

ONLINE SIX SIGMA GREEN BELT MANAGEMENT TRAINING GUIDE

A GUIDE OUTLINING YOUR ROLE TO HELP INDIVIDUALS COMPLETE THE ONLINE SIX SIGMA GREEN BELT CERTIFICATION

This guide will help you as the manager provide the support and accountability people in training need to apply what they are learning.

Scan this guide to quickly learn the main points of the training. Then, invest more time to debrief with each individual. Each debrief section includes questions to ask and experiences to share to help apply the learnings.

To your sustained success,

Kirby Sneen, President & CEO Manufacturers Alliance



GETTING STARTED

1//	Prepare your answers in each "Management Debrief" section.						
2	workshop with the person in cert	Schedule a 15-minute meeting after each workshop with the person in certification to cover the management debrief section together.					
3//	Document the days your team me training below:	ember will be in					
	Define & Measure:						
	Measure & Analyze:						
	Analyze & Improve:						
	Improve & Control:						

Certification Completion Deadline:

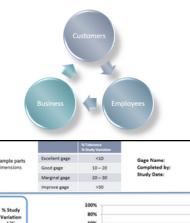


THE FIRST WORKSHOP EPINE C. RAEACIIDE

DEFINE & MEASURE

The purpose of this workshop is to learn that without a standard there can be no improvement and if you don't measure it, you don't really understand it.

Individuals will develop their understanding of the DMAIC problem-solving process, enhancing their ability to define customer requirements and identify critical processes and problems. They will learn to select and scope improvement projects, define inputs and outputs with greater precision, and develop comprehensive project charters. Participants will gain advanced skills in data collection planning, ensuring measurement accuracy, and utilizing various types of data and metrics effectively.



			% Tolerance % Study Warlat	•		
Part II/ Name: Feature Name: Feature Tolerance:	Sample parts Dimensions	Excellent gag	e <10	Gage Name:	Digital Caliper	
		Good gage	10 - 20	Completed by:	Six Sigma Green Belt Certification Class	
		Marginal gag	e 20 – 30	Study Date:	Today	
		Improve gag	age >30			
Summary Results Total Gage R&R Repeatability Reproducibility Part-to-Part	% Study Variation 13% 0% 13% 99%		100% 80% 60% 40% 20% 0%	otal Gage Repeatability R&R Reprod	= % Study Variation = % Tolerance Part-to-Part	
Gage R&R						
		Variance	%	Pie Chart -	Variance Components	
Source		Component	Contribution			
Total Gage R&R		0.01802	2%	086		
Repeatability		0.00001	0%		T Constability	
Reproducibility		0.01801	2%		 Repeatability 	
Appraiser		0.00000	0%		Reproducibility	
Appraiser-Part		0.01801	2%	98%		
		1.11174	98%	341	- Part-to-Part	
Part-to-Part Total Varation		1.12976				

Project Name:						
Team Leader:			Te	day's Date:		
Sponsor:			PI	anned Start Dat	te:	
Area or Process Impacted:				timated Time to implete:	,	
Element	Description			Project Inform	ation	
1. Problem Statement	Specifically and clearly defines the problem (including Scope).					
2. Commitment Statement	Quantify the opportunity using SMART objectives. Include consideration of Benefits to Customers, Business Impact and expected deliverables. (Improve "X" to "Y" by "when").					
3. Metrics	What are the metrics that will be impacted and need to be measured?	Metric De	scription	Baseline / Current	Goal / Commitment	Results
	Examples: Sigma value, defects, yield, capacity, cycle time, closure rate, etc.					
4. Team Members	Identify team members required to be successful.					
5. Knowns & Unknowns	Identify any risks, constraints, critical assumptions or other significant resource needs and how they will be addressed.					
6. Milestones	What needs to be done by when in order to meet the project deadline.	Action	Owner	Due E	Date	Completed
	Judici aranga		_	-	-	

MANAGEMENT DEBRIEF:

Ask: How will you use the DMAIC process to identify a Project?

Share: One example of a Six Sigma Green Belt Project you have lead/been part of and the role Define and Measure played in its success

Ask: What metrics did you identify as critical for measuring the performance of your chosen process?

Ask: How did you ensure the accuracy and reliability of your data collection?

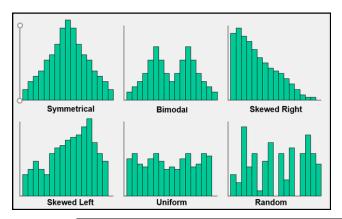


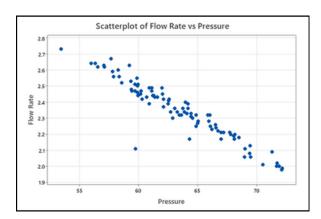
THE SECOND WORKSHOP

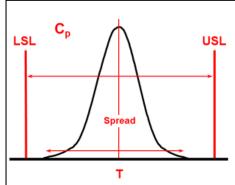
MEASURE & ANALYZE

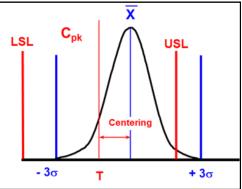
The purpose of this workshop is to expand on the measurement tools from the 1st workshop and learn advanced analytical techniques to understand the root causes of problems, avoiding the traps of assuming correlation means causation and confusing activity with results

Participants will develop their critical thinking skills with statistical tools and concepts such as Variation Measurement, Scatter Plots, and Cp/Cpk









MANAGEMENT DEBRIEF:

Ask: Which analytical tool did you find most useful in identifying the root cause of a problem? Why?

