BPM Workbook 2 Master Level



alim certificate program business process management



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	A	genda			
8:45 am – 5:00 pm	STRATEGY	PRACTITIONER	SPECIALIST	MASTER	
8:45 am – 9:00 am	Breakfast / Introductions				
9:00 am – 10:00 am	What is BPM?	Flowcharting 101	Strategy Concepts Review	Improvement Methodologies	
10:00 am – 10:45 am	Role of ECM & BPM	Process Modeling	Building the Project Team	Enterprise BPM	
10:45 am - 11:00 am	Morning Break				
11:00 am – 12:00 pm	Business Case	BPM Approaches	Gathering Requirements	Ethics	
12:00 pm – 12:45 pm	Lunch Break				
12:45 pm – 1:45 pm	BPM as a Practice	BPM Technologies	Design Processes		
1:45 pm – 2:45 pm	BPM as a Project	BPM Tools Overview	Implement Change	Studies	
2:45 pm – 3:00 pm	Afternoon Break				
3:00 pm – 4:00 pm	Business Analysis	Intro to EAI	Manage Change	BPM Futures (optional)	
4:00 pm – 5:00 pm	Process Improvement	Collaboration & BPM	Monitor Processes	Review Take-hom Case	
5:00 pm	Adjourn				









Early Identification

- Identify project stakeholders at the beginning of the project.
 - Late arrivals may introduce changes to scope
 - Stakeholders brought in late may be reluctant to participate or may cause conflict
 - Determining stakeholder needs early helps decrease cost, avoid delays and facilitates resource planning
- Stakeholder needs and objectives are what drive the project
- Review existing project reference materials and artifacts such as
 - Organisational chart
 - Project charter
 - Project scope
- Identify people associated with the project
- Review list with management to finalize the project stakeholders

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Requirements Signoff

- Ideally, all stakeholders review and sign off on all requirements. This promotes a more detailed view, and more consistent expectations.
- In some projects, it may be more practical to ask each stakeholder to sign off only on those requirements which directly relate to them





all business process management The End User / Staffer The role of "the average user" is decisive in any project ٠ Interfaces and features that make sense to an . information professional or an information technology specialist may be impenetrable to a user Usability presents many challenges, including: - intuitiveness of the interface - acceptability of processing time · The project may strive to make the enterprise more effective, but success hinges on end-user adoption Be sure the end user is involved from the outset ٠ - In defining the problem, requirements gathering, and phased testing © AIIM All Rights Reserved

Process Specialist

- A rare find
- Ability to interview and analyze feedback
- Able to create accurate flow charts
- Good understanding of one or more improvement methodologies
- Outstanding interpersonal communication skills
- Understanding of business and interpersonal dynamics



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alim business process management **Project Management and** Information Professionals Project Manager Information Professional Information professionals – Any new process or automation project needs leadership and sometimes called librarians, coordination business intelligence professionals, information scientists, data In many small businesses and architects, enterprise information departments of larger architects, or some variation of enterprises, one or two key these terms people are often supported by - Have responsibility for the content vendors or consultants and how it should best be Therefore, a project manager's structured to meet business goals job is to oversee that any technology selection, testing, deployment, and assessment are conducted on time and within the budget available © AIIM All Rights Reserved





The Customer

- The customer is your most important stakeholder
- The customer can be your client or more likely your client's client
- By managing the customers expectations and needs we can add value
- Methodologies such as Six Sigma focus on the customer
- Even if not the most important stakeholder the customer perspective in the process is central in all improvement work

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Customer Statements

- 1. I search the web for refrigerators options
- 2. I want choice and energy efficient options
- 3. I want a fair price
- 4. Delivery time and costs are important to me
- 5. Ongoing support (local) important
- 6. Customer support options matter to me



The Customer Process

- 1. How can we keep our website relevant and up to date capture more search traffic make the experience easier
- 2. A sudden spike in interest in 'Green' options has taken us by surprise, how to offer energy efficient models, and still manage our legacy inventory
- 3. My sales process is more costly than my competitors how to reduce yet stay competitive
- 4. Why can my competitors deliver in 7 days yet it takes me 14 days
- 5. How can I provide some kind of local service, without blowing my budget
- 6. How well do we manage exceptions



