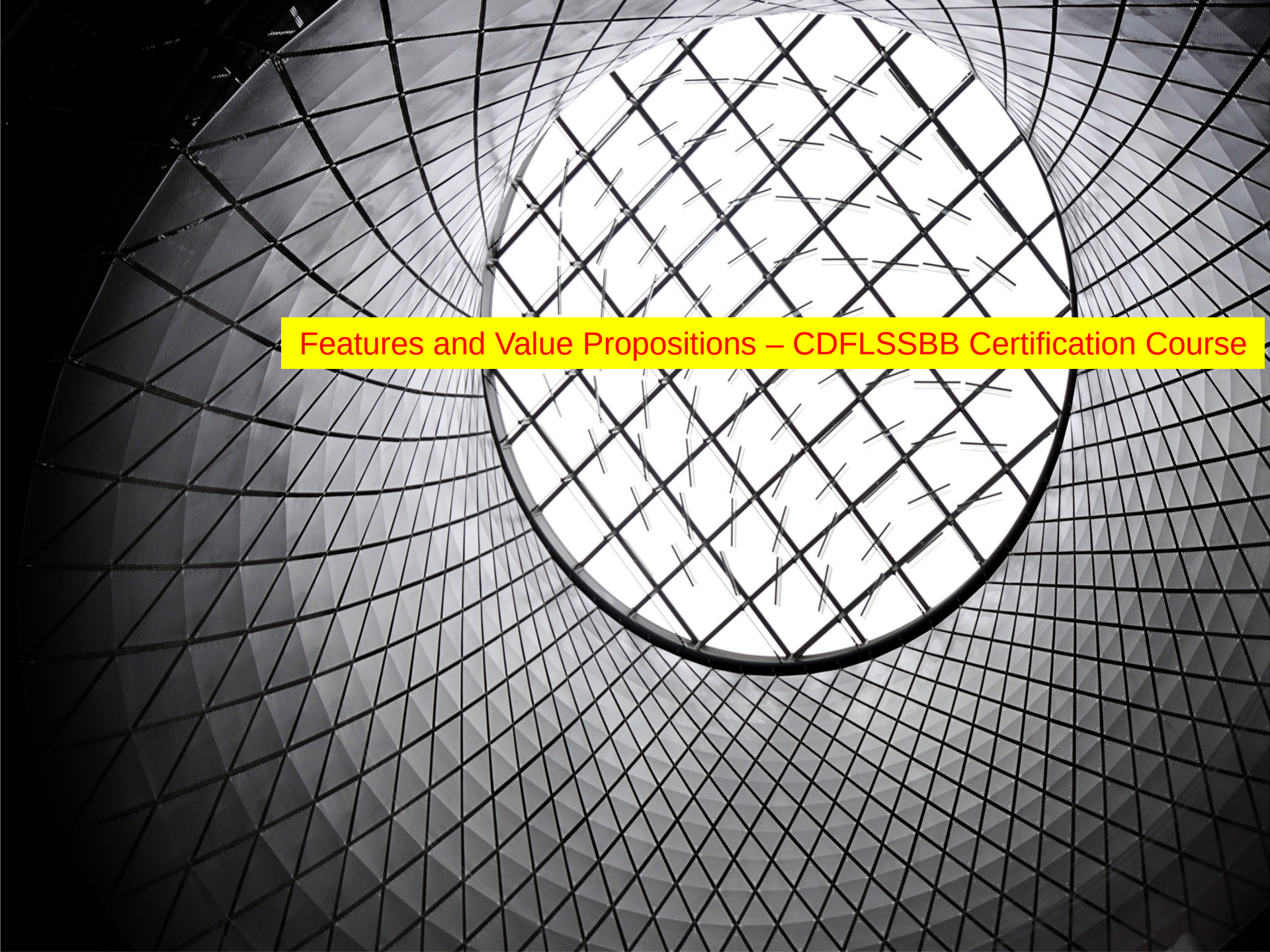
Features and Value Propositions – CDFLSSBB Certification Course

Certified Design for Lean Six Sigma Black Belt (CDFLSSBB) Training & Certification

Topics:

1. Benefits of CDFLSS BB certification
2. Curriculum Overview
3. IDDOV Phases and features
4. Industries and corporations using DFSS
5. Template review

What We do?

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Certified Design for Lean Six Sigma (CDFLSSBB) Black Belt IDDOV Methodology Training/ Certification

Certified Design for Lean Six Sigma Executive Master Black Belt (CDFLSSEMBB) Training and Certification;

DFSS Tools/Templates

Six Sigma DMAIC Methodology

Lean Enterprise Continuous Improvement Tools & Templates

Black Belt Training will enable you to:

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- Manage multiple projects and ensure their alignment to meet organizational goals
- Coach others to complete successful projects that deliver significant, sustainable results
- Communicate + influence people at all levels of your organization to manage change effectively
- Understand the why, what and how of statistical analysis tools

Course Major Features / Benefits...

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Over 100 hours of Web Based Training

Access to Course for 365 days

Certificate with trackable number

Dedicated Coach / Mentor for a year to help you with course

Course Major Features / Benefits...

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Few Select Downloadable Summaries Material in PDF

Few Downloadable Excel Tools & Templates

Multiple Case Studies; Bonus: Webinars and Lean Case studies

Expert Reference for Job (limited to 1)

Black Belt Certification includes

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- Exam: 80 multiple choice questions (unlimited re-takes)
- Simulated Project Completion
- PDF Certificate to add to your LinkedIn profile
- Membership to our Black Belt Certified Group on LinkedIn

SAMPLE

DFSS Institute, LLC

SAMPLE

Hereby Grants that

sample

YOUR NAME

Has Achieved

CERTIFIED DESIGN FOR LEAN SIX SIGMA BLACK BELT (CDFLSSBB) CERTIFICATION

by successfully demonstrating thorough understanding of all aspects of the DFSS IDDOV methodology in acc ce with Design for Six Sigma Principles for Product development, Process im ent, Lean enterprise and Technology development.

May 3, 2012

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SAMPLE

yed
& CTO
SS Institute, LLC
United States of America

Sameena Kul es
President
DFSS I LLC
Uni s of America

SAMPLE

sample

Certification Number: 122448

Course Major Features / Benefits...

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Design for Six Sigma (IDDOV) Methodology	Lean Techniques	Six Sigma (DMAIC) Techniques	Minitab Techniques
VSM (Value Stream Mapping) Techniques	Continuous Improvement Techniques	Problem Solving Techniques	Exam and Simulated projects
Reliability Techniques	DVP&R	FMEA	DFM/DFA
	Organizational Planning & Deployment	Team Management	

Helps you with Problem Resolution

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Assessing the scope and complexity of the problem

Determining the best tools and methodologies to address the issues quickly and efficiently

Providing process improvement program design and implementation

Leading the process improvement project to resolution

Ensuring that the solutions are achievable, measurable and repeatable for continued success

Helps you with Robust Optimization

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Robust Optimization is a method to improve robustness using low-cost variations of a single, conceptual design.

The benefits of Robust Optimization include

- faster product development cycles;
- faster launch cycles;
- fewer manufacturing problems;
- fewer field problems;
- lower-cost, higher performing products and processes;
- and lower warranty costs.

Helps you achieve a culture of Quality, Productivity and Cost Effectiveness

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DFSS will help you achieve quantifiable process improvements to address product/process design and on ongoing operational needs

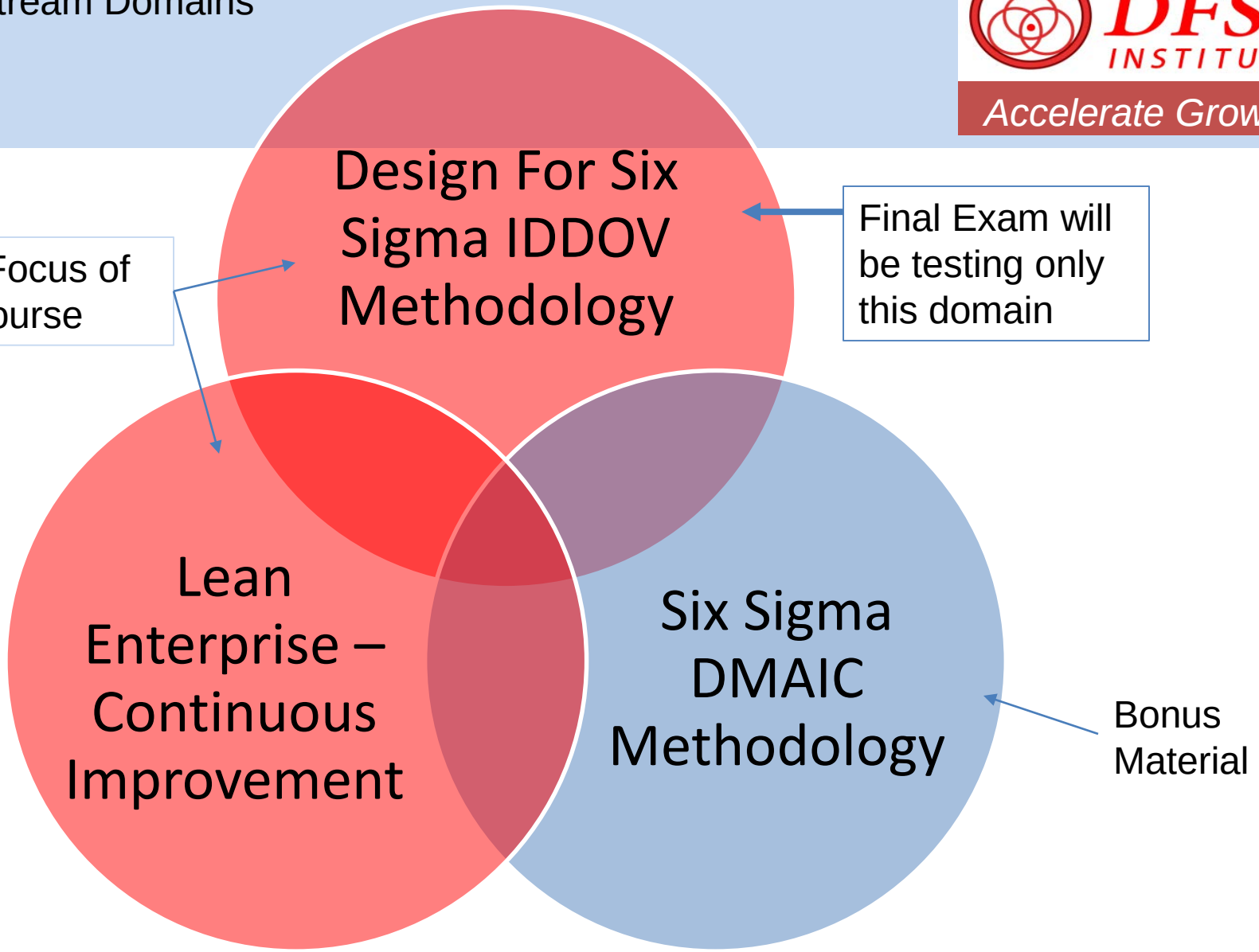
DFSS has successfully being applied in Electronics & Manufacturing, Pharmaceutical/Medical companies,

Applying powerful quality tools like House of Quality and Strategic Direction in their organizations for addressing and solving problems

Regardless of the Industry, the tools and techniques you will learn will help you provide value to the customer (internal & external)

