

Ag	enda	
1. 2. 3. 4. 5.	<ul> <li>Introduction</li> <li>Plan Components and Typical Timelines</li> <li>The Detailed Deployment Plan</li> <li>Process Focus</li> <li>Organizational Structures</li> <li>Measures</li> <li>Rewards and Recognition</li> <li>Infrastructure Tools</li> <li>Completing the Deployment Plan</li> <li>References</li> </ul>	•

# Introduction

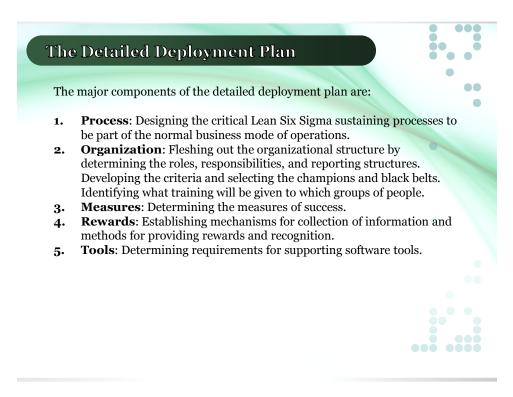
A major component of the initial planning is developing an infrastructure—including the organizational structures, processes, measures, and tools—to support Lean Six Sigma. One of the biggest risks that new Lean Six Sigma initiatives face is to become "collateralized," not part of the ongoing methods of doing business but rather a "program" or something that we do with spare time or resources. A strong infrastructure moves Lean Six Sigma from collateral to "business as usual." The failures of previous programs to stick and deliver sustained benefits are a strong paradigm that must be broken.

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	Year 1		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	De
Initiation	Detailed Design of Deployment													
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Implementation & Evolution	Black/Green Belt Lean Six Sigma V			Wave	1 🍝	4	► Wave	• e 2 •					- Y	
드	Benefits									5	5	\$	\$ 9	5

Figure 6-1. Example deployment timeline



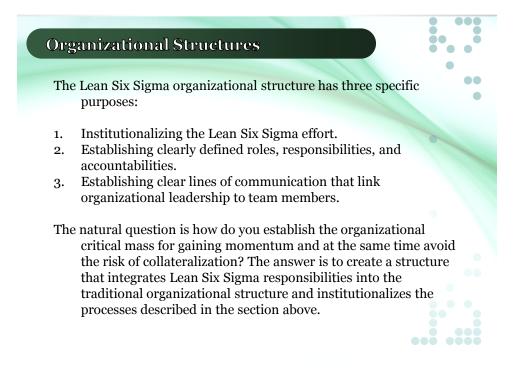


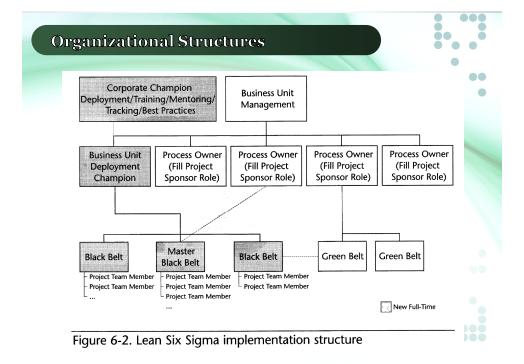


ess Focus	
Functional Organizations	Process Organizations
Quality is for QC Department	Leader drives for 6 sigma results
Focus on department optimization	Focus on process for customers
Defines problem and solution	Leaders set objectives with team involvement
Decisions by past experience	Decides based on data gathered by team
Focused on accounting measures	Also focused on customers, markets, speed
Delegates training to HR	HR engaged in training as a process driver
Overhead cost is a necessary evil	Overhead cost can be reduced by speed

Table 6-1. Comparing functional and process organizations

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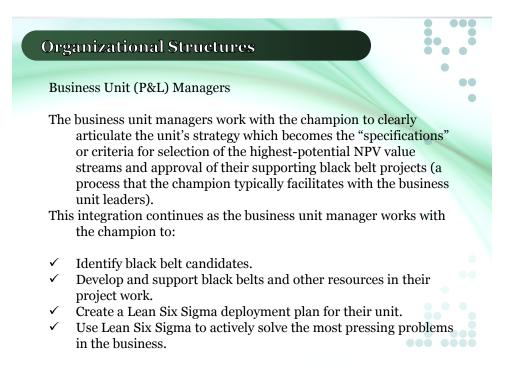




### CEO/President

Besides being the person who must decide that adoption of these new methods is of strategic importance to the company, the CEO must also perform a role in infrastructure processes by...

