

ELEVATE OPERATIONAL PERFORMANCE

Accredited Lean Six Sigma Black Belt

BPI SERVICES
Business Performance Improvement

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Through the Elevate Operational Performance pillar, we help organisations clarify their direction, strenghten their vision and define a clear sense of purpose. Together we align priorities and translate ambition into focused, actionable strategies that drive sustainable growth.

Daily Management Systems	Visual Performance Management	Tiered Board Design at all Levels	Design and Deployment of Huddles	Tiered Meeting Facilitatior Training and Effectivness
Transformation Project Mastery	A3, Yellow, Green, Black or Master Black Belt Certification	Project Management Training	PMP Preparation	Scrum and Agile Certification
Business Excellence Fundamentals	Operational Excellence Leadership and Governance	Advanced Problem Solving & Improvement	Process, Flow & Operational Performance	Data, Metrics & Performance Insight
Tiered Organisational Metrics	Enterprise Performance Metrics - Strategic Level	Enterprise Performance Metrics - Oprational Level	Enterprise Performance Metrics - Tactical Level	
Facilitating Impactful Workshops	Design & Facilator group workshops	Design & Facilitator virtual workshops	Coaching Internal Workshop Facilitator	Workshop Facilitator Training
Boosting Leadership & Teamwork Performance	Boosting Leadership & teamwork with insights discovery	Capacity Analysis & Action Plan	Organisational Design & Deployment	Performance Metrics for Personal and Business Success

Featured Programme: Lean Six Sigma Black Belt

Lead complex, cross-functional improvement projects using DMAIC and advanced data analysis to identify root causes, test solutions and deliver measurable, lasting results.

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Lean Six Sigma Black Belt

OVERVIEW OF THE PROGRAMME

A Lean Six Sigma Black Belt is a part-time improvement leader responsible for driving strategic, cross-functional transformation initiatives using advanced Lean Six Sigma methods. Black Belts lead complex projects, coach Green Belts and teams, and apply advanced analytical tools to solve critical business problems and deliver sustainable performance improvements.

Programme Objective

Black Belt projects typically run 8–12 months and address complex challenges that require deeper analysis, stakeholder engagement, and organizational alignment. The certified programme includes advanced training in Lean Six Sigma methodologies, leadership of a completed project with verified financial and business impact, and a final multiple-choice examination. By working on real organizational challenges, participants develop both advanced technical expertise and leadership capability, enabling them to drive continuous improvement initiatives, mentor others, and support long-term operational excellence across the organization.

Key Outcomes

At the end of this programme participants will be able to:

- Apply advanced Lean Six Sigma methods, structured problem-solving, and project management approaches to address complex organizational challenges
- Lead high-impact, cross-functional improvement initiatives that deliver measurable business performance improvements and significant financial benefits
- Coach and mentor Green Belts and project teams, strengthening the organization's capability to solve problems and sustain improvements
- Act as a key driver of a culture of Continuous Improvement by influencing leaders, engaging teams, and embedding structured improvement practices across the organization

Who is this programme for?

The Lean Six Sigma Black Belt programme is designed for experienced improvement practitioners who lead complex projects across teams or departments. Participants use DMAIC and advanced data analysis to identify root causes, test solutions and deliver measurable, lasting improvements. They receive mentoring as they apply these skills to a workplace improvement project.

Duration and structure

The Black Belt programme includes:

- 11 training workshops
- 5 × 30-minute online project scoping and mentoring callsa
- 2 × 2-hour online tutorials
- A strategic workplace improvement project, typically completed over 8–12 months
- A written multiple-choice exam and a final on-site project presentation

Delivery format

The programme combines interactive workshops, online tutorials and one-to-one project support. Participants apply Lean Six Sigma tools to a real workplace project throughout the programme and present their results at a final on-site session.

This programme is extremely practical in nature, infusing the black belt participants project throughout the training programme so that the participants are set up for success in driving several projects over the coming years. The sponsors also play a key role in this programme, ensuring the right project for their department is selected, is aligned to what matters most and the right participant is selected and supported throughout the project lifecycle.

PROGRAMME NAME

Core content | 1 of 3

WS 1 - Teams Call #1 Project Scoping 30 Mins per person	Introduction to business case for change and project discussion to establish scope with Sponsor
WS 2 - Teams Call #2 Project Finalisation 30 Mins per person	Finalising project with sponsor and participant
WS 3 Introduction	Introduction to Lean and Six Sigma Overview of DMAIC Method Seven wastes in Lean Five lean principles
WS 4 The Define Phase I	Introduction - The Define Phase Project Charter, quantifying business benefits, project planning Project sponsorship Meeting management SIPOC chart
WS 5 The Define Phase II	Business process mapping Change management Communication, team building and motivation
WS 6 - Teams Stage Gate Mentoring 30 Mins per person	Review each participant(s) project for Define and preparation completion with participant and sponsor ahead of internal stage gate review

PROGRAMME NAME

Core content | 2 of 3

WS 7 The Measure Phase	Introduction - The Measure Phase Introduction to Data Collection Plan Data Collection Gathering and Cleansing Analysing Data and presenting
WS 8 The Analyse Phase	Introduction - The Analyse Phase Five Why's Fishbone/Cause and effect diagram
WS 9 The Improve Phase	Introduction - The Improve Phase Future State Mapping FMEA Lean Tools and their application in the Improve Phase 5s, SMED, Mistake-Proofing, Kanban, Line Balance & Level Loading
WS 10 The Control Phase	Introduction - The Control Phase Departing Metrics Effective Handover Project review and critical success factors
WS 11 - Teams Project Mentoring 30 Mins per person	Review each participant project for work completed on measure, analyse, improve up to action plan.
WS 12 Statistics #1	Normal Distribution and Z-Tables Central Limit Theorem DPMO and link to Sigma Level

PROGRAMME NAME

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WS 13 Statistics #2	Other distributions used in Six Sigma Attribute Control Charts Hypothesis Testing Intro
WS 14 Statistics #3	Hypothesis Testing Means
WS 15 Statistics #4	What to do when data is not normal Comparing more than two means-ANOVA Correlation and Regression Designed experiments-DOE Basics
WS 16 - Teams	Tutorial - 2hrs x 2
WS 17 - Teams	Project Mentoring - 30mins per participant
WS 18 - Onsite	Final Black Belt Presentation Lecturer submit Grades and Participants Receive Award in line with academic calendar

This programme is a certified programme with Munster Technological University Or University of Limerick for which participants will have to complete a short term project and pass a written multiple choice examination.