



Crystal Lean Solutions

Training
Academy

Lean Six Sigma Yellow Belt



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DURATION:	2 Days
ACCREDITATION:	CPD Approved by Engineers Ireland
COURSE CODE:	1015

AIM:

The aim of the programme is to provide you with the knowledge and skills to lead a small improvement project using a recognised Lean and Six Sigma methodologies.

OBJECTIVES:

At the end of the course, learners will be able to:

- ✿ Understand the DMAIC improvement methodology and foundation Lean Six Sigma tools.
- ✿ Collect and analyse data using the appropriate Six Sigma tools.
- ✿ Apply DMAIC Methodology to an improvement project.

THIS PROGRAMME IS FOR:

This course is aimed at personnel who are new to Lean and Six Sigma and would like to find out how you can use it in your day-to-day operations. It is suitable to all roles including:

- ✿ Engineers, Operators, Technicians
- ✿ Quality, Analysts
- ✿ Managers
- ✿ Finance, HR, Supply Chain

PROGRAMME CONTENT:

Day 1: Introduction to Lean

- * Introduction to Lean and Six Sigma
- * Introduction to the 5 Lean Principles and benefits of Lean
- * Problem Statement
- * Process Mapping
- * Data Collection and Analysis
- * 8 Waste Analysis and Process improvement
- * Introduction to A3 problem solving
- * Application of Lean principles to a practical simulation

Day 2: Introduction to Six Sigma

- * Introduction to Six Sigma and its benefits
- * Overview of the DMAIC Methodology
- * Problem Definition
- * Data Analysis tools – Pareto, Run Chart, Histogram, Check sheets.
- * Root Cause Analysis – 5 Why and Cause and Effect
- * Action Type – Preventative, Corrective and Containment
- * Six Sigma in Action Practical Workshop

ASSESSMENT:

There is one assignment to complete for certification. Details of assignments are outlined below.

- ✿ Assignment 1: To complete an improvement project using process during training, demonstrating evidence of the application of tools and process covered during training and demonstrate an improvement.

GRADING:

Completion of project with an overall grading as follows, with a minimum expectation of 50% for certification.

Pass 50% to 64% (Demonstrated fundamental knowledge and understanding of course material)

Merit 65% – 79% (Demonstrated fundamental knowledge of course material and demonstrated ability to be able to apply in real-world situations)

Distinction: 80% - 100% Demonstrated deep understanding of the course material and application, being able to discuss the pros and cons of the course materials, theories and offer alternatives based on research.

PROGRAMME DELIVERY:

2 days classroom-based

TOTAL DURATION OF THE PROGRAMME INCLUDES:

2 Days training classroom-based
32 hours self-learning

CERTIFICATION CRITERIA:

- ✿ Attend all training days.
- ✿ Successfully complete an improvement project
- ✿ Project submitted via Moodle Learning Management System

CERTIFICATION BODY:

Crystal Lean Solutions

RECOGNITION OF PRIOR LEARNING (RPL):

Not Applicable

PRE-REQUISITE:

Not Applicable

OTHER COURSES OF INTEREST FROM THE CLS TRAINING ACADEMY:



- ✿ Lean Six Sigma Green Belt
- ✿ Professional Diploma in Leadership
- ✿ Effective Presentation Skills
- ✿ Change Management
- ✿ Professional Certificate in Project Management
- ✿ Human Error Problem Solving