- ✓ Consistently communicating the strategic priorities to direct reports (both unit managers and the company champion, for example).
- ✓ Following up communication with action by constantly reinforcing the importance of Lean Six Sigma efforts to both direct reports (e.g., by monitoring detailed planning, informally inquiring about progress) and to the organization as a whole (e.g., through memos, presentations).
- ✓ Monitoring the rolled-up results vs. plan and taking corrective action.





### **Organizational Structures** New Infrastructure Positions with Specific Lean Six Sigma Responsibilities To successfully implement an entirely new way of doing business, you can't rely solely on people for whom Lean Six Sigma must compete with other priorities. That's why Lean Six Sigma builds new, dedicated positions around the traditional infrastructure. These positions fall into two broad categories: Champions: Full-time managerial-level personnel responsible for coordinating and overseeing Lean Six Sigma implementation, champions are direct reports to either the CEO (or other "C" level person) or a unit P&L manager/president. "Belts": Black belts and master black belts are full-time positions that report directly to the unit champion. Green belts and white belts are additional trained resources for Lean Six Sigma projects; these positions provide a development path to

## **Organizational Structures**

becoming a black belt.

#### **Company or Group Champion**

- The company champions report to the CEO or COO or president, as applicable. This direct reporting relationship is critical: if the company champion does not report to the CEO or COO, the "C" level officer's engagement will be suspect.
- The champion leads the design team, helps develop the corporate Lean Six Sigma strategy, and ultimately monitors its execution. As such, his or her primary responsibility is to ensure that the rest of the company executes a consistent, rapid deployment. Because of this requirement and the need to be able to address major barriers that will arise, *the company champion must be a very strong manager* capable of making it happen. Another role is the monitoring and roll-up of Lean Six Sigma results as compared with the strategic stretch goals set forth by the CEO. This includes making intermediate determinations as to the deployment's effectiveness by monitoring the quality and quantity of training events, resources committed by the business units, and the ramp-up to accretive results.

#### **Business Unit Champions**

The champions within each business unit are the glue that holds Lean Six Sigma together by building the critical bridge between business unit strategies and black belt projects. Being a business unit champion is a full-time job and the role should be assigned to a person who the company thinks has the potential to become a business unit manager three years. As such, being selected for a champion role is a "step to success" and voluntary acceptance of this role is a must.

## **Organizational Structures**

The business unit champion responsibilities are to:

- Develop the Lean Six Sigma schedule and deployment plans for the unit (in conjunction with the unit manager and corporate design/deployment team).
- Oversee the deployment of Lean Six Sigma in their business unit.
- Identify and, with the business unit manager, remove barriers to deployment.
  - ✓ Lead the process for proper selection of high-value projects.
  - Provide mentorship, management, and performance review of five to 15 black belt teams.
- ✓ Provide communication (up and down).
  - Keep the unit manager informed of team progress.
  - ✓ Ensure that "best practices" are shared throughout the organization.
- ✓ Ensure business unit engagement, not compliance.
- Work with the unit's controller to validate the bottom-line impact of each improvement before the results are rolled up to the company champion.
- Track, validate, and upload business unit results to the corporate champion.
- $\checkmark$  Provide integration for cross-business unit processes.

#### **Master Black Belt**

Master black belts act as internal expert consultants to black belts and their teams. As such, the master black belts must be experienced in successfully managing improvement teams to reach goals using improvement tools and skilled leadership. In fact, a typical master black belt will have worked as a black belt and completed five to 10 projects with annualized benefits of \$2 million per year.

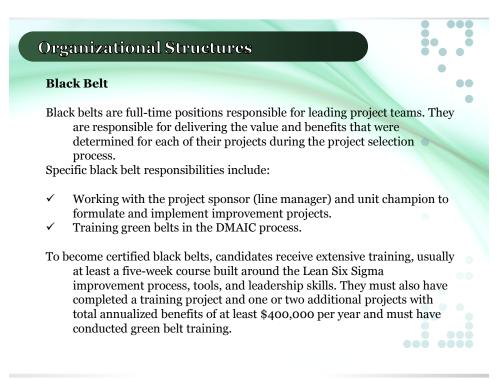
Since master black belts train, mentor, and coach black belts, a candidate must also have proven teaching skills, often gained by teaching three or more sessions in a standard four-week black belt training course.