Detailed Curriculum Overview

Value Stream Domains



After you register this is the screen that tracks your progress of course

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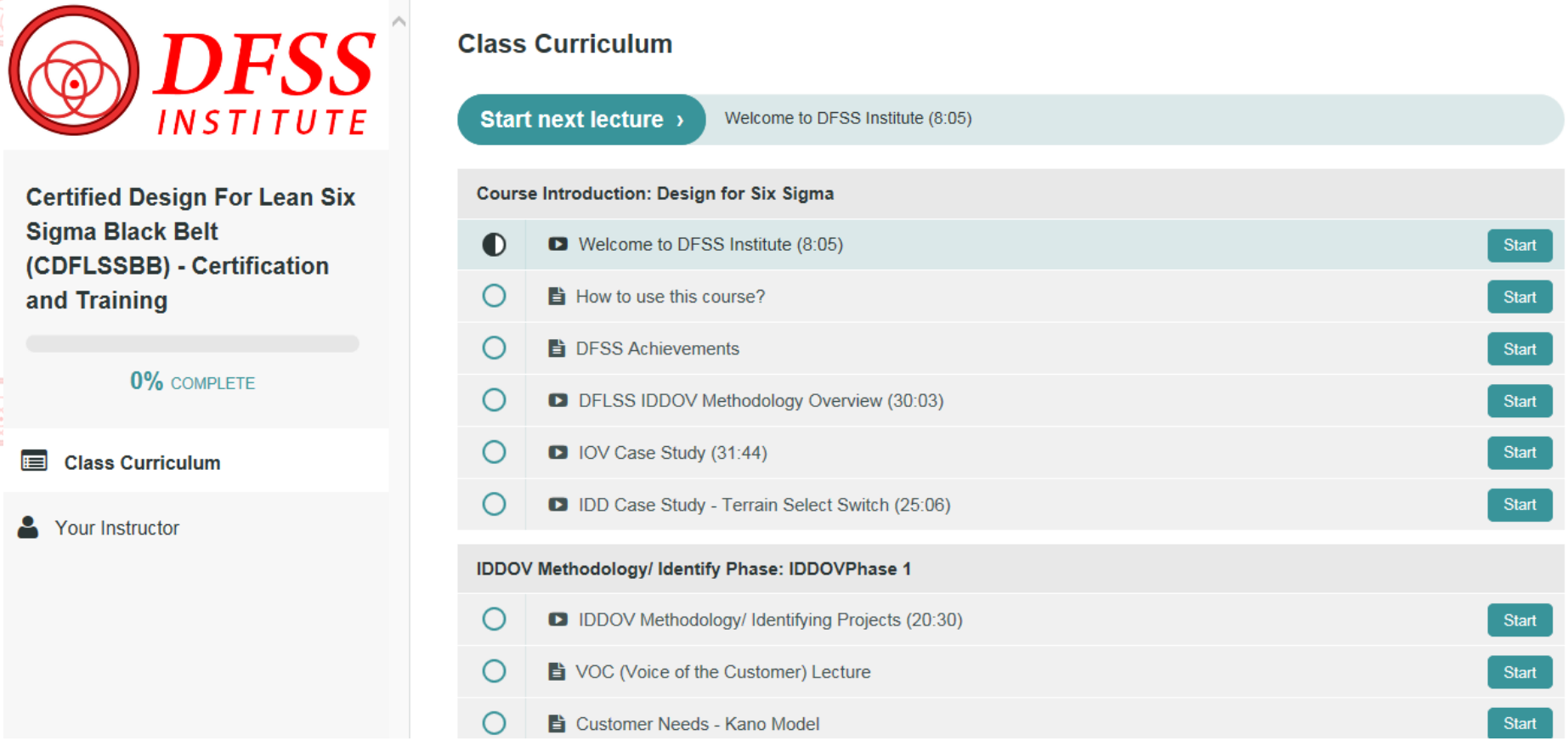

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Certified Design For Lean Six Sigma Black Belt (CDFLSSBB) - Certification and Training

0% COMPLETE

- **Class Curriculum**
- Your Instructor

Customer Needs - Kano Model	Start
Survey Analysis Lecture	Start
Affinity Diagram	Start

Defining Functional Requirements/ Function Map /SIPOC : IDDOV Phase 2

Functional Requirements Lecture	Start
SIPOC Tutorial	Start
New Lecture	Start
Process Excellence Tutorial with examples	Start
Process Projects Start File Demonstration Tutorial	Start
Process Project Case Study - Attitude Chart	Start
Process Mapping Tutorial	Start
Design Work Order - Process Project Case Study	Start
House of Quality (HOQ) Lecture	Start

CDFLSSBB Class Curriculum

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DFSS INSTITUTE

Certified Design For Lean Six Sigma Black Belt (CDFLSSBB) - Certification and Training

0% COMPLETE

Class Curriculum

Your Instructor

Develop Concept: IDDOV Phase 3

Design Concept Generation Lecture	Start
Function Map / Function Block Diagram Lecture	Start
Creativity and Innovation Tools Lecture	Start
Axiomatic Design Lecture	Start
Morphological Matrix, Pugh Matrix Lecture	Start
TRIZ Overview Lecture	Start

Taguchi Design of Experiment (Non-Dynamic and Dynamic): IDDOV Phase 4

Taguchi Non-Dynamic DOE Case Study	Start
Taguchi Dynamic DOE Case Study	Start
Design Optimization: Transfer Functions, P-Diagrams, and Robustness Lecture	Start
Robustness Case Study	Start
Robust Optimization Strategies Lecture	Start

CDFLSSBB Class Curriculum

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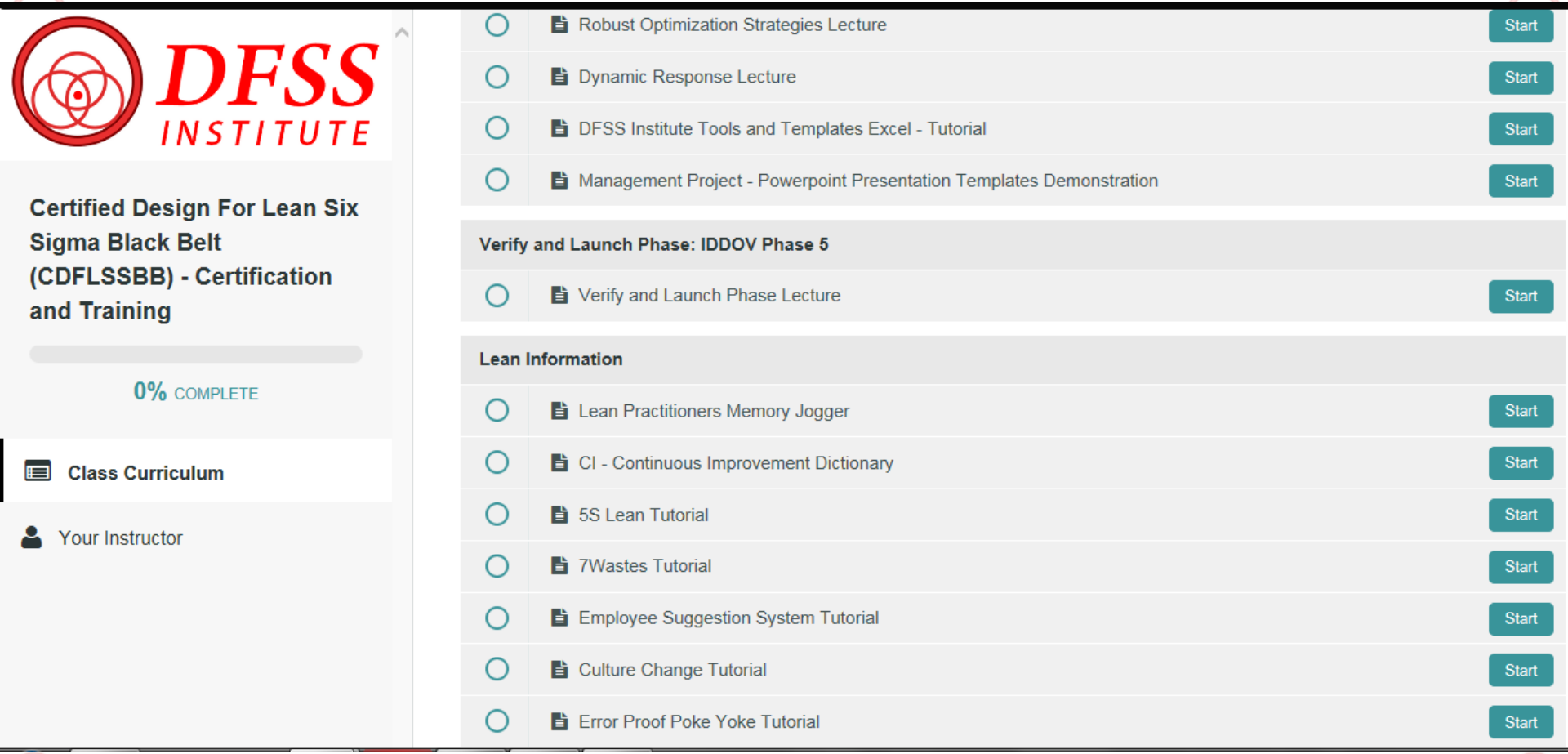

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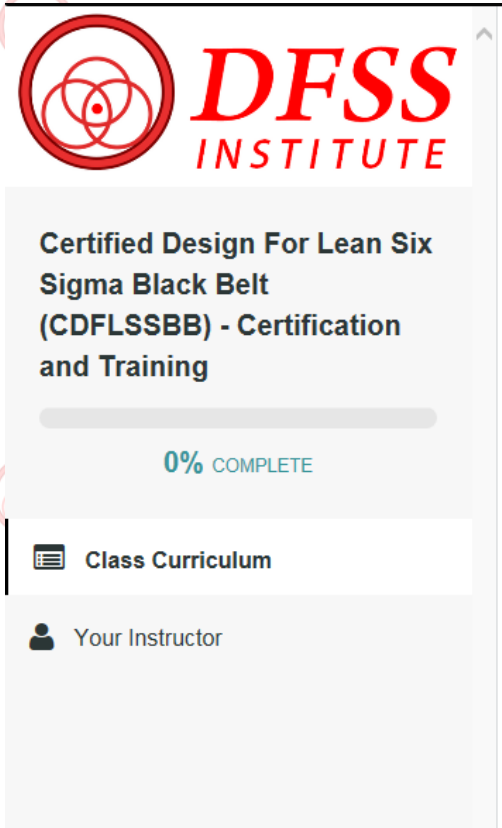

CDFLSSBB Class Curriculum

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Class Curriculum

Your Instructor

Next Steps

- Next Steps Lecture — Start

DFMEA, DVP&R, DFM/DFA IDDOV Phase 3

- Design Failure Modes Effects and Analysis Tutorial — Start

Robust Optimization for Nominal-the-Best (NTB) Response: IDDOV Phase 4

- Nominal-the-Best (NTB) Response Lecture — Start
- Smaller-the-Better (STB) Response Lecture — Start
- Larger-the-Better (LTB) Response Lecture — Start
- Robust Optimization for Classified Attribute Type Response Lecture — Start

Bonus Lectures

- Missing Data / Infeasible Data Lecture with Case Study — Start
- Standardized Signal to Noise Ratio Lecture — Start
- Orthogonal Arrays & Various Techniques Lectures — Start

CDFLSSBB Class Curriculum

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Class Curriculum

Your Instructor

Orthogonal Arrays & Various Techniques Lectures	Start
Robust Engineering For Software Lecture	Start
Robust Optimization by Computer Simulation Lecture	Start
One Way ANOVA Decomposition using Minitab: Lecture with Case Study	Start
Two Way ANOVA Decomposition using Minitab: Lecture with Case Study	Start
T Method Lecture	Start
Nominal the Best with Indicative Factor Lecture	Start
On-line Quality Engineering Lecture with Case Study	Start
System Behavior Testing (SBT) - Case Study	Start
Techniques to Modify Orthogonal Arrays: Dummy Treatment, Multi-level : Lecture with Case Study	Start
Weibull Analysis for Reliability Warranty Tutorial	Start

