



LEAN



6σ



*wel come to*



**BEYOND SMART CITIES**





# B E Y O N D

S M A R T C I T I E S

## IASSC CERTIFIED GREEN BELT - ICGB

### OVERVIEW

### ONLINE TRAINING BY KRISHNAJI PAWAR

LEED AP(BD+C), GSAS CGP, GCP, ISO 14001

**KNOWLEDGE IS POWER**

L E A R N . B E Y O N D S M A R T C I T I E S . I N

# BEYOND

SMART CITIES

MODULE

1

## Introduction and Course Outline

KRISHNAJI PAWAR - CEO & FOUNDER

LEED AP(BD+C),GSAS CGP,GCP,ISO 14001

[WWW.BEYONDSMARTCITIES.IN](http://WWW.BEYONDSMARTCITIES.IN)





# BRIEF ABOUT ME

**Krishnaji PAWAR**

**CEO & FOUNDER**

Krishnaji Pawar is founder and CEO of Beyond Smart Cities. Before being named CEO in January 2020, Krishnaji held leadership roles at Beyond Smart Cities in both Sustainability ,Energy & Environmental Consultancy.

Specialized in developing sustainable design strategies for Green Building Certification Systems (LEED, GSAS, etc.), Energy & Water Conservation, Commissioning, Environmental Impact Assessment & Environmental Management Systems.

Currently responsible for 3,787 million square feet Green Building /Energy modeling Consulting since January 2008 in UAE, India and Qatar.



# IASSC CERTIFIED GREEN BELT - ICGB OVERVIEW

The IASSC Certified Green Belt (ICGB) certification is a certification offered by the International Association for Six Sigma Certification (IASSC) to individuals who are knowledgeable about the principles of Lean Six Sigma and can effectively apply these principles in real-world scenarios.

# Learning Objectives

- **Introduction**
- **The Basics of Six Sigma**
- **Six Sigma and Organizational Goals**
- **Lean Principles in the Organization**
- **Design for Six Sigma (DFSS) Methodologies**
- **Certified Lean Six Sigma Green Belt Certification**
- **Summary and Resources**
- **ICGB Quiz\_Test Your Knowledge!**



## INTRODUCTION

### Understanding Lean Six Sigma and Certification

- Lean Six Sigma is a methodology that combines Lean manufacturing and Six Sigma principles to enhance performance.
- The International Association for Six Sigma Certification (IASSC) offers the IASSC Certified Green Belt (ICGB) certification.
- The ICGB certification signifies a practitioner's capability to contribute to process improvement projects and support Black Belts in their initiatives.

# IASSC CERTIFIED GREEN BELT OVERVIEW

## Eligibility and Prerequisites

- The ICGB certification does not have formal prerequisites, but candidates should have a foundational understanding of Lean Six Sigma concepts.
- Previous experience in a related field or participation in a Six Sigma project can enhance a candidate's ability to succeed on the examination.



# KEY CONCEPTS AND BODY OF KNOWLEDGE

- The ICGB certification is centered around a comprehensive Body of Knowledge (BOK) that encompasses the fundamental principles and tools of Lean Six Sigma.
- The BOK is structured into several key areas:
  - Define Phase: Understanding project goals and customer requirements.
  - Measure Phase: Collecting and analyzing data to establish baselines and identify performance gaps.
  - Analyze Phase: Identifying the root causes of defects or inefficiencies.
  - Improve Phase: Developing and implementing solutions to address root causes.
  - Control Phase: Ensuring that improvements are sustained over time through monitoring and control plans.



# IASSC CERTIFIED GREEN BELT

## OVERVIEW + Examination Structure

- The ICGB certification exam consists of 100 multiple-choice questions, which candidates must complete within a four-hour time frame.

## Benefits of Certification

- **Career Advancement:** Signals a candidate's commitment to continual learning and expertise in Lean Six Sigma methodologies.
- **Skill Development:** Deepens understanding of process improvement tools and techniques.
- **Organizational Impact:** Green Belts equipped with certification can lead improvement projects that yield significant cost savings, quality enhancements, and increased customer satisfaction.