### **Organizational Structures**

#### **Master Black Belt**

In addition, each master black belt is typically expected to become an expert resource in one or more specialty areas, such as the advanced Six Sigma or Lean tools. Master black belts provide the conduit to get best practices communicated with the unit champion and then out to the rest of the organization.

The education and grooming of master black belts is an important process in the organization. During early implementation, few organizations have people with the proper expertise, which is why external consultants initially fill this role.





#### White Belts

White belts are another part-time resource that some organizations use to expand the pool of people who have some understanding of Lean Six Sigma goals and tools. (The term "white belt" is generic: this role may be designated by the company color.) White belts receive awareness training through classroom instruction, distance learning, books, and/or articles. This typically requires two to four hours of effort. The white belt may take the initiative to join a team as a potential green belt resource and make a contribution to the continuous improvement process.

### **Organizational Structures**

#### **Transition Tips**

- The management structure outlined above should be considered as a straw model to be modified to suit the needs and culture of your company. The benefit of this structure is that it has been found highly effective in smoothly transforming a company from a functional to a process focus without disrupting existing managers or departments as did some implementations of "re-engineering." The structure respects the existing balances of power within the corporation and uses these strengths to assist the Lean Six Sigma process.
- The career advancement opportunities inherent in being selected as a black belt or a champion are not lost on participants. It is not uncommon to have many more black belt candidates than positions. This enthusiasm helps creates a virtuous cycle and organizational momentum.
- Yet, like all successful change initiatives, with Lean Six Sigma the new must grow out of the old. Before you make a lot of innovations, it is suggested to speak to people at other companies who have Six Sigma implementation experience.

#### **Black Belt Training**

- A well-rounded black belt training program uses diverse instructional techniques:
- Five to six weeks of classroom training, including one week of leadership training, four weeks of Lean Six Sigma, and an optional week to go into deeper detail on Lean or Six Sigma tools—training that should be rich in demonstration, simulation, student practice, and exercises.

Expert coaching (opportunities for one-on-one or small group interactions centered around project needs) to increase the socialization process and accelerate internalization (typically 5-10 days across the overall training cycle).

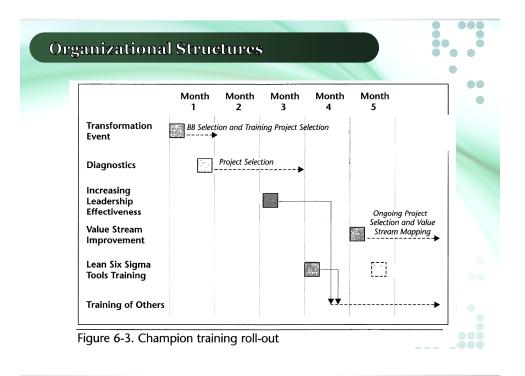
Individual testing to provide feedback on the effectiveness of learning. Application of new methods on real projects so participants can internalize new skills.

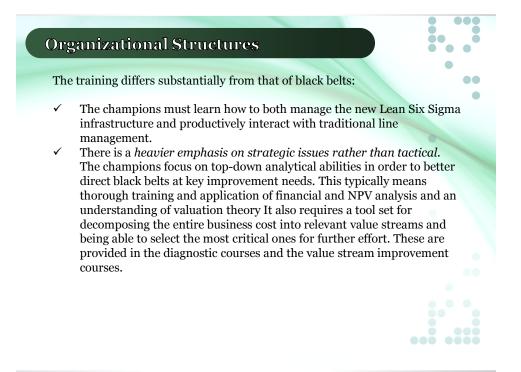
Access to training materials, case studies, and other resources through both printed and electronic means.