Final Exam for Certification

Final Exam for Certification	Start
DFSS IDD Project Simulated Case Study Exercise for Certification	Start

CDFLSSBB Class Curriculum

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Certified Design For Lean Six Sigma Black Belt (CDFLSSBB) - Certification and Training

0% COMPLETE

Class Curriculum

Your Instructor

System Behavior Testing (SBT) - Case Study	Start
Techniques to Modify Orthogonal Arrays: Dummy Treatment, Multi-level : Lecture with Case Study	Start
Weibull Analysis for Reliability Warranty Tutorial	Start
Final Exam for Certification	
Final Exam for Certification	Start
DFSS IDD Project Simulated Case Study Exercise for Certification	Start
DFSS IOV Project Case Study Exercise For Certification	Start
Construct Quality Loss Function: IDDOV Phase 4 - MBB Level	
Quality Loss Function Lecture	Start
Tolerance Design Using Quality Loss Function Lecture	Start
Robust Assessment: IDDOV Phase 4	
Robust Assessment Lecture	Start

CDFLSSBB Class Curriculum

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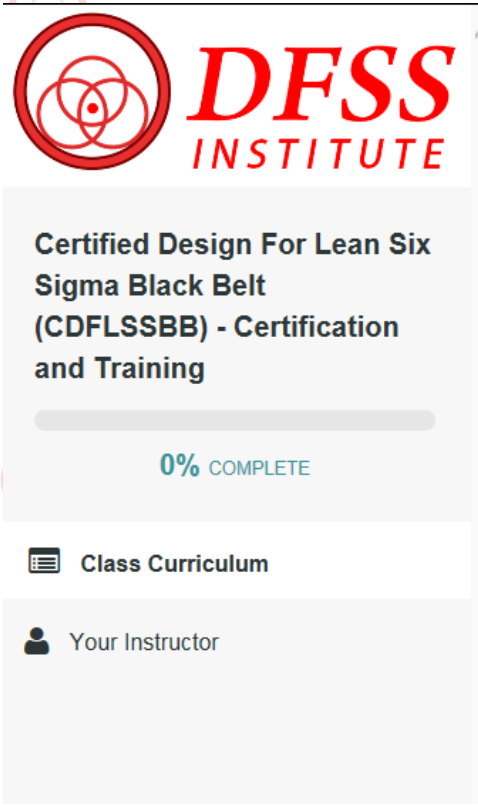

Features for Organizations

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Next few slides we will look at the five phases of the DFSS IDDOV methodology

Overview of 5 phases of DFSS IDDOV Methodology

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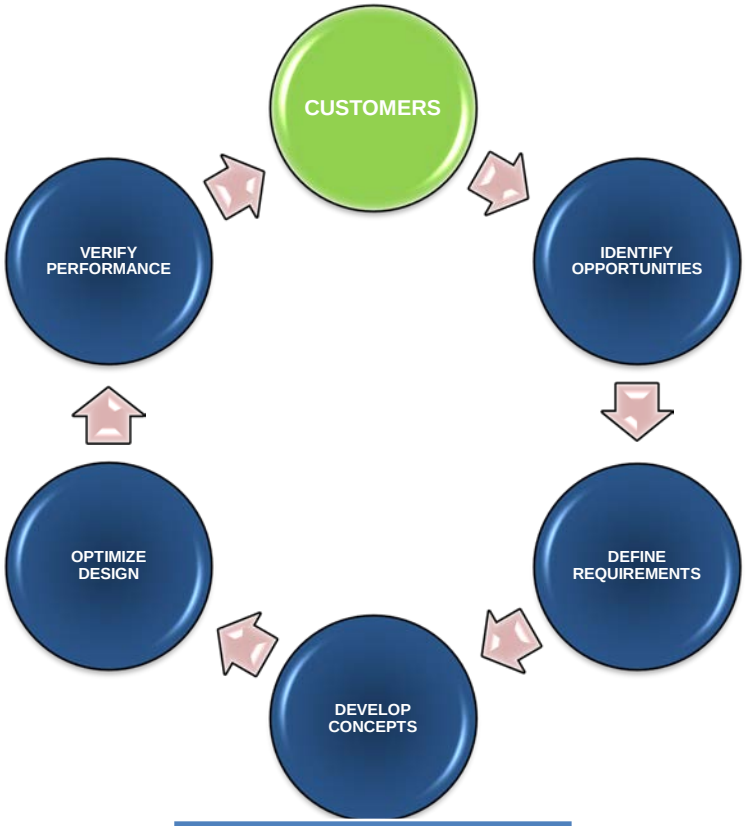
CUSTOMERS

IDDOV IS A CLOSED LOOP PROCESS THAT STARTS AND ENDS WITH CUSTOMER



IDENTIFY OPPORTUNITIES

- Identify business case
- Create project charter / team / project plan

DEFINE REQUIREMENTS

- Define customer requirements
- Translate customer requirements to engineering requirements
- Translate engineering requirements into functional requirements

DEVELOP CONCEPTS

- Generate and evaluate concepts
- Select concept
- Review DFMEAs

OPTIMIZE DESIGN

- Optimize design for robustness (PD –Parameter Design)
- Optimize Tolerance (TD – Tolerance Design)

VERIFY PERFORMANCE

- Verify Product Performance (DVPR)

Identify Opportunity Elements (Applicable for both Product / Process Projects)

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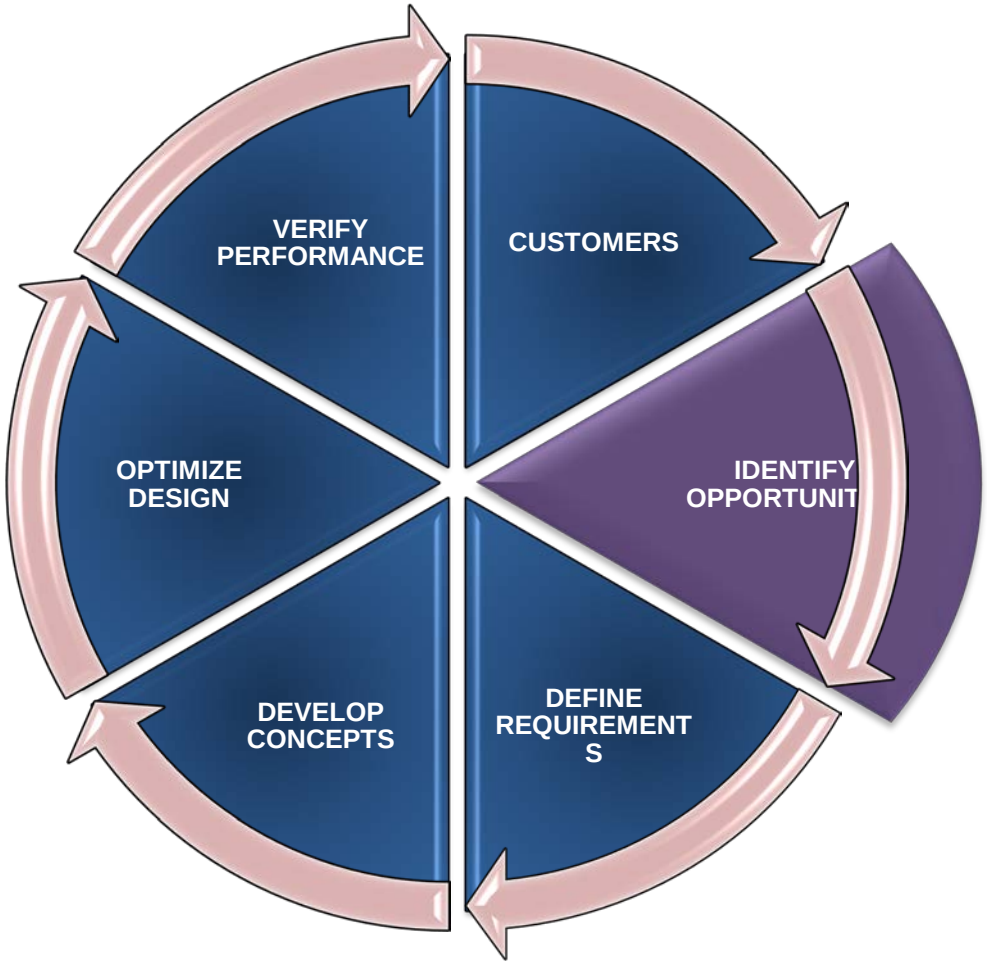
Understand why this will help the customer and the business



Identify business case	Create project charter / team / project plan

Actions taken in Identify Phase (Applicable for both Product / Process Projects)

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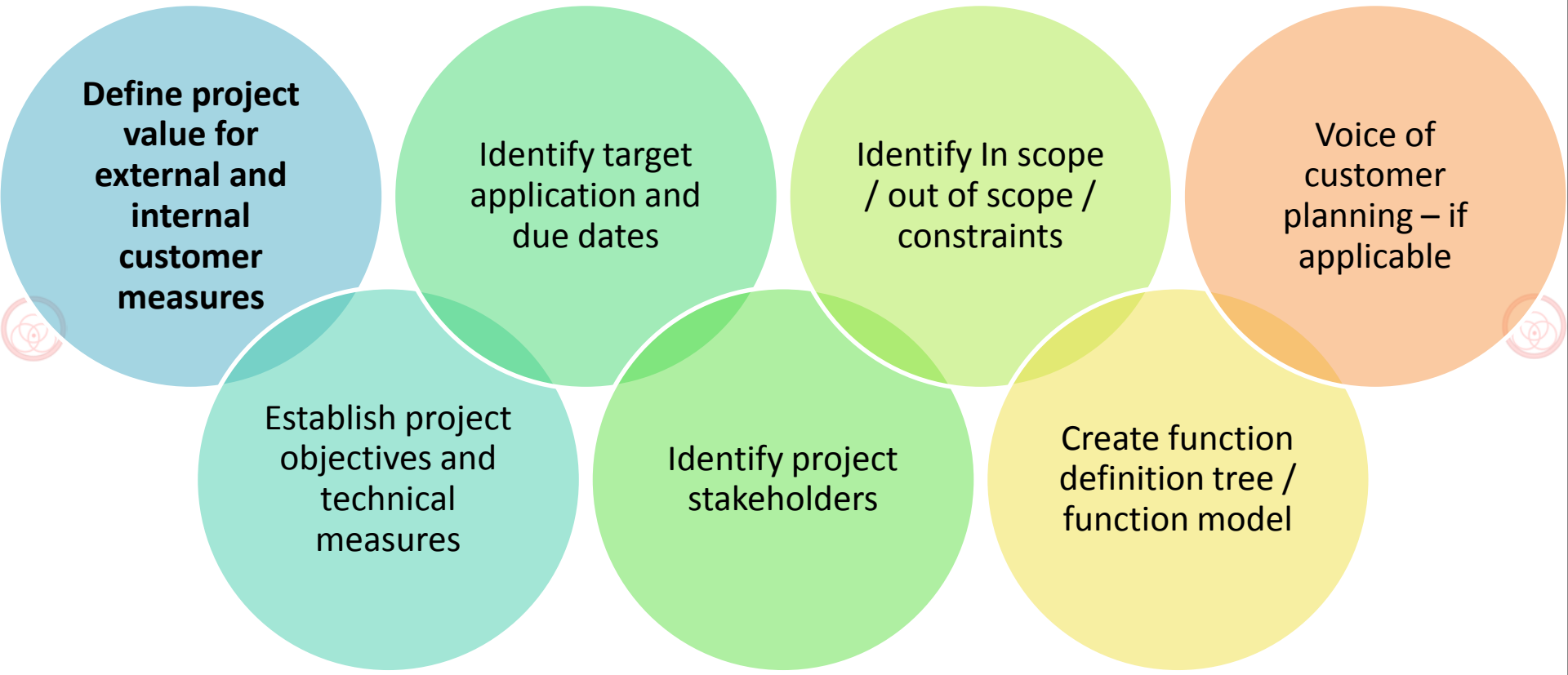

