























Black Belt R	Black Belt Responsibilities and Skills		
Responsibilities	Technical Skills	Soft Skills	
Lead <u>high</u> impact process improvement projects (DMAIC or DMADV) and improvement teams to increase customer satisfaction levels and business productivity (full time job).			
Coach Green Belts and receive coaching and support from Master Black Belts.			
 Communicate project progress on a routine basis to process owner and other key stakeholders. 			
 Monitor process improvement results to ensure sustainability. 			
Leverage learning through communicating across functional divisions.			
Continue his/her education in improvement methodologies.			
©Johnson & Johnson. All rights reserved.	13 Adapted f	rom: Making Six Sigma Last by George Eckes	

Responsibilities	Technical Skills	Soft Skills
 Lead <u>high</u> impact process improvement projects (DMAIC or DMADV) and improvement teams to increase customer satisfaction levels and business productivity (full time job). Coach Green Belts and receive coaching and support from Master Black Belts. Communicate project progress on a routine basis to process owner and other key stakeholders. Monitor process improvement results to ensure sustainability. Leverage learning through communicating across functional divisions. Continue his/her education in improvement methodologies. 	 Working knowledge of statistics and quality tools and a demonstrated proficiency in the use of the tools and techniques of Six Sigma. Typically completed four weeks of Six Sigma training, and have demonstrated mastery of the subject matter through the completion of project(s) and an exam. Significant experience with computers and data analysis. 	

Responsibilities	Technical Skills	Soft Skills
 Lead <u>high</u> impact process improvement projects (DMAIC or DMADV) and improvement teams to increase customer satisfaction levels and business productivity (full time job). Coach Green Belts and receive coaching and support from Master Black Belts. Communicate project progress on a routine basis to process owner and other key stakeholders. Monitor process improvement results to ensure sustainability. Leverage learning through communicating across functional divisions. Continue his/her education in improvement methodologies. 	 Working knowledge of statistics and quality tools and a demonstrated proficiency in the use of the tools and techniques of Six Sigma. Typically completed four weeks of Six Sigma training, and have demonstrated mastery of the subject matter through the completion of project(s) and an exam. Significant experience with computers and data analysis. 	 Excellent decision making skills Excellent project management, and people management skills. Able to interpret the business impact of project changes and track financial and other performance measures. Able to translate complex data and other information into simpl concepts and/or actions. Able to clarify and maintain focu on the most significant process variables to measure. Able to coach, mentor and train Green Belts and improvement team members as required. Able to develop and deliver oral and written communications on process improvement projects. Able to promote and sustain change initiatives.

Responsibilities	Technical Skills	Soft Skills
Lead process improvement projects and improvement teams as part of their full time job.		
Operates under the guidance of Black Belts and support them in achieving the overall results.		
Guide Yellow Belts and improvement teams through project completion by providing project coaching/ consulting in the basic quality tools and techniques of Six Sigma.		
Communicate project progress on a routine basis to the Black Belt, process owner and other key stakeholders.		
 Leverage learning through communicating within functional division. 		

Green Belt F	Responsibilitie	es and Skills
Responsibilities	Technical Skills	Soft Skills
 Lead process improvement projects and improvement teams as part of their full time job. Operates under the guidance of Black Belts and support them in achieving the overall results. Guide Yellow Belts and improvement teams through project completion by providing project coaching/ consulting in the basic quality tools and techniques of Six Sigma. Communicate project progress on a routine basis to the Black Belt, process owner and other key stakeholders. Leverage learning through communicating within functional division. 	 Working knowledge of basic statistics and quality tools and demonstrated proficiency in the use of the appropriate subset of tools and techniques of Six Sigma (not as much knowledge as a BB). Typically completed one to two weeks of Six Sigma training. Experience with computers and data analysis. 	
©Johnson & Johnson. All rights reserved.	Adapted from 17	: Making Six Sigma Last by George Eckes

Responsibilities	Technical Skills	Soft Skills
 Lead process improvement projects and improvement teams as part of their full time job. Operates under the guidance of Black Belts and support them in achieving the overall results. Guide Yellow Belts and improvement teams through project completion by providing project coaching/ consulting in the basic quality tools and techniques of Six Sigma. Communicate project progress on a routine basis to the Black Belt, process owner and other key stakeholders. Leverage learning through communicating within functional division. 	 Working knowledge of basic statistics and quality tools and demonstrated proficiency in the use of the appropriate subset of tools and techniques of Six Sigma (not as much knowledge as a BB). Typically completed one to two weeks of Six Sigma training. Experience with computers and data analysis. 	 Good project management, and people management skills. Able to translate data and other information into action steps. Able to assist Black Belts in clarifying and maintaining focus on the most significant process variables to measure. Able to coach improvement team members as required. Good oral and written communications skills. Able to monitor change initiatives and provide feedback.