## **Organizational Structures**

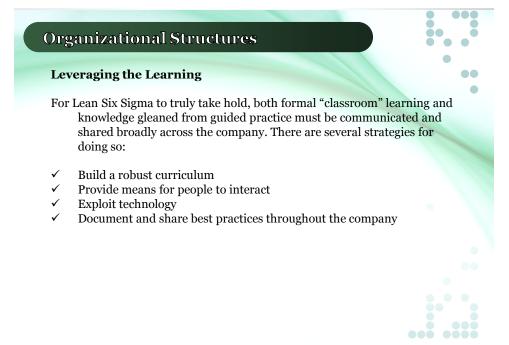
#### **Champion Training**

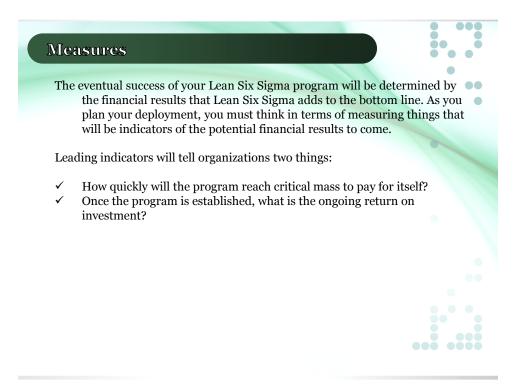
The role of the champion differs significantly from that of the black belt and is less standardized across companies adopting LSS. Their primary roles are LSS program governance, communicating LSS to the organization, and ensuring value creation through project selection and effective barrier removal. In essence, the champions are the liaison between the Six Sigma program and the P&L management of the company. They will receive between four and eight weeks of training in the first year of the program and may assist with the training of others beyond this.

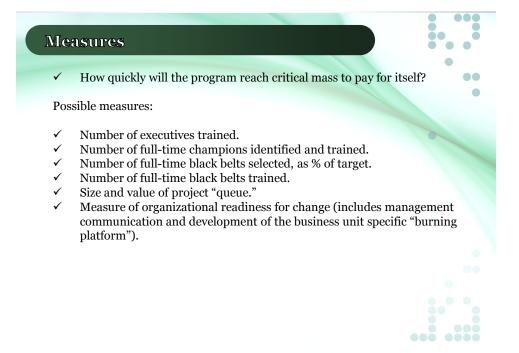


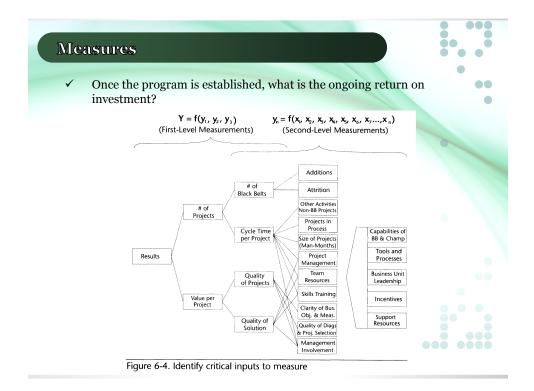


- ✓ Champions need to be trained to comprehend the tools and techniques of Lean Six Sigma, but only to a depth sufficient to manage black belt teams and know what results to demand. Thus, the"tool" portion of champion training is an abbreviated version of that given to the black belts. In some cases, the champions will attend all the Six Sigma tools sessions along with the black belts, but in most cases they can be adequately prepared with one to two weeks of Lean Six Sigma DMAIC training.
- ✓ Because a key responsibility of the champions is to be able to remove barriers from the path of the black belt and LSS program, champions also attend the *leadership effectiveness course* to enhance their interpersonal capabilities.
- A key element of effective champion training is to ensure that they are capable of delivering of awareness training to the broader organization. *This is the true test of how well they have absorbed and internalized their own training*. They will often help train local management staffs, project sponsors, and possibly even green belts. This has the side benefit of reducing the overall cost of the initiative by minimizing reliance on external trainers.









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BB Project Data	Completed Projects 2000 2001 (YTD)									Active F	On-Hold/ Queue Projects				
	Number of Projects	Average Duration per Project (weeks)	Average Savings per Project (annual <b>\$</b> K)	Median Savings per Project (annual <b>\$</b> K)	Number of Projects	2001 Average Duration per Project (weeks)	Average Savings per Project (annual <b>\$</b> K)	Median Savings per Project (annual <b>\$</b> K)	Number of Projects	Average Duration per Project (weeks)	Average Savings per Project (annual <b>\$</b> K)	Median Savings per Project (annual <b>\$</b> K)	Que Number of Projects	Average Savings per Project (annual \$K)	Media Savin Per Proje (annu \$K)
Region A	6	12.0	<b>\$</b> 467	\$390	4	11.0	\$309	\$216	7	14.6	\$204	\$200	20	\$165	\$12
Region B	8	16.0	\$250	\$255	8	16.0	\$340	\$280	11	14.0	<b>\$</b> 286	\$250	21	\$249	\$24
Region C	4	18.0	\$259	\$188	1	31.0	\$1,686	\$1,686	7	20.0	<b>\$</b> 190	<b>\$</b> 109	7	\$250	\$25
Region D	7	19.0	\$134	\$120	7	21.6	\$306	\$108	9	21.3	<b>\$</b> 410	\$250	8	\$486	\$29
Region E	4	23.6	\$158	\$128	4	14.0	\$556	\$511	5	15.0	\$246	\$250	12	\$214	\$25
Region F	2	20.0	<b>\$</b> 165	<b>\$</b> 165	2	15.0	\$360	\$360	3	12.0	\$200	\$200	9	<b>\$</b> 175	\$17
Total	31	17.4	\$250	\$177	26	16.9	\$413	\$320	42	16.6	\$272	\$225	77	\$238	\$24