TOOLS AND METHODS FOR IDENTIFY PHASE (Applicable for both Product / Process Projects)

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Project charter	In-scope / out-scope diagram	Project plan
SIPOC (for process projects)	Function and component diagrams	Customer surveys and data

2. DEFINE REQUIRMENTS (Applicable for both Product / Process Project)

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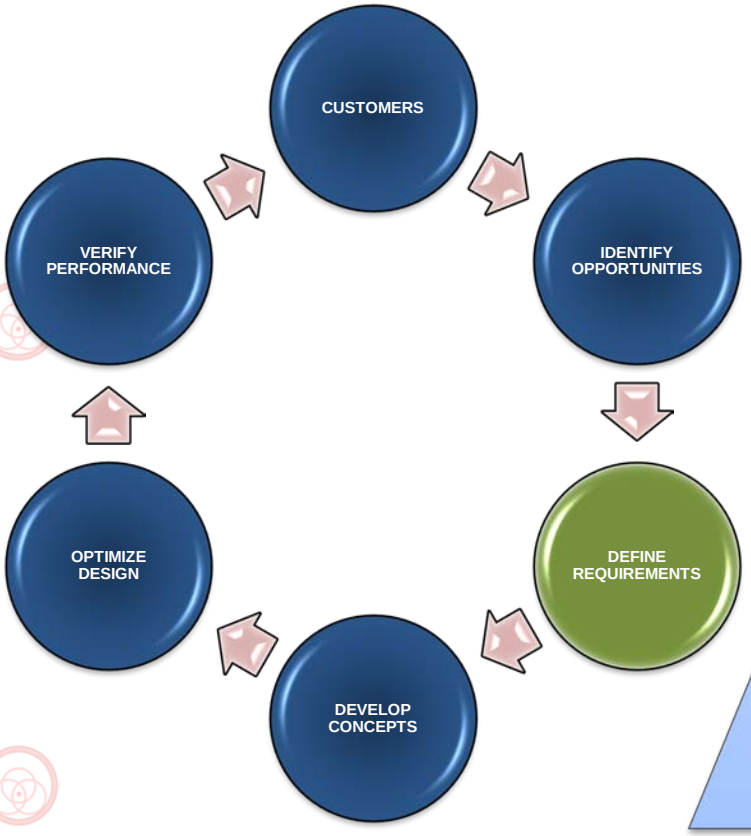
Understand what the customer wants and how the product must perform to meet those wants



Define customer requirements

Translate customer requirements to engineering requirements

Translate engineering requirements into functional requirements

Actions taken in Define Phase (Applicable for both Product / Process Projects)

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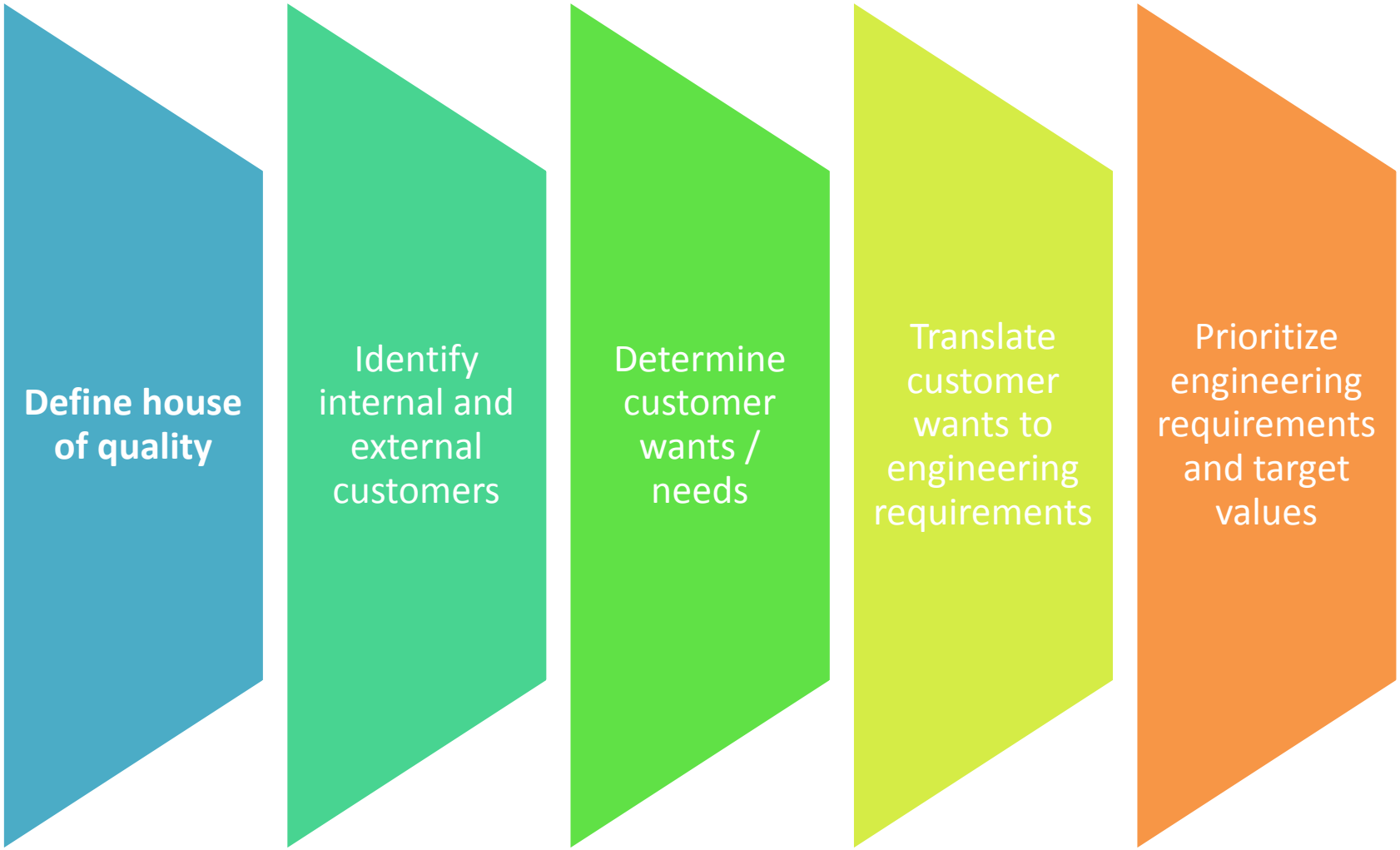

TOOLS AND METHODS FOR DEFINE PHASE (Applicable for both Product / Process Projects)

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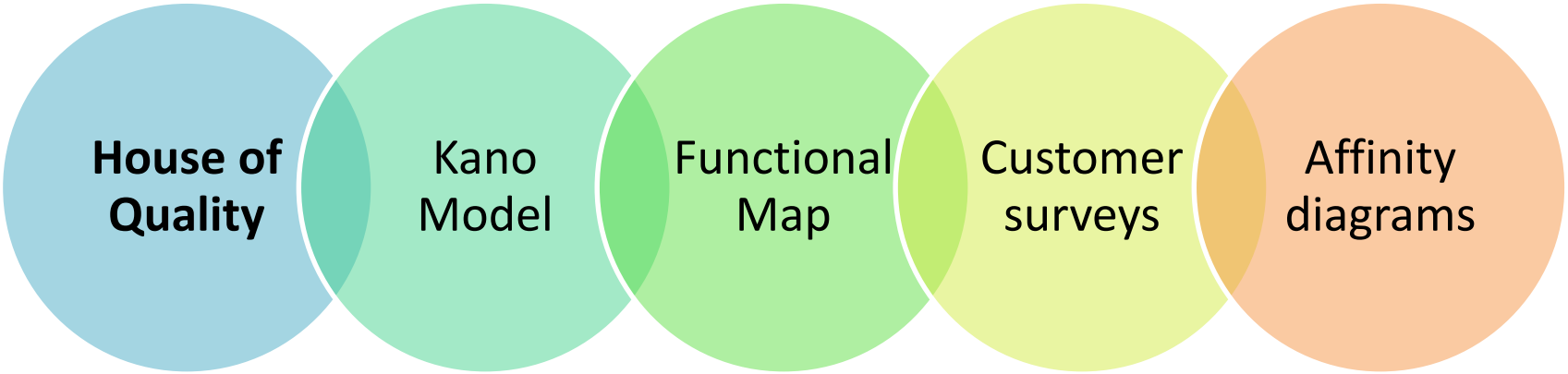

3. DEVELOP CONCEPTS (Applicable for both Product / Process Projects)

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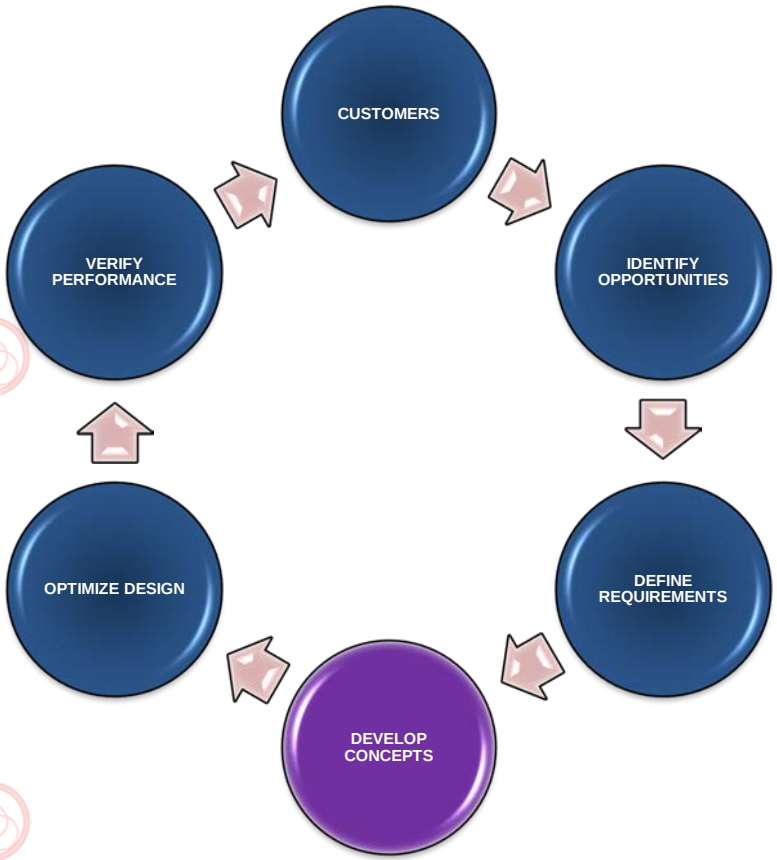
Understand the concepts that can meet the customer wants and generate the “best” concept.



