

**Toyota Advanced Problem Solving Tools  
Six Sigma - Green Belt  
Training Programme Outline**

**Summary:** A Green Belt level programme designed to increase skills and confidence in advanced Problem Solving and Process Improvement in a team-based environment. The curriculum builds on Toyota's established methods and tools and links to the Black Belt programme which adds further tools for complex problem resolution. The format of the programme allows delegates to apply their learning to live projects and to take advantage of coaching support enabling benefits to be delivered and a first project to be completed within the timeframe of the programme. Delegate's managers are encouraged to join the Launch on the morning of day1 as well as the mid and final project reviews to help ensure maximum success. Assessment will be based on passing an open exam paper and presentation of a completed project to demonstrate application of learning.

**Aimed at:** Section Managers and Principals

**Prior qualifications/experience:** Must have completed one TBP project

**Duration:** 7 days including 2 project sharing/review days

**Format:** 1 day each month for 6-8 months

**Software Specification:** The programme is built around Minitab and access to this is essential

**Objectives:** By the end of the programme, participants will be able to:

- Confidently apply advanced problem solving tools to support problem resolution/process improvement
- Monitor own progress in the completion of improvement projects

**Day 1 – Launch, Overview, Clarify the Problem**

Problem Statements  
Operational definitions  
SIPOC  
CTS Tree  
Graphical Analysis Tools:  
Tally chart  
Run Chart  
Histograms  
Box Plots  
Scatter Plots  
Minitab introduction

**Day 2 – Breakdown the Problem and Set a Target**

IS/IS Not  
P-Diagram  
Cause and Effect Matrix  
Data Variation  
Data Collection Plan  
MSA  
Process Capability

**Day 3 – Analyse Root Causes**

Normality Testing  
Hypothesis Testing  
Regression Analysis  
ANOVA

**Day 5 – Develop Counter-measures, See Counter-measures through, Evaluate Results and Processes, Standardise Successful Processes**

DOE  
Benchmarking  
Affinity Diagrams  
Pay-Off Matrix  
Process Mapping  
Control Plans  
Control Charts  
SOPS and Audits  
Error Proofing  
Visual Controls