Communications

- Considerations
 - How communications will be handled
 - Frequency and medium (style) of communications
 - Who is responsible for communications
 - Details stakeholders needs and expectations
- Methods
 - As detailed in the plan
 - 1st preference face to face meetings
 - Weekly email blasts progress reports
 - More than one level of communication
 - Different stories for different players
- Issues
 - Need to keep an issues log
 - Project manager owns, reviews and assigns for resolution
 - Details a change process

















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Apply What You Have Learned					
Exercise: Identify Stakeholders					
Instructions: In the chart below, identify stakeholders in your organization who should participate in a BPM program you are preparing to conduct. Identify individuals as possible by Role or Title, or simply list relevant teams, departments or locales. Then for each, describe why they should be included and where you expect their interests to lie. Use the back for additional rows as necessary.					
TITLE/ROLE WHY? INTERESTS?					
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Barriers

- Insufficient time allocated to elicit requirements (For a 6-month project, 2 weeks for requirements gathering is not sufficient)
- Failure to understand the political situation fully (fixation on job titles)
- Distrust (fear)
- Physical distance between analyst and source of information





Techniques

- There are clear and standardized methods for eliciting information
 - Document Reviews
 - Questionnaires
 - Workshops
 - Brainstorming
 - Interviewing
 - Among others
- By using a suitable combination of these techniques you can go along way to addressing many of the barriers and issues you will undoubtedly encounter
- Reviewing documentation is a technique for use in all projects, the others need to be selected and matched to your specific enterprise culture

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Document Review Limitations

- Locating relevant documents can be time consuming
- Important documents may be ignored
- Some documents may be redundant or outdated
- Reading and summarizing disparate documentation is difficult
- There is a danger of getting sucked into detail and not seeing process-level information
 - Nevertheless, documentation review is essential and stakeholders can reasonably expect you to have done your research before working closely with them

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alim business process management Questionnaires A questionnaire can be one of the most effective tools available to gather requirements Too frequently overlooked in requirements processes that rely solely on face-to-face interaction **Questionnaires:** Follow the document review • Gather fixed data and information • May include questions such as: - How many people work in the department? - What are the typical working hours? – How many work at any one time? © AIIM | All Rights Reserved









Brainstorming Limitations

- Not a replacement for formal requirements gathering
- Can be difficult to keep the discussion on topic
- Sessions can quickly be dominated by one or two people
- · Facilitation skills need to be expert
- May produce many ideas but none that are useable
- Not a replacement for formal requirements gathering



Interviewing Limitations

- Requires strong interpersonal and interviewing skills on the part of the interviewer
- Can be intimidating for the interviewee
- Interviewee may be reluctant to reveal information
- Interviewee may tell you what they think you want to hear rather than the truth
- Can be time-consuming



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The Paradox of Process Automation

- We often expect peers to explain what they need for a system they've never seen or touched
 - This is unfair to everyone
- Requirements may not fully solidify until after first prototyping and proofs-of-concept
- Meter your expectations accordingly
 - System users may not fully understand or be able to articulate what will really work until they try the application
 - Consider adding "agile" techniques into the mix with application prototyping
 - Be sure to phase in large projects accordingly and do not go for "big-bang" implementations

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alim business process management **Best Practices** "Personal" Qualities for Gathering Requirements: - Ability to listen Diplomacy Compassion Ability to separate key issues from noise Confidence to the draw the line - Humility to recognize the source is the expert Remember to: Avoid jumping to conclusions Save analysis and recommendations for that phase of the process Measure twice - cut once © AIIM All Rights Reserved

Caveats

- Extracting requirements is as much an art form as a specific technique
- Consider using experienced professionals to facilitate and guide
- The act of gathering requirements is never passive
 The activity of gathering requirements will change reality
- Not all responses are accurate
- Politics exist everywhere

 Accept it: there is no apolitical change
- The resulting analysis will *always* be subjective and never 100% accurate









Overview

- Requirements have been gathered and flowcharts have been created detailing the 'As-Is' stage of a process
 - Now the current situation needs to be initially assessed
 - At a high level
 - At a detailed level
- · In this module we will look at how to analyze the status quo
 - In the context of a particular outcome
 - Toward a particular set of objectives outlined in your business case
- Utilize best practices and move the project toward necessary process changes
- This is more advanced work for the specialist.
 - At this point the organization will be impacted by your recommendations