DEVELOP CONCEPTS
Generate and evaluate concepts
Select concept
Review FMEA

Actions taken in Develop Phase (Applicable for both Product / Process Projects)

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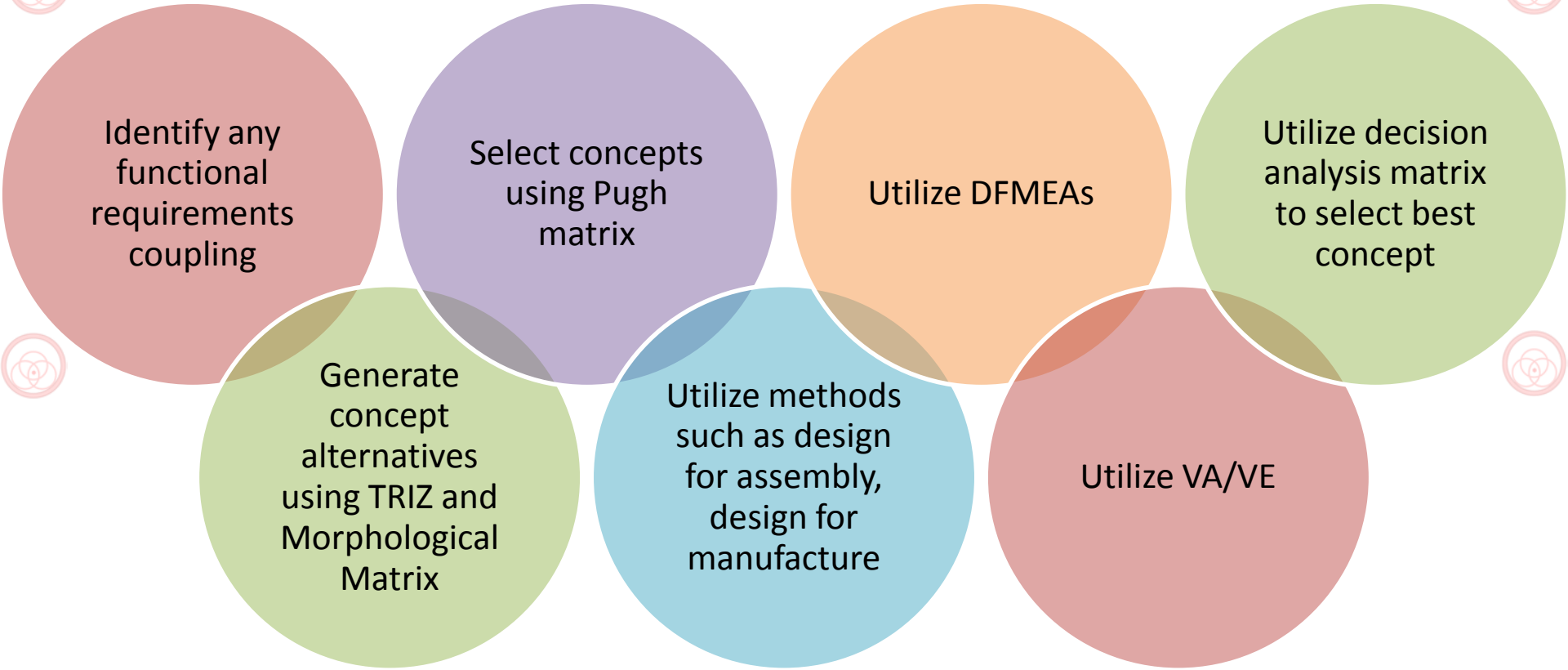

Tools and Methods for DEVELOP Phase (Applicable for both Product / Process Projects)

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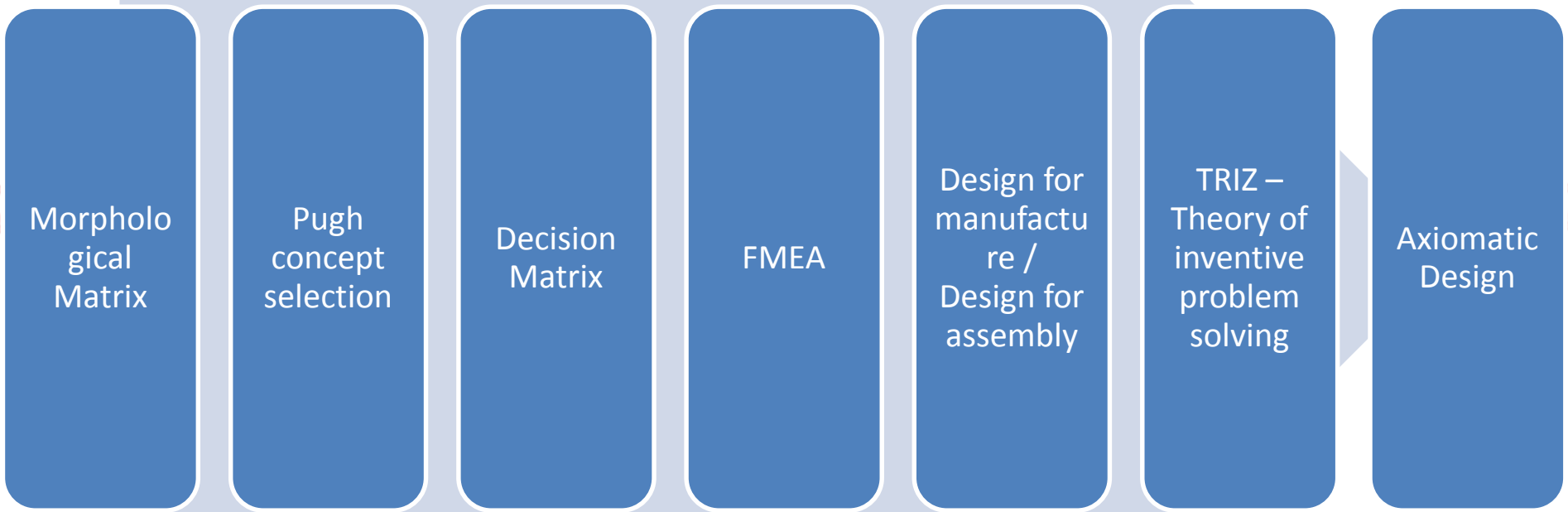

4. OPTIMIZE DESIGN (Applicable for Product Projects)

Find the Robust nominal design settings of the concept that best functions in the customer's hands.

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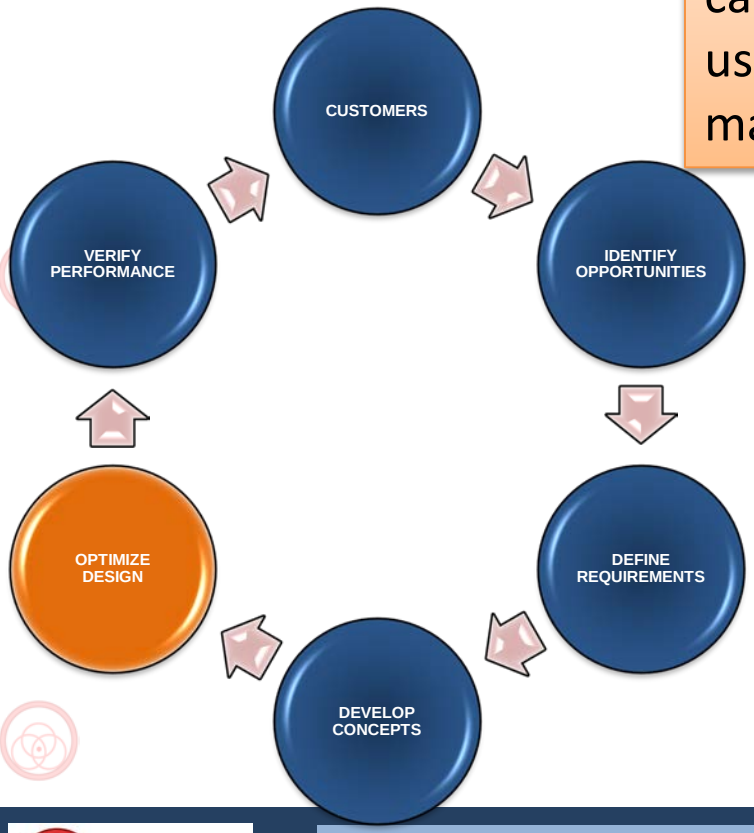
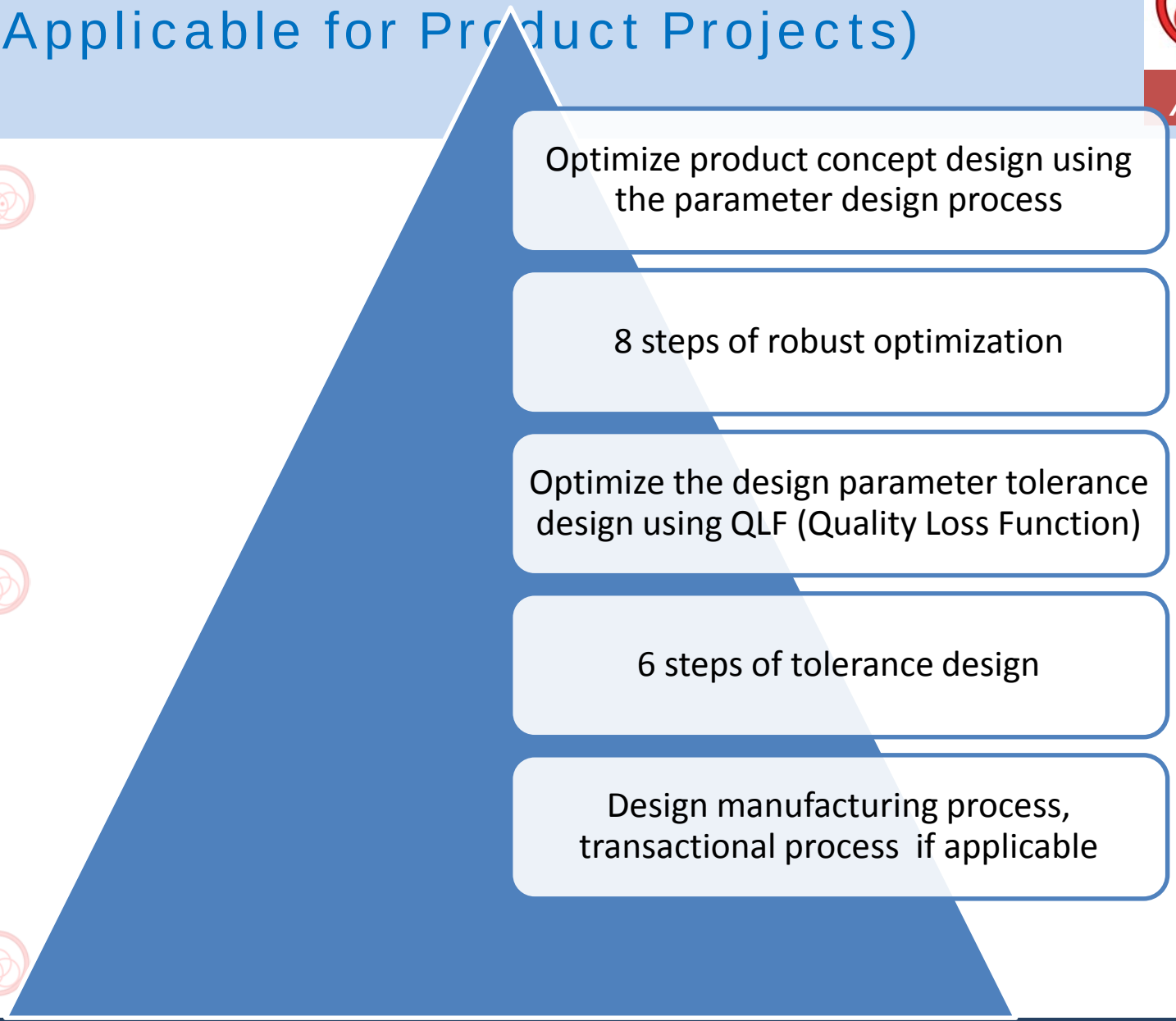
Robustness is "the state where the technology, product, or process is minimally sensitive to factors causing variability (either in the manufacturing or user's environment) and aging at the lowest unit manufacturing cost."