Table 6-2. Displaying project results

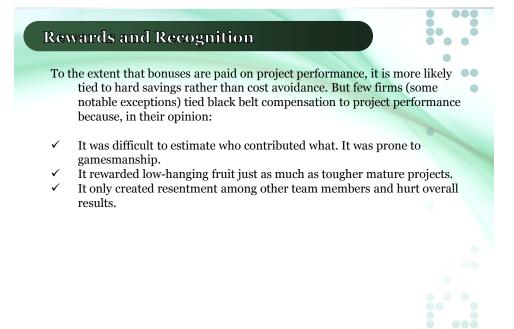
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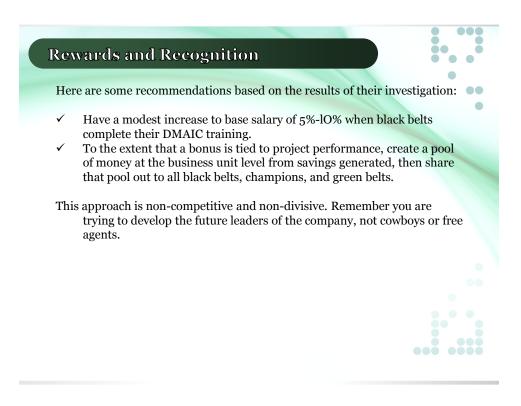
## **Rewards and Recognition**

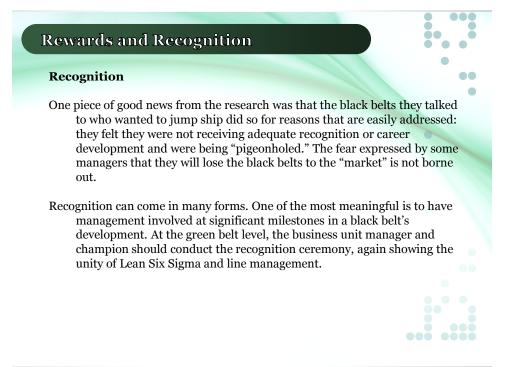
#### Compensation

Clearly it is useful to know what other firms have done and what have been their results. A company looked at base salary cash and stock bonuses, and key lessons learned. To collect this data, they personally interviewed over 100 black belts and master black belts, analyzed recruiting Web sites and résumés, and discussed compensation plans with a dozen companies considered to be leaders in Six Sigma implementation. The conclusions?

- ✓ The base pay was very dependent on work experience, industry, and location.
- ✓ The bonus cash compensation amounted to an average of 20% of base per year for black belts and 25% for master black belts.
- ✓ When stock option compensation was used, it amounted to about 30% of base, but had a huge variance in valuation and vesting over time.



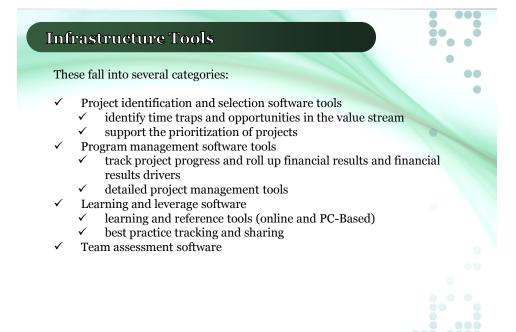




## **Rewards and Recognition**

#### Institutionalizing the Decisions

The decisions made about compensation, recognition, and even promoting people through each "belt" level need to be firmly established in corporate policy prior to selecting people to fill the new positions. The management teams that will interview candidates need to be able to *speak with authority* about how these systems work so that people will feel more comfortable moving over to this new, parallel infrastructure.



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# Completing the Deployment Plan

Most of the areas needed to address in a deployment plan have been covered here, but here is one more ingredient that hasn't been addressed yet: plans for the *official kickoff of the initiative*, which will bring all your P&L managers on board.