More Troubleshooting

- Do I understand the purpose of each step?
- Is there a clear and logical input and output to each step?
- How else could this process step be accomplished?
- Could we do something 'upstream' to eliminate the step?
- 0
- Are repetitive steps boiler plated?
- How do exceptions impact individual steps?
- What are the timings and metrics for each step?
- Are we fully utilizing data sources?





all business process management **Questions to Ask - Clusters** Questions to ask about clusters: - Why does this cluster exist? - Is it a "natural" cluster? – Do I have sufficient information? Do I have too much information (comparatively)? Do I truly understand this stage of the process? - Is this an opportunity for parallel processing? - Are steps really steps or sub-processes? If inputs coming into the process *naturally* cluster, then you may need to consider separating out into multiple sub-processes © AIIM All Rights Reserved












Best Practices & Recommendations

- When developing parallel routes, you need to be sure that added quality assurances and checks are built in
- In more complex process maps involving multiple parallel processes, simulation tools can be invaluable
- Pay particular attention to rendezvous points and capabilities when reconciling parallel modifications
 - Not all parallel processes require a rendezvous
 - But they are particularly prevalent in content-oriented workflows



Natural Order Defined

- It requires the skill of the business analyst to identify that order
- Identifying the "natural" order is a very difficult task flow charts of captured processes seldom identify this
- Flowcharts layer a "logic" to abstract processes to help us make sense of them
- Work should be performed where it makes most sense
- When redesigning a process, ignore current boundaries

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Natural Order's Main Sequence

Main Sequence:

- The key steps to make and deliver a product or service
- Sometimes called the "Value Stream" (Similar to Michael Porter's Value Chain concept)
- The process that your customer "pays" for
- Some methodologies demand that the main sequence should be identified immediately, and that nothing should ever impact or slow this particular process
- There should always be a continuous flow to the main sequence otherwise your business is in trouble

Inputs & Outputs

- As process specialists we should understand that the logic of methods - does not always translate to reality
- Flowcharts, IT systems, and logic suggest that all tasks and activities have clear inputs and outputs
- Reality dictates that things are seldom so clear cut
- Consider inter-relationships rather than isolated tasks (counter to clusters)
- Always consider inter-relationships when streamlining or re-engineering
- Inter-relationships can be easy to miss

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alim business process management **Check and Reviews** In many organizations unnecessary checks and reviews in the process stream are the cause of bottlenecks Yet trying to streamline them can be difficult due to expectations around QA and regulatory requirements real or mythical Need to ensure quality, but also need to question value of checks and reviews No value, if review always results in a Yes or alternatively always results in a No situation Consider "For Information" checks Focus on time taken and stage within the process checks and reviews are executed Consider building QA into ongoing tasks © AIIM All Rights Reserved 1

Best Practices

- Always question the sequence of steps never assume they are in the *right* order
- Remember that the "natural" flow is different from the "Main" Sequence
- Consider bringing downstream activities upstream adding value upstream can massively impact downstream activities
- Capture once every time





Wrapping Up

- Start with a set of business objectives, or you will just be seeking random improvements out of context
- It's one thing to take information you gather and to map to a flowchart. It's another thing altogether to do that well, and to use the very process itself as one of discovery
- Once you master the basics of business analysis, business process, and management, you need to advance your skills to the next level
- Reminder: A flow chart is never more than a sketch and you can never map a process with 100% accuracy

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How to Apply What You've Learned

- Take As-Is charts and requirements documentation and develop improved alternatives
 - This is an advanced skill you are changing the way the organization works
- Understand the strengths and weaknesses of the current process
- · Analyze models for clusters and identify bottlenecks
- Use parallel processing as your initial tool for change, but recognize the limitations and inherent challenges
- Consider the natural flow for your proposed alternative
- Be aware of the main value sequence and protect it
- Look for unnecessary checks in the flow but recognize the difficulty of resolving them
 - Problems removed from one area of the process can re-emerge elsewhere





Overview

- Aspects of what we model (the tasks) cannot be fully mapped or understood
 - They are ad hoc human interactions
 - The human dimension may be where the ultimate value in the process lies
 - Flowcharts and models can help to iron out logical problems, but that's not always the complete picture
- Therefore understanding *who* and *how* to route is essential to achieving the best quality process outcome
 - In short the dynamics of human activity