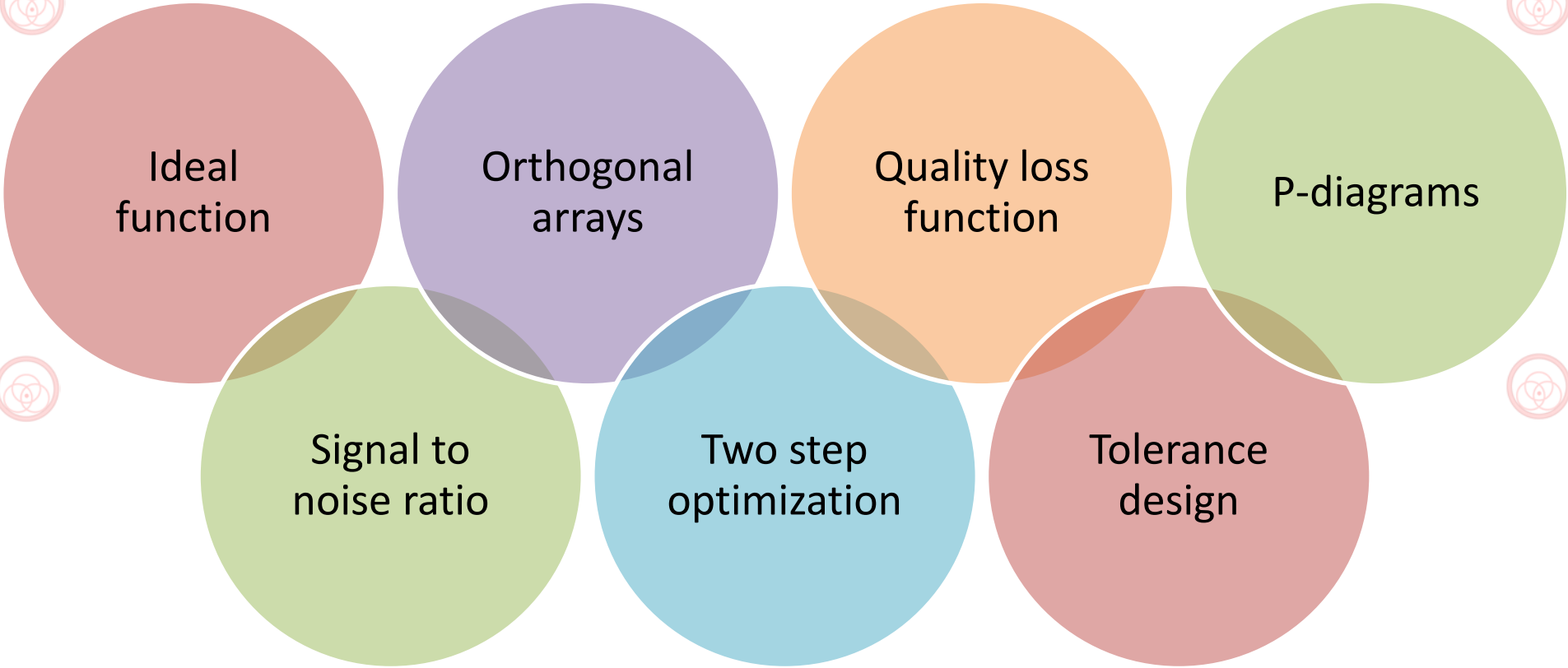


OPTIMIZE DESIGN
Optimize design for robustness (PD – Parameter Design)
Optimize Tolerance (TD – Tolerance Design)

Actions taken in Optimize Phase (Applicable for Product Projects)



Tools and Methods for Optimize Phase (Applicable for Product Projects)



5. VERIFY PERFORMANCE (Applicable for both Product / Process Projects)

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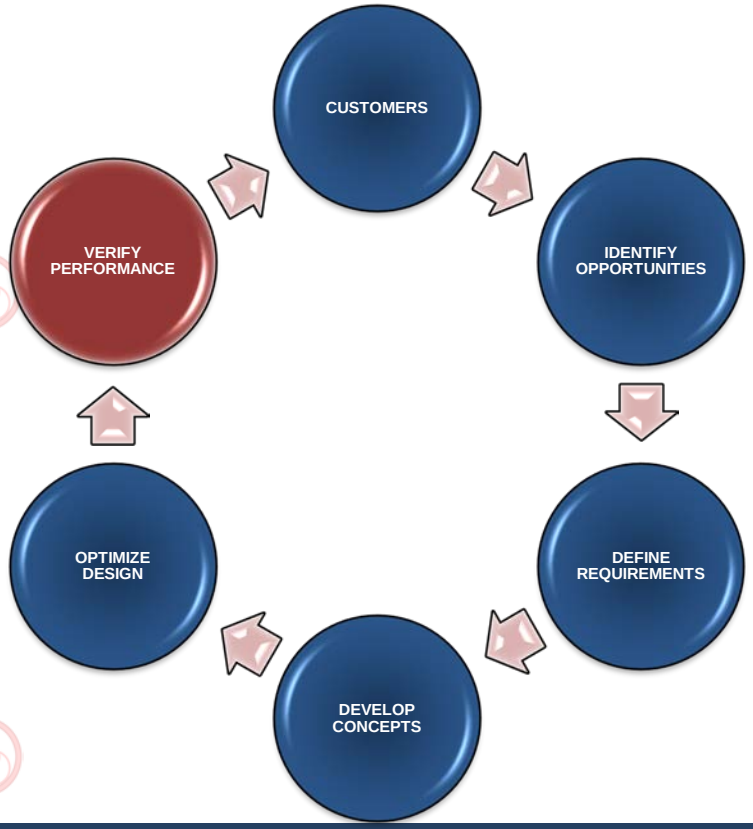
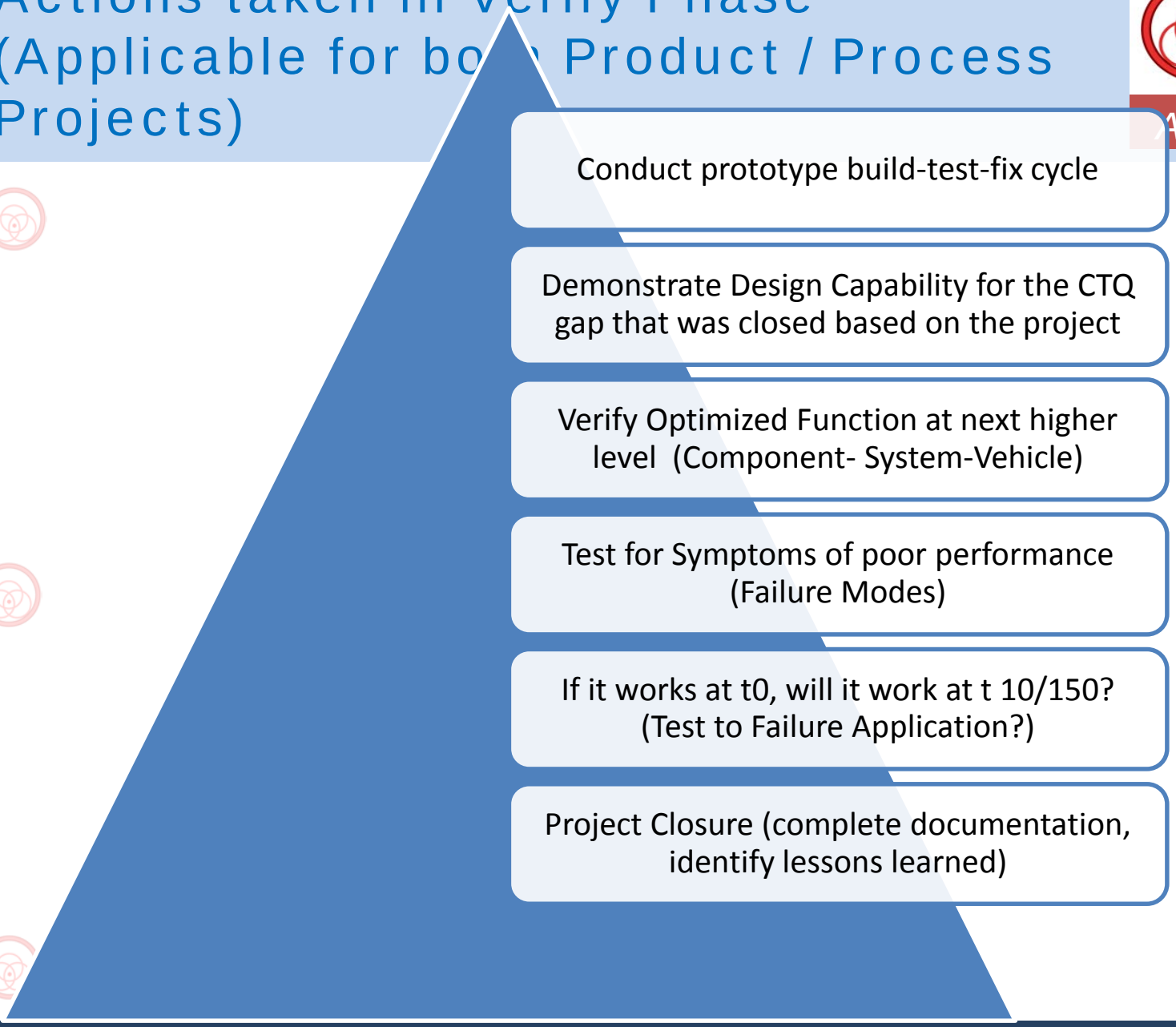
Assure that the customer will receive all the benefit possible from this product. Assure that the product performs to the targets set during Define phase.