Yellow Belt Responsibilities and Skills		
Responsibilities	Technical Skills	Soft Skills
 Often responsible for running smaller process improvement projects using the PDCA Cycle (Plan, Do, Check, Act) methodology. Communicate project progress on a routine basis to Black Belts and Green Belts, process owner and other key stakeholders. Leverage learning through communicating within department. Participate as a core team member or subject matter expert (SME) on a project or projects. 		
©Johnson & Johnson. All rights reserved.	19	

Responsibilities	Technical Skills	Soft Skills
 Often responsible for running smaller process improvement projects using the PDCA Cycle (Plan, Do, Check, Act) methodology. Communicate project progress on a routine basis to Black Belts and Green Belts, process owner and other key stakeholders. Leverage learning through communicating within department. Participate as a core team member or subject matter expert (SME) on a project or projects. 	 Basic knowledge of statistics and Six Sigma tools and techniques (2-3 day training). Some experience with computers and data analysis. Able to collect data and use descriptive statistics to interpret the data. 	

Yellow Belt	Responsibilit	ies and Skills
Responsibilities	Technical Skills	Soft Skills
 Often responsible for running smaller process improvement projects using the PDCA Cycle (Plan, Do, Check, Act) methodology. Communicate project progress on a routine basis to Black Belts and Green Belts, process owner and other key stakeholders. Leverage learning through communicating within department. Participate as a core team member or subject matter expert (SME) on a project or projects. 	 Basic knowledge of statistics and Six Sigma tools and techniques (2-3 day training). Some experience with computers and data analysis. Able to collect data and use descriptive statistics to interpret the data. 	 Able to translate data and other information into action steps. Good oral and written communications skills. Able to assist Black Belts and Green Belts in clarifying and maintaining focus on the most significant process variables to measure. Able to monitor change initiatives and provide feedback.
©Johnson & Johnson. All rights reserved.	21	









Lean Thinking Wastes



Type of Waste	Description
Over-production	Doing more than you need to - output of a process
Waiting	Things just don't happen when they should
Transportation	Moving stuff to different locations
Inventory	Keeping stuff on-hand when it isn't required
Over-processing	Doing more than you need to - within a process
Motion	Excess movement - person within a process
Defects	It just doesn't meet expectations
People	Not utilizing highly trained staff effectively
	1

©Johnson & Johnson. All rights reserved.

Methodology	Six Sigma	Lean Thinking
View of Waste	Variation is waste	Non-value add is waste
Application	1. Define	1. Identify Value
	2. Measure	2. Define Value Stream
	3. Analyze	3. Determine Flow
	4. Improve	4. Define Pull
	5. Control	5. Improve Process
Tools	Math-Statistics (Difficult to teach and learn)	Visualization (Easy to teach and learn)
Focus	Problem focused	Process flow focused
Primary Metric	Defects	Time
Discipline Required	Anyone responsible for process improvement	Everyone
Time to Change	Slow (weeks to months)	Quick



Examples of Six Sigma Trainings in the Market

Training	Instruction Method	Duration	Company
3-Day Healthcare Jumpstart Rx©	Face-to-Face	3 days	Six Sigma.us
Six Sigma Yellow Belt Training for Healthcare	Face-to-Face	2 days	ValuMetrix Services, Ortho-Clinical Diagnostics
Six Sigma Green Belt Training — Healthcare	Face-to-Face	2 weeks	American Society for Quality
Lean Six Sigma Black Belt for Healthcare — Blended Format	Blended course (online, self-study and face-to-face)		American Society for Quality
Six Sigma Green Belt Training	Face-to-Face	5 days	Healthcare Excellence Institute
Six Sigma Black Belt Training	Face-to-Face	4 weeks	Healthcare Excellence Institute
Online Six Sigma Green Belt Healthcare Program	Online	Self-paced	University of Michigan Engineering
	Which one is	best?	
			_

29

The Best Training Program for You Depends On...

- ? The type of problem you want to solve (e.g., defect reduction, waste elimination, flawless new services, etc.).
- 7 The content of the training (focus on healthcare is a must!).
- ? The cost of the training program.
- 7 The duration of the training program.
- 7 The coaching/mentoring offering from training program.
- ² The reputation/quality of the training program.
- 7 The transferability of learnings.
- ? Etc.

©Johnson & Johnson. All rights reserved.

©Johnson & Johnson. All rights reserved. 30