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People Understand all the dynamics that affect a person undertaking a task on any one day, although we can make use of structures and methods to view the *personnel* elements of a process We should make use of appropriate tools to effectively route tasks to the right people at the right time Activity Theory provides a structure to do this Once we have analyzed our process and streamlined it we then need to interpret how to best structure the individuals, roles and group involved in undertaking each step

Addressing Traditional Limitations

- Complex interactions (business processes) are multidimensional yet our process charts are at best two dimensional
- We tend (naturally) to base our process assumptions around generalized (standardized) assumptions
- We view workers involved in tasks without regard for the individual, the work environment etc
- We seldom consider the relationship of the individual with the task object
- In short our models provide generic representations of what are in fact multi dimensional sets of activities
- In recognizing that limitation we can enhance them by considering the interactions between the task activity and the person undertaking the activity



























Work Queues

- Human tasks seldom get completed in the same manner and time, every time
- Tasks will often need to be queued ..
 - By sending to a users inbox
 - By sending to a group/shared inbox
- Once in the inbox they may or may not be prioritised and ordered
- Once taken from the inbox they need to be monitored and checked out
- Once checked out it may be completed, returned uncompleted or stagnate

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Workload Balancing

- · One of the keys to avoiding bottlenecks
- Can be as simple as allocating no more then 5 tasks at one time to a 'group'
- Could be as complex as weighting typical resolution time per group member to push work to workers who resolve tasks fastest
- Workload balancing can be tied to process analysis and monitoring tools to predict and recommend routes







Applying the Theory - 2

- When gathering requirements and information always be aware that the individual who is supplying the information:
 - Is providing a personal perspective
 - Is part of a social community and will naturally be influenced by that
- Recognize the *politics* as *implicit* rules that show how the subject must fit into their community
- Place their requirements into the context of the requirements of their community
- Recognize the importance of motives, goals and rules at each stage of the process
- Remember that everyone is part of a community (possibly more than one), and a community may itself be a part of other communities













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POCs & Pilot - Benefits
 Technical evaluation Compatibility with IT infrastructure and other applications Performance and network considerations Functionality evaluation Does the system really do all that is specified and required Test essential usability considerations in low-risk environment
 Finalise configuration Ensures all aspects of environment are defined Establish and 'freeze' a configuration for roll-out Training development Develop and assess training materials and methods Train the trainers, Help Desk staff, Developers, others











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Product Vendor or Systems		
Integrator?		
	Integrator	Vendor (incl. PSO)
Consider first when	Need strategic and requirements advice	Have very solid business case and specifications
Scope	May see business forest but not process trees	Know BPM principles, but may not see bigger picture
Product Expertise	Vendor Neutral vs. Vendor Partnered	Know their own system best
Resources	Can staff up and across, but tend to emphasize 'do' over 'teach'	Can supply talent on flexible basis, but tend to be pricier
Duration	Partnership	Sales Cycle
Final thought:	Where is the best relationship fit? Focus on people and corporate culture fit [Consider "key personnel" clauses]	
You may well need both		
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Pilot Benefits

- · Starts roll-out of new technical environment
- Pilot users
 - Use 'real' IT infrastructure
 - Sit at own desks, in normal office, doing normal work tasks
- · Real world evaluation of new environment
 - Provides realistic assessment of performance achieved
 - Tests entire project, not just technology
- User feedback on functionality and performance, suggesting improvements
- Documentation and training can be refined in light of experience









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Pitfall: Underestimating Costs
 Work to normalize license pricing: per CPU per server per department per user per power user per developer per year, and, frequently Work to normalize license pricing: Remember: Real costs are in Services Consulting Customization Extension Integration Support Usually 2-8x software costs
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How to Apply What You've Learned		
Exercise: Develop Project Schedule		
This is an individual exercise and necessarily involves guess-work on your behalf. For your organization, estimate, rather than calculate times. Also, it is OK to skip and consolidate steps.		
Be realistic. Check to see what steps could be taken in parallel or collapsed.		
What are the communications and governance implications? For example, what are the costs of hurrying it up?		
How could a more agile (less waterfall) methodology be applied here?		
Are there any extraneous steps?		
Any key steps missing?		