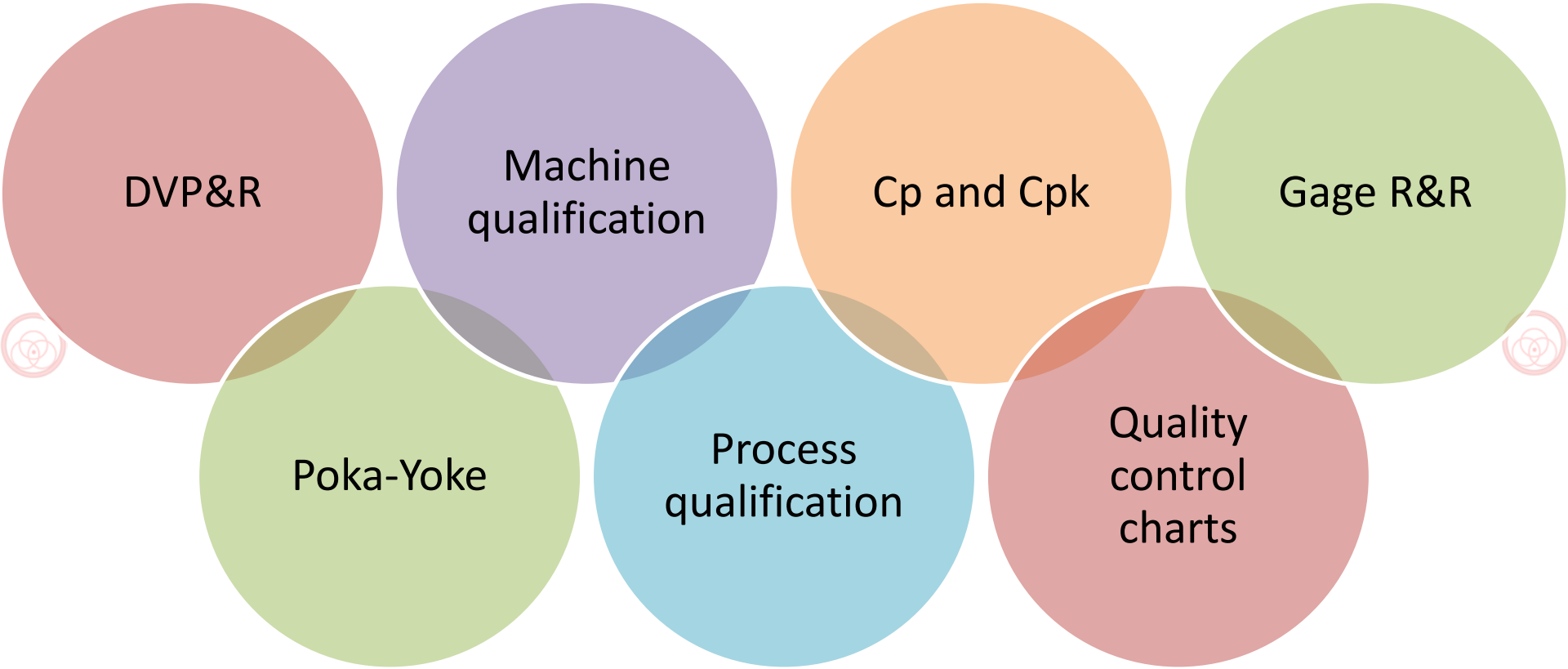
VERIFY PERFORMANCE
Verify Product Performance (DVPR)
ACTIONS
Conduct prototype build-test-fix cycle
Demonstrate Design Capability for the CTQ gap that was closed based on the project
Verify Optimized Function at next higher level (Component- System- Vehicle)
Test for Symptoms of poor performance (Failure Modes)
If it works at t0, will it work at t 10/150? (Test to Failure Application?)
Project Closure (complete documentation, identify lessons learned)
TOOLS AND METHODS FOR VERIFY PHASE
DVP&R
Poka-Yoke
Machine qualification
Process qualification
Cp and Cpk
Quality control charts
Gage R&R

Actions taken in Verify Phase (Applicable for both Product / Process Projects)



- Conduct prototype build-test-fix cycle
- Demonstrate Design Capability for the CTQ gap that was closed based on the project
- Verify Optimized Function at next higher level (Component- System-Vehicle)
- Test for Symptoms of poor performance (Failure Modes)
- If it works at t0, will it work at t 10/150? (Test to Failure Application?)
- Project Closure (complete documentation, identify lessons learned)

Tools and Methods for Verify Phase (Applicable for both Product / Process Projects)



Next Few Slides we will look at list of some major companies and industries utilizing DFSS, Lean and Six Sigma

Industries that currently use this methodology to accelerate growth

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Automotive	Chemical	Construction and Mining	Defense and Aerospace
Education	Electronics & High Tech	Food & Beverage	Healthcare
Industrial Products & Services	Nonprofit Organizations	Other Industries	etc. etc....

Literally every industry and company on the planet uses some form of Six Sigma, Lean and DFSS

Automotive Companies already using DFSS / Lean / CI principles...

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- Automotive Products
- Automotive Systems Laboratories
- Borg Warner Automotive
- Lear Siegler, Inc.
- Peugeot
- Racemark International
- Chrysler Corporation
- Delphi Automotive
- Ferodo America
- Siemens
- Tenneco
- Toyota Motor Corporate Services
- Ford Motor Company
- General Motors
- General Tire
- Toyota Motor Sales
- Valeo Automotive Division
- Volkswagen AG
- Goodyear Tire & Rubber Center
- Jacobs Vehicle Equipment Company
- Etc.
- Volvo Heavy Truck
- Webasto
- etc

Note: Some of these companies have successfully achieved roughly $1Million per savings per project using the DFSS IDDOV Methodology

Chemical Companies that are already using DFSS / Lean Techniques

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- Dow Chemical
- Dupont
- DuPont Canada
- Exxon Chemical Company
- FMC Corporation
- International Specialty Products
- Lubrizol
- Milliken & Company
- Mobile Chemical Company
- Morton International
- Etc.

Aerospace and Defense Corporations using DFSS , Lean, CI, Six Sigma...

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- Aerojet Ordinance
- Army Missile Command
- Boeing
- Curtis Wright Flight Systems
- General Dynamics
- G.E. Aircraft Engines
- Gonzalez Design Engineering
- Honeywell
- Hughes Aircraft Company
- ITT
- ITT Federal Services Corporation
- Lockheed-Martin Corporation
- LTV Aircraft Products Group
- McDill Air Force Base
- McDonnell Douglas Corporation

Aerospace and Defense Corporations using DFSS , Lean, CI, Six Sigma... cont'd

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•NASA John C. Stennis Space CenterNASA Marshall Space Flight Center	•Naval Avionics Center	•Naval Weapons Center	•Northwest Airlines
•Pratt & Whitney	•Rocketdyne	•Rock Island Arsenal	•Rockwell International
•Sundstrand	•TACOM	•The Aerospace Corporation	•TRW
•United Technologies	•U.S. Army Headquarters	•U.S. Army Materiel Systems	Etc.

Education companies using DFSS to accelerate growth…

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•Boston University	•East Tennessee State University	•Industrial Research Institute
•Massachussetts Institute of Technology	•Michigan Technological University	•Oakridge National Laboratories
•University of Waterloo	•Unified Technologies Center	Etc.

Electronics and High Tech Companies using DFSS, SixSigma, Lean and CI...

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- AT&T Bell Laboratories
- Beta Technology, Inc.
- Bell Northern Telecom
- Canon Business Machines
- DataMyte
- Eastman Kodak Co
- EDS
- Ericsson
- Fasco Controls
- General Electric Co.
- General Instrument
- GTE Laboratories, Inc.
- GTE Products Corporation
- GTE Valenite Corporation
- Harman-Motive
- Hewlett Packard
- Hewlett Packard – Singapore
- Hobart Corporation
- Hutchinson Technologies
- IBM Corporation
- IBM Brazil

Electronics and High Tech Companies using DFSS, Six Sigma, Lean and CI… cont'd

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International Rectifier	•James River Corporation	Kaiser Electronics	•Kemet Electronics	•Lexmark International, Inc.
•LSI Logic	•M.T.S. Systems Corporation	•Methode Electronics	•Micro Switch	•Mitutoyo Mexicana
•Motorola, Inc. National Semiconductor	•Navistar	•NCR Corporation	•Norand Corporation	•Philips
•Phillips 66 Company	•Pirelli Cable Corporation	•Raychem Corporation	•Sandia National Laboratories	

Electronics and High Tech Companies using DFSS, SixSigma, Lean and CI… Cont'd

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- Siecor Corporation
- Siemens Energy & Automation
- Siemens Industrial Automation
- Sprague Electronics
- Square D Company
- SSI Technologies
- Texas Instruments
- Texas Instruments – Philippines
- The Wiremold Company
- TRW Advanced Systems Division
- Unisys Corporation
- U.S. West
- Western Digital
- Xerox Corporation
- Etc.

Food & Beverage companies using DFSS/ Six Sigma/Lean/ CI to accelerate growth...

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- Kal Kan Foods
- Kraft General Foods
- Miller Brewing Company.
- Procter & Gamble
- Schreiber Foods, Inc.
- Wright Brand Foods, Inc.
- Etc.

Healthcare companies using DFSS/ Six Sigma/Lean/ CI to accelerate growth…

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•Robert Wood Johnson Foundation	•St. John Health	•Oakwood Healthcare System	•William Beaumont Hospital
•Research Institute; University of Illinois	•Pfizer	•Henry Ford Health System	•Trinity Health
•Berger Health System	•Michigan State University, College of Human Medicine	•Thomson Medstat	•McClaren Regional Medical Center
•Accreditation Council for Graduate Medical Education	•Washington State Medical Association	•Greater New York Hospital Association	Etc.

Sample Healthcare Metrics that have been improved using DFSS/ Six Sigma/Lean/ CI to accelerate growth…

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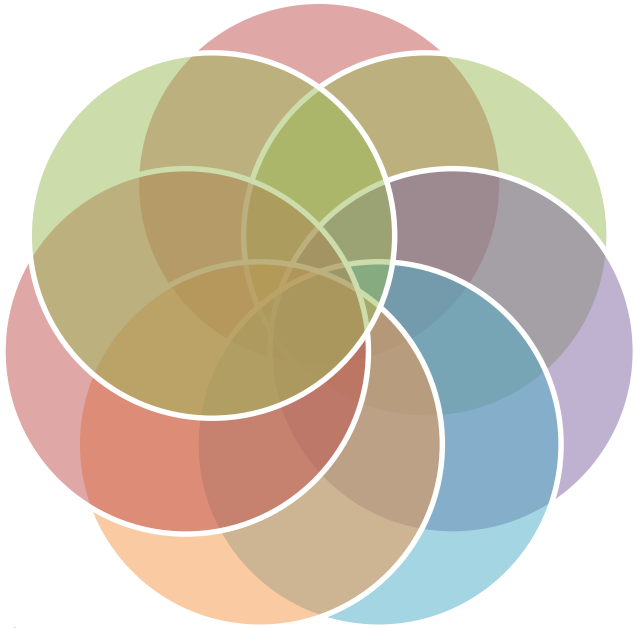
- Revenue Cycle Improvement
- Scheduling Efficiencies
- Supply Chain Cost Reductions



- Ancillary Turnaround Time Improvement
- Emergency Room Throughput
- Reduced Medication Errors
- Inpatient/Outpatient Care Process Improvement
- Operating Room Efficiency

Industrial Products companies using DFSS/ Six Sigma/Lean/ CI to accelerate growth...

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- Cameron Forge Company
- Caterpillar, Inc.
- Clemar Manufacturing
- Crown Cork & Seal
- Cummin's Engine
- Fasson
- Florida Power & Light
- Gates Rubber Company
- H.B. Fuller
- Hendrickson Suspension
- Howmet Corporation
- John Deere Harvester Works
- John Fluke Manufacturing
- Kaiser Aluminum
- Leybold

Industrial Products companies using DFSS/ Six Sigma/Lean/ CI to accelerate growth... Continued

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•Lord Corporation	•McKenna Group	•Miles, Inc	• New Venture Gear OEM Miller
•Onan Corporation	•Polyken Technologies	•PPG Industries	•Republic Engineered Steel
•Ryobi Motor Products	•Steelcase, Inc.	•The Budd Company	•Veeder-Root Company
•Vickers	•White-Rodgers	•Wyman Gordon Forging	Etc

Non Profit companies using DFSS/ Six Sigma/Lean/ CI to accelerate growth…

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- Leader Dogs for the Blind
- Henry Ford Health Systems
- Make it Right Foundations
- The Joint Commission
- ACGME
- Etc.

Other companies using DFSS/ Six Sigma/Lean/ CI to accelerate growth...