Share: 1 example of a Six Sigma Green Belt Analytical Tool you have used, and how it helped

Ask: How do you differentiate between correlation and causation?

Ask: What Topic did you select for your Certification Application Project?

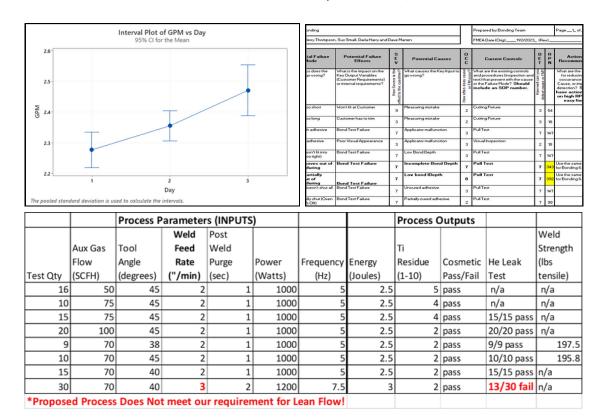


THE THIRD WORKSHOP

ANALYZE & IMPROVEMENTS

The purpose of this workshop is to to expand on the analysis tools from the 2nd workshop, and identify sustainable improvement.

Individuals will become competent in regression analysis, ANOVA and Design of Experiments (DOE) They will also develop and implement robust solutions using tools such as Failure Mode and Effect Analysis (FMEA)



MANAGEMENT DEBRIEF:

Ask: What 2 sources of Variation did you identify and what methods did you use to do so?

Share: 1 improvement tool you've used and the impact it had

Ask: What area did you identify for improvement?

Ask: When and why would you perform a Design of Experiments (DOE)?

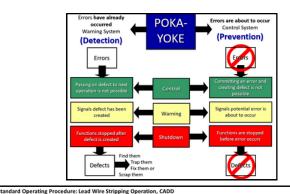


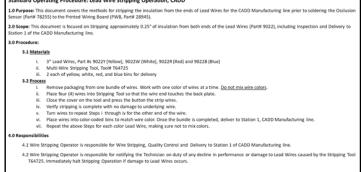
THE FOURTH WORKSHOP

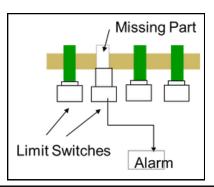
IMPROVEMENTS & CONTROLS

The purpose of this workshop is to expand on the improvement lessons of the 3rd workshop and drive the sustainable improvement, making it a habit rather than an act, ensuring that new standards are maintained over time.

Individuals will be skilled in creating detailed control plans and using them to maintain improvements. This includes utilizing mistake proofing (Poka-Yoke) and developing and deploying standard operating procedures to monitor and control processes. Participants will also learn to foster a culture of continuous improvement by recognizing and encouraging new behaviors and applying change management principles to sustain gains.







CON	TROL PLAN 4Ws				Rev:	A Date:
Part #: 19976 Specification/Drawing: Tubing Adapter Mfg Approval:						
Proce	cess/Part Name: Adapter Bonding Process Sponsor Appro		al: Dave			
STEP #	PROCESS STEP/ DESCRIPTION	SPECIFICATION	MEASUREMENT	SAMPLING/ RESPONSIBILITY / FREQUENCY	CONTROL METHOD	OUT OF CONTROL PLAN (OCAP)
1	Cut tubing to length	24 ± .5 inches	Fixture 264-C	Quality, 3X/shift	Laser Mic, Time/Date/Value	Report OOT Parts to Operator & Engineer daily
2	Apply Adhesive to Tube	7 grams minimum	Applicator Equipment	Operator, Start of Day, 5 samples	Calibrated scale S- 22, Record Daily test Values	Technician for Applicator PM
3	Put Cap in Bond Fixture, insert tube	0.8 + 0.0/-0.08"	Calibrated Probe	Operator, 6X/day or as needed	Record all Measurements when made	Contact Technician/Engineer
4	UV Cure Adhesive	4 minutes	Oven Timer	Technician, Check Monthly	Preventive Maintenance & Calibration	Equipment Lockout
5	Pull Test	20 pounds tensile	Pull Tester PT-3A	Technician, Check Monthly	Preventive Maintenance & Calibration	Equipment Lockout

MANAGEMENT DEBRIEF:

Ask: Have you completed a 4 W's plan? (homework assignment)

Share: 1 improvement and 1 control tool you've used and the impact each had

Ask: What step are you at on your Certification Application Project?

Ask: When will you take the test for this certification?



THE MANAGERS POST-TRAINING

3-STEP SUSTAINMENT PLAN

People attend training and experience a burst of better performance and more effective working relationships. The problem is that this doesn't last. Avoid the starts and stops by implementing a sustainment plan.

STEP 1: DEBRIEF

Review their Green Belt Project, discuss what went well and what didn't. Ask what you can do to help them continue to practice what they learned.

STEP 2: RECOGNITION

Find three opportunities over the next 60 days to recognize how they have become a better problem solver. For example, if you observe them quantifying a gap in performance, recognizing there is no standard, or determining the root cause of the issue, recognize them for it. The key here is to connect the learning from the training to their behavior change.

Over the next 90 days, meet with them three times so you can ask them how you can help them continue to apply what they learned.

STEP 3: CONTINUING EDUCATION

Identify one educational resource for continued learning and schedule time for them to consume it. Consider Podcasts, Webinars, and Peer Groups as ways the learning can continue. A few resources we suggest include:

- The Manufacturers Alliance Podcast
- Educational Webinars
- Benchmarking Peer Groups

To your sustained success,

Kirby Sneen, President Manufacturers Alliance