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E	3PM Specialist Track
	The BPM Project → Business Case
	Stakeholders
	Process Design Human Factor Human Factor
	Monitoring Improvement Methodologies Enterprise BPM
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Learning Objectives

- At the end of this module you should be able to:
 - Identify different types of change
 - Contrast technology change with process change
 - Understand the 4 dimensions of organizational change readiness
 - Identify different models for change management
 - Articulate best practices for change management















Respect

- Is the leadership that is recommending change respected?
- Are the employees impacted by the change respected?
- Are the consultants and business analysts respected by both?
- How is the respect expressed?
 - Flexibility
 - Delegation
 - Tolerance
 - Encouragement
- By asking these questions we get to the truth

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Trust

- Is the leadership trusted?
- Are the employees trusted?
- Is the reality of change exposed honestly and openly?
- Is there a history of mistrust?
- Are the consultants trusted?
- Do employees and leaders trust each other?
- Often trust is not that high
 - Therefore your goal is to pinpoint hotspots of distrust and manage accordingly

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alim business process management **Motivation** What is the leadership's motivation to change? What is the employees' motivation for change? Do these two reconcile? What is in it for me (WIIIFM)? Is the motivation to co-operate? To support? ٠ To enjoy the outcome? Motivation for change is normally stronger at the management level - Your goal is not so much to measure the strength of the motivation than the reasons for it © AIIM All Rights Reserved

Assessing Change Readiness

- · Is anybody ready for change if so who and where?
- Why are they not ready?
- Use change to bring about change
 - Devolve decision making
 - Share information more vigorously
 - Start to communicate both listen and talk
 - Explain why change is necessary and elicit feedback
- You will likely need to deal with more resistance than the management realizes
 - Plan for it and identify it early on -- and your chances of success will rise substantially

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Caveats

- Some may argue that BPM activity does not always involve change
 - "We're just automating an existing process"
 - In reality, all BPM activity involves change
- Change can be a win-win
- Yet change is often/usually managed very badly
- · Nobody changes without a good reason
- · Friction is normal as is conflict
 - Don't avoid it altogether





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	3PM Specialist Track
	bom ^s
	The BPM Project → Business Case alim specialist Stakeholders → Gathering Requirements → Process Design Best Practices
	Process Design Human Factor → Implementing Change → Change Management
	Monitoring → Improvement Methodologies → Enterprise BPM
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Costs

- Costs per process completion (*time to execute a customer order, resolve a query, dispatch goods, etc.*)
- Provides analysis as to whether specific cost related activities need to be built into the process (*approval levels, for example*)
- Time/Costs need to be accurately factored into the process model to have real value
 - Assumes you have complete and accurate data here
- Use with caution
- Apply same concepts to revenues, with same caveats

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General Tasks and Processes

- Tracks the status of specific tasks
- Where things are in the process
- To be of value needs to be highly accurate and in near or real time
- Can give an indication of the length of time left to complete a process



User Workload

- How much work has Alan or Role Y done this week/month/hour?
- How long does it take them to complete a task?
- How does this compare with Paul or Role W?
- How many overdue/backlog tasks do they have - can I reallocate this work?









Notifications and Alerts

- Generated automatically by the BPM System
- Configured by users of the BPM system
- Typical examples:
 - Number of (new/active/complete) jobs
 - Task level (how many jobs waiting to step through task/overdue)
 - Thresholds exceeded escalation to supervisor
 - System stopped/no response
- Particularly useful for jeopardy reporting
- Usually notification by e-mail























Why Use a Methodology for Process Improvement?

- Processes typically need continuous improvement throughout their lifecycles
- Enterprises can position themselves to respond to changes
 - And give IT a chance to accommodate those changes in a timely manner.
- Enables enterprises to thrive in competitive environments, using proven and standard methods for change



- Appropriate methodologies must be adapted to face hard realities:
- At best about 70% of requirements can be defined in the initial project phases
 - The process itself needs to be continuously improved by disciplined redefinition and refinement









Plan, Do, Check, and Act

- TQM processes are divided into four groups: Plan, Do, Check, and Act
 - Plan: people define the problem to be addressed; collect relevant data; and ascertain the problem's root cause
 - Do: people develop and implement a solution; and decide upon metrics to measure effectiveness
 - Check: people confirm the results through beforeand-after data comparison
 - Act: people document results; inform others about changes; and make recommendations































Ways to Improve

- Put simply, waste elimination is accomplished through Just In Time and Jidoka, maintained through Standardized work, and improved through Kaizen.
 - Just In Time (JIT) Producing what is needed, when it is needed, in exactly the amount needed.
 - Jidoka The ability of production to be stopped in the eventuality of a problem, either by the machines themselves or people.
 - Standardized work Standardize procedures concentrating on the most efficient human movements and work sequence for each process.
- In summary the idea is to reduce waste through the application of a variety of process improvements





When to Use?