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- Dyncorp of Colorado, Inc.
- Fibercraft Bescon
- Fort Howard Corporation
- Gamesa
- Guilford Mills
- Haworth
- Herman Miller
- K2 Corporation
- Kill & Associates International
- Kimberly-Clark Corporation
- KitchenAid
- Master Lock
- Mead Corporation
- Meadowbrook Insurance Company
- Melroe Company
- MichCon
- Newport News Shipbuilding
- Otis Elevator

Other companies using DFSS/ Six Sigma/Lean/ CI to accelerate growth... Continued

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- Picker International, Inc.
- Pinkerton Tobacco
- Schlage Company
- Schlumberger
- Scott Paper Company
- Shakespeare Monofilament
- Shell Oil Company
- Sonoco Products
- Strombecker Corporation
- Tennessee Valley Authority
- The Dial Corporation
- The Gas Company
- The West Company
- U.S. Department of Commerce
- Weyerhaeuser
- Whirlpool Corporation
- Etc

Next few slides show few templates that come with this course and can be downloaded from site

Charter

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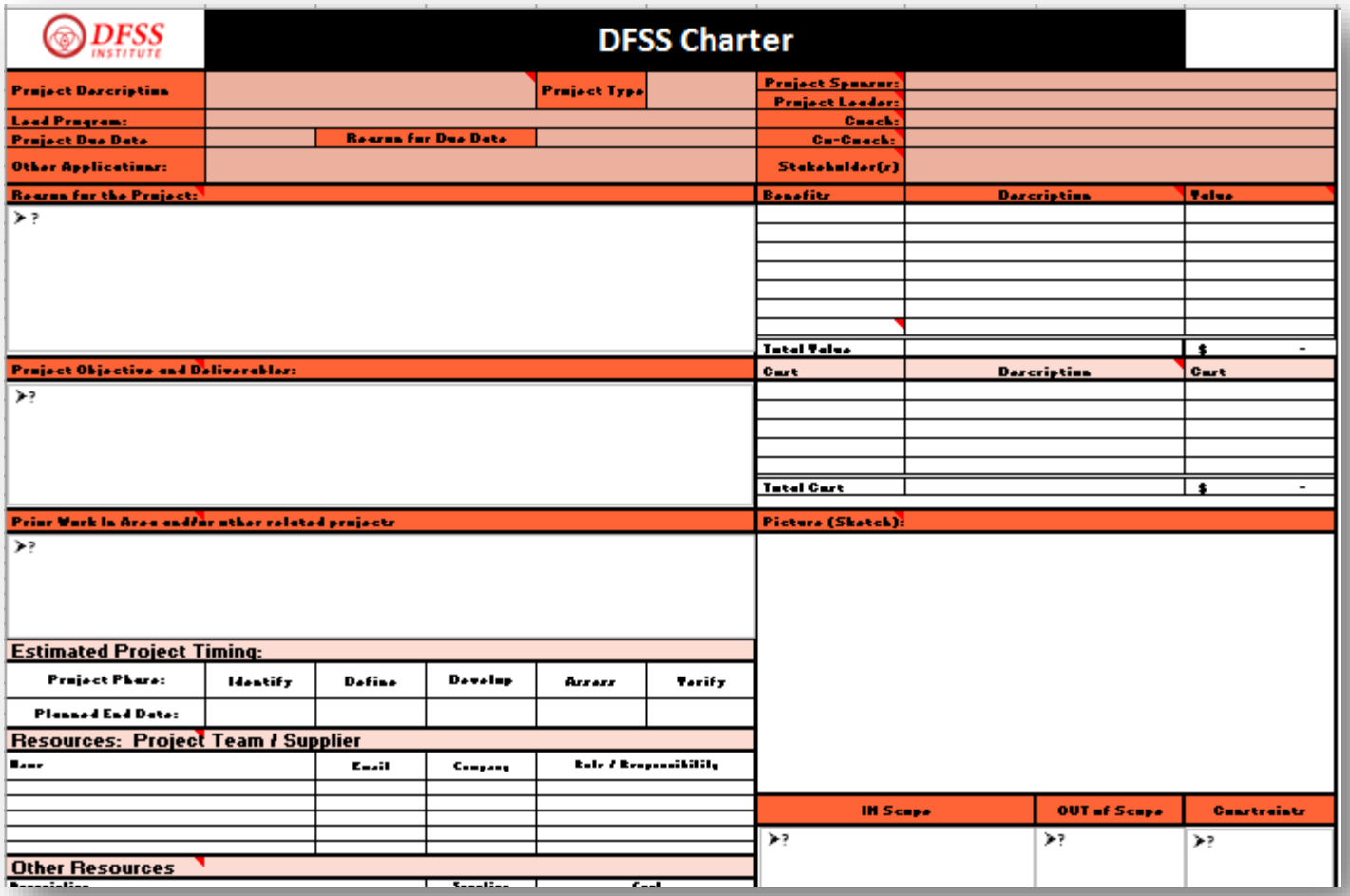


DFSS Charter

Project Description		Project Type		Project Sponsor:	
				Project Leader:	
Lead Program:				Coach:	
Project Due Date		Reason for Due Date		Co-Coach:	
Other Applications:				Stakeholder(s)	

Reason for the Project:	Benefit	Description	Value
➢?			
	Total Value		$ -

Project Objective and Deliverables:	Cost	Description	Cost
➢?			
	Total Cost		$ -

Prior Work in Area and/or other related projects	Picture (Sketch):
➢?	

Estimated Project Timing:

Project Phase:	Identify	Define	Develop	Assess	Verify
Planned End Date:					

Resources: Project Team / Supplier

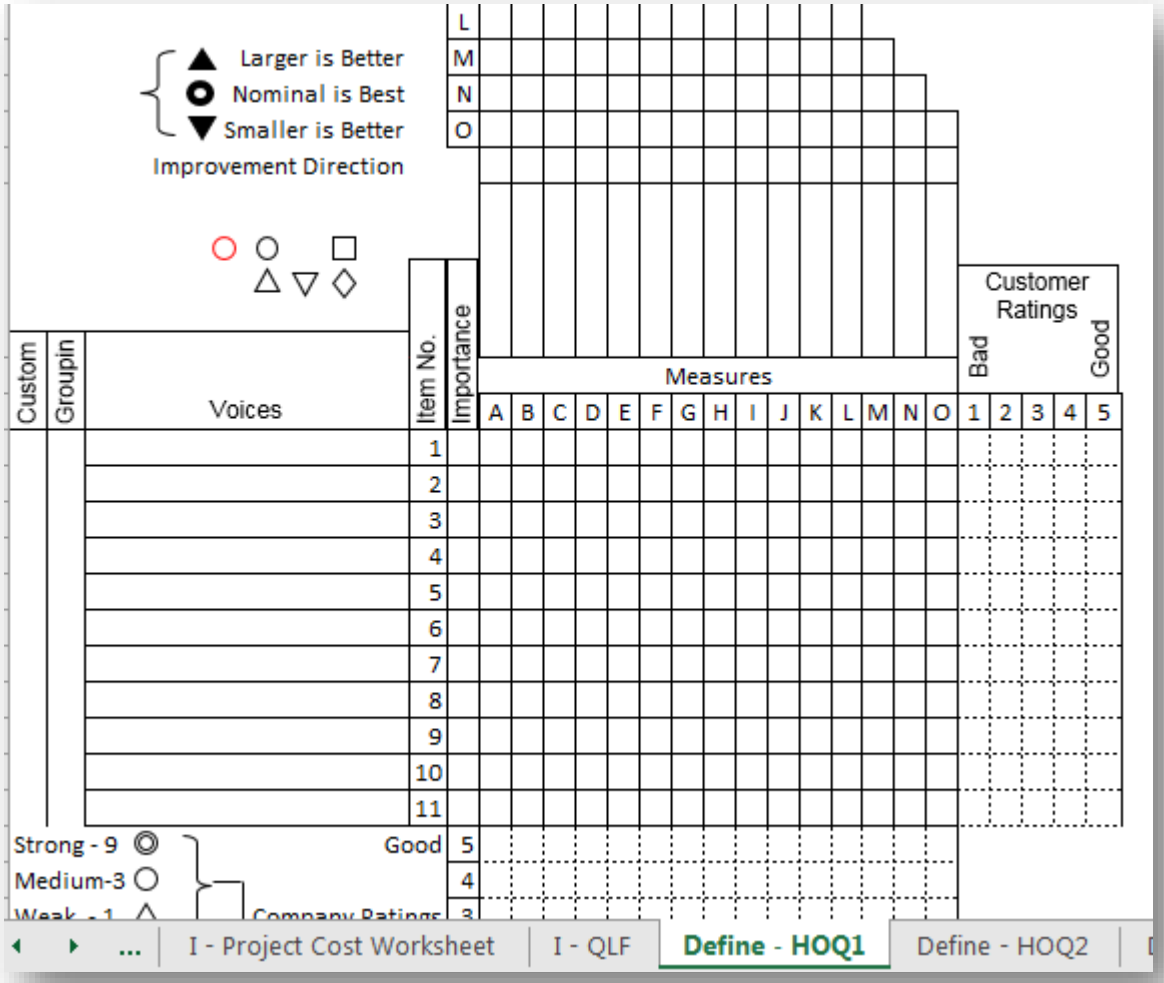
Name	Email	Company	Role / Responsibility

Other Resources

Description	Supplier	Cost

IN Scope	OUT of Scope	Constraints
➢?	➢?	➢?

HOQ Templates



Morphological and Pugh Templates

Morphological Matrix

	Design Parameters / Alternatives										
Functions	DP'	DP''	DP'''	DP'^{v}	DP^{v}						
FR_1											
FR_2											
FR_3											
FR_4											

Pugh Concept Selection - Round

Enter a +, - or S in each cell to represent whether the concept is SIGNIFICANTLY better, worse, or the same as the datum concept.

Work this way ---->

Criteria \ Concept	esponsibility	0	1	2	3	4	5	6	7	8	9
		D A T U M									
Σ+			0	0	0	0	0	0	0	0	0
Σ–			0	0	0	0	0	0	0	0	0
ΣS			0	0	0	0	0	0	0	0	0

	Concept Summary
0	
1	
2	
3	
4	
5	
6	
7	
8	
9	

Best Cases	Major Strengths	Major Weaknesses

Process:

Hybrid Concepts

Decision Analysis Templates

Decision Analysis

	Criteria	Responsibility	Weight	Design Alternatives: Concept 1	Concept 2	Concept 3	Concept 4	Concept 5
Must Haves	Criteria 1		Y/N					
	Criteria 2		Y/N					
	Criteria 3		Y/N					
Wants	Criteria 4							
	Criteria 5							
	Criteria 6							
	Criteria 7							
	Criteria 8							
	Criteria 9							
	Criteria 10							
	Total Weighted Score			0	0	0	0	0

* Enter criteria weighti

				Concept Description			Concept Description			Concept Description			Concept
	Criteria	Responsible	Weight	Rating	Weighted Score	Comments	Rating	Weighted Score	Comments	Rating	Weighted Score	Comments	Rating	Weighted Score
Must Haves	Criteria 1		Y/N											
	Criteria 2		Y/N											
	Criteria 3		Y/N											
Wants	Criteria 4				0			0			0			0
	Criteria 5				0			0			0			0
	Criteria 6				0			0			0			0
	Criteria 7				0			0			0			0
	Criteria 8				0			0			0			0
	Criteria 9				0			0			0			0
	Criteria 10				0			0			0			0
	Weighted Total Score			0			0			0			0	

* Enter criteria weighting and concept ratings in the YELLOW cells, the Weighted Score and Total Weighted Score is then calculated.

SAMPLE

DFSS Institute, LLC

SAMPLE

Hereby Grants that

sample

YOUR NAME

Has Achieved

CERTIFIED DESIGN FOR LEAN SIX SIGMA BLACK BELT (CDFLSSBB) CERTIFICATION

by successfully demonstrating thorough understanding of all aspects of the DFSS IDDOV methodology in acc ce with Design for Six Sigma Principles for Product development, Process im ent, Lean enterprise and Technology development.

May 3, 2012

SAMPLE

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yed
& CTO
SS Institute, LLC
United States of America

Sameena Kul es
President
DFSS I LLC
Uni s of America

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Certification Number: 122448

More than 170 Templates available on the DFSSInstitute.com site under the “DFSS Tools and Templates – For Corporations” Course.

Remember that you need to purchase the DFSS tools and templates course to download all templates

