



Crystal Lean Solutions

Training
Academy

Process Capability



Process Capability

DURATION:	0.5 Day
ACCREDITATION:	Crystal Lean Solutions
COURSE CODE:	1058

AIM:

The aim of the Process Capability programme is to provide participants with a clear understanding of how to assess and improve a process's ability to consistently meet specification requirements using statistical methods.

OBJECTIVES:

At the end of this programme, learners will be able to:

- ✿ Understand the concepts of variation and process performance.
- ✿ Calculate key process capability indices (Cp, Cpk, Pp, Ppk).
- ✿ Interpret capability results to drive improvement decisions.
- ✿ Identify the link between control charts and capability analysis.
- ✿ Apply capability analysis in real-world quality contexts.

THIS PROGRAMME IS FOR:

The Process Capability programme is ideal for professionals involved in quality assurance, manufacturing, and process improvement, including but not limited to:

- ✿ Quality Engineers and Technicians
- ✿ Process Improvement Specialists
- ✿ Operations and Production Managers
- ✿ Six Sigma Practitioners
- ✿ Auditors and Compliance Professionals

PROGRAMME CONTENT:

- ✿ Introduction to Process capability
- ✿ Introduction to Voice of the Customer and Voice of the Process
- ✿ **Variable Process Capability**
 - How to calculate Cp and Cpk and an overview of Pp and Ppk.
 - Assumptions of normality with Cp and Cpk
 - Overview of a variable process capability study
 - How to complete a variable process capability study
 - How to analyse results from a variable process capability study
- ✿ **Action Based Learning:** Complete a variable process capability study
- ✿ **Attribute Process Capability**
 - Introduction to an attribute process capability study
 - Attribute data: Binomial or Poisson
 - Overview of an attribute process capability study
 - How to complete an attribute process capability study (using no of defects)
 - How to analyse results from an attribute process capability study
- ✿ **Action Based Learning:** Complete an attribute process capability study

ASSESSMENT:	N/A
GRADING:	N/A
PROGRAMME DELIVERY:	Classroom Based (Online option available)
TOTAL DURATION OF THE PROGRAMME INCLUDES:	Half Day
CERTIFICATION CRITERIA:	Attendance at half day of training
CERTIFICATION BODY:	Certificate of Attendance
RECOGNITION OF PRIOR LEARNING (RPL):	N/A
PRE-REQUISITE:	N/A

OTHER COURSES OF INTEREST FROM THE CLS TRAINING ACADEMY:



- ✿ FMEA
- ✿ MSA
- ✿ Gauge Study Analysis
- ✿ A3 Problem Solving
- ✿ Human Error Problem Solving
- ✿ Professional Certificate in Project Management
- ✿ Professional Diploma in Project Management
- ✿ Professional Diploma in Leadership