# CERTIFIED LEAN SIX SIGMA GREEN BELT OVERVIEW

- The IASSC Certified Lean Six Sigma Green Belt (ICGB) is a professional knowledgeable in the core to advanced elements of the Lean Six Sigma methodology.
- They lead improvement projects or serve as part-time team members in complex improvement projects led by a Certified Black Belt.
- The ICGB understands the Define, Measure, Analyze, Improve, and Control (DMAIC) phases of the Lean Six Sigma Method.
- The IASSC Certified Lean Six Sigma Green Belt Exam is a 100-question, closed-book, proctored exam administered in over 8,000 testing centers worldwide.
- To obtain the professional designation, candidates must sit for the IASSC Certified Lean Six Sigma Green Belt Exam and achieve a minimum score of 70%.
- Preparation for the exam includes Lean Six Sigma training, real-world Lean Six Sigma work experience, and project application experience.
- IASSC issues the IASSC Green Belt Certification to professionals upon successful achievement.
- An IASSC Certified Green Belt is issued a Certificate, a Certification Number, a badge, and the right to use the IASSC Certification Marks and Titles.



# INTERNATIONAL ASSOCIATION FOR SIX SIGMA CERTIFICATION (IASSC)

- IASSC is an independent third-party certification body focused on enhancing standards within the Lean Six Sigma community.
- It does not offer Lean Six Sigma-related training, mentoring, coaching, or consulting services.
- IASSC facilitates and delivers centralized universal Lean Six Sigma Certification Standards testing and accreditations.
- Its mission is to recognize professionally qualified individuals and organizations, continually research and characterize industry recognition criteria, and deliver professionally developed exams.
- IASSC supports the community of Certified Professionals and Accredited Organizations by upholding the IASSC Universally Accepted Lean Six Sigma Body of Knowledge and a strict code of ethics.
- In 2020, PeopleCert acquired IASSC, a global leader in exam delivery and professional skill certification.





# KEY TERMINOLOGIES IN IASSC CERTIFIED GREEN BELT (ICGB)



- **Six Sigma:** A data-driven methodology aiming for fewer than 3.4 defects per million opportunities.
- **DMAIC:** An acronym for Define, Measure, Analyze, Improve, and Control.
- **Defect:** Any instance where a product or service fails to meet specified requirements or standards.
- **Process Capability:** A statistical measure of a process's ability to produce output within specified limits.
- **Root Cause Analysis (RCA):** A systematic approach to identifying the fundamental cause of a problem.



# KEY TERMINOLOGIES IN IASSC CERTIFIED GREEN BELT (ICGB) +



- **Control Charts:** Graphic representations used to monitor process variation over time.
- **Variation:** Differences in a process's output.
- **Fishbone Diagram:** A visual tool used to systematically identify and present potential causes of a specific problem.
- **Lean:** A methodology focused on eliminating waste within a process.
- **Voice of the Customer (VoC):** The process of capturing customers' expectations, preferences, and aversions.



# WELCOME TO BEYOND SMART CITIES

Beyond Smart Cities is the world's 1st Green Technology Marketplace, connecting millions of Sustainability Specialists, Green Building Specialists, Energy Specialists, Commissioning Specialists, Environment Specialists, Health & Safety Specialists, Fire Safety Specialists, Climate Change Specialists & Green Products/Technology Manufacturers with independent talent around the globe.

Our mission is to build and support a global community of experts with the highest professional standards in sustainability, green building, energy, commissioning, environment, health & safety, fire safety, climate change, GHG accounting, carbon auditing, and GHG emissions management.

**B**EYOND  
SMART CITIES

**CONTACT US**



+91 6363032722



[info@beyondsmartcities.in](mailto:info@beyondsmartcities.in)



[learn.beyondsmartcities.in](http://learn.beyondsmartcities.in)



#55,HMR Layout ,Bengaluru ,India



# THANK YOU

