedule exam. Without passing of the exams no certification will be awarded.



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## **ONLINE LIVE CLASSES FACILITY AVAILABLE**

- Instructor Led Training
- Real Time Presentations
- Interactive Classes
- Complete Notes and Other Stuff shall be provided through our Secure Student Login Member's Area
- For Online Live Classes, you may please download the Admission Form through our website <http://www.3deducators.com>. Fill it properly and attached the required document along with Picture and send back to [info@3deducators.com](mailto:info@3deducators.com) with scanned fee submitted voucher in the bank.
- For Pakistan you may submit the fee at any MCB Branch with the title of "3D EDUCATORS-TRAINERS & CONSULTANTS".
- If you are outside Pakistan then you may transfer via Bank to Bank or any western union, Fast Track, Money Gram or else International Transfer Body.
- After Admission, if you don't have GMAIL Account then you are requested to kindly make one GMAIL Account and shared it [info@3deducators.com](mailto:info@3deducators.com). Then further correspondence shall be made by our institute official.
- Extra Bandwidth Charges shall be incurred.
- If you are outside country or city then extra courier charges shall be incurred for Certificate.

## **PRECAUTIONARY MEASURES**

- ✓ During Classes, you are requested to make sure that you are in isolated room, where no noise should be there except your voice.
- ✓ Kindly Switch Off your Cell Phone during the class, because it will disturb the quorum of class.
- ✓ If you have taken the admission in the course online, ethically it is recommended and suggested that you only avail this facility.
- ✓ Recording of Lectures are not allowed at your end.

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This world is emerging and growing in the 21st Century very rapidly because of latest and remarkable technologies and its advancement. Due to advancement of technology, we 3D EDUCATORS offer Live Interactive class sessions.

3D EDUCATORS believe on Information Technology and its systems. Now you can also avail this facility at your home.



**DISTANCE NOT MATTER**

You can join in the live classes Sessions of **3D EDUCATORS – TRAINERS & CONSULTANTS** from anywhere of the world.

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**(Get the Admission Form)**

[Admission Form](#)

**MANAGEMENT**

**3D EDUCATORS – TRAINERS & CONSULTANTS**

FINAL CERTIFICATION AWARDED BY IMRTC – USA

SAMPLE CERTIFICATE

**CERTIFICATE  
OF EXCELLENCE**

IMRTC USA Recognized

**CERTIFICATION**



*This is to Certify That*

**Mr. Danny Jones Wales**

*has successfully met the certification requirements as outlined in  
IMRTC content and the policies adopted thereunder, hereby grants the certification of*

**Certified OHSAS 18001 Lead Implementation**

Student ID: IM864532201

Date of Commencement: May 4, 2014

Date of Ending: July 4, 2014



*Cheryzel Rhodes*

Principal of Institute

Director Affiliations and Official Affairs

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**CERTIFICATE OF AUTHORIZATION**

**CERTIFICATE  
OF AUTHORIZATION**

IMRTC USA Recognized

**CERTIFICATE OF AUTHORIZATION**



*This is to Certify That IMRTC Authorized*

**3D EDUCATORS - TRAINERS & CONSULTANTS**

*to work as Training & Research Partner in capacity of  
PARTNER THROUGH PAKISTAN CHAPTER  
for the scope of activity shown below in accordance with the applicable rules of  
the IMRTC. The use of this certification and the authority granted by this  
Certificate of Authorization are subject to the provision of agreement set  
forth in the application.*

*The validity of this certificate is for Two Years from the date of Issuance  
and will increase according to the performance  
Issuance Date: 16 Aug 2015*

*Cheryyel Rhodes*

Director Affiliations and Official Affairs



Chapter ID: AS2933770

**INTERNATIONAL MANAGEMENT RESEARCH & TECHNOLOGY CONSORTIUM**

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