- TQM
 - When your enterprise is looking to build strong products and relationships.
 When you are looking to develop smooth, elegant and timeless processes
- Lean
 - When you have defined processes and want to improve efficiencies by reducing waste elements from your processes. Typically in manufacturing scenarios.

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- Six Sigma
 - When you have corporate support to focus on error reduction - and you want to empower your employees to take control of this reduction process
- BPR
 - When you are making a strategic shift and need to re-orient your process(es)
 - When you <u>need</u> to change fast

alim business process management Caveats Six Sigma - Can involve a lot of training - Can seem highly complex Hierarchy system can be a challenge in the corporate culture Can appear to be overly focused on manufacturing sector TQM - Can be difficult to get equal support from all improvement layers - Often associated with (and mocked for) "enthusiastic and motivational" approaches to Improvement Can be difficult to allocate effort to priority issues © AIIM All Rights Reserved





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alim business process management **Further Reading** Total Quality Management: Strategies and Techniques Proven at Today's Most Successful Companies (Portable Mba Series) by Stephen George and Arnold Weimerskirch TQM: Text with Cases, Third Edition (TQM: Text with Cases) by John S Oakland TQM in Action : A Practical Approach to Continuous Performance Improvement by R.J. Pike and R.J. Barnes The Six Sigma Way: How GE, Motorola, and Other Top Companies are Honing Their Performance by Peter S. Pande et al, Robert P. Neuman, and Roland R. Cavanagh The Certified Six Sigma Black Belt Handbook by Donald W. Benbow and Thomas M. Kubiak Implementing Six Sigma: Smarter Solutions Using Statistical Methods, Second Edition by Forrest W. Breyfogle III Reengineering the Corporation: A Manifesto for Business Revolution (Collins Business Essentials) by Michael Hammer and James Champy Beyond Reengineering: How the Process-Centered Organization is Changing Our Work and Our Lives by Michael Hammer The Reengineering Revolution by Michael Hammer © AIIM All Rights Reserved





Introduction

- Interdepartmental process improvement is qualitatively more difficult than departmental
 - Some departments may not assign adequate resources
 - Competing projects sap energy
 - Fundamental disagreements about scope and nature of change
 - Uneven distribution of expertise
 - Much spinning of wheels across the enterprise, or
 - Lots of little wins, but no big ones
- Enterprises can address this more systematically through BPM maturity analysis and roadmaps
- Some sort of governance framework is needed
- The practice of Enterprise Architecture can add value here












Sall	nple BP	MM As	sessm	ent	Ques	tion
Strate	gic Intent					
Process decisio	ns are made by p	eople that have i	nfluence over fir	al proces	s outcomes.	
1	2	3	4		5	N/A
Strongly disagree	Disagree	Neutral	Agree	Stron	gly agree	
					I	
Opera Rate the way in	ational Pra	CTICE ecisions are ma	de on the basis	of your	i	
Opera Rate the way in	ational Pra	ICTICE ecisions are ma	de on the basis	of your	High	
Opera Rate the way in Awareness	ational Pra	CtiCe ecisions are ma w 2	de on the basis Average 3	of your	High 5	N/A
Opera Rate the way in Awareness Understanding	ational Pra which process d Lo 1 1	ICTICE ecisions are ma w 2 2	de on the basis Average 3 3	of your 4 4	High 5 5	N/A N/A



alim business process management **A Critique of Maturity Models** Don't incorporate ethical dimension ٠ Same approach is not always ideal for both description and prescription Maturity models rarely make explicit connection between process maturity and business outcomes - Tend to underplay strategic alignment in favor of building general capabilities - When not aligned to explicit business value, they tend to generate busy work Stage-gate approach over-emphasises intra-state synchronisation - "Everything needs to be at Stage 1 before we leap the gate to Stage 2" - not realistic in the real world All Rights Reserved © AIIM |

Maturity Model Best Practices

- Remember that there are many maturity models to chose from
- The best model/diagram is the one that most persuasively communicates business opportunities to executives
- More important to begin an process improvement assessment than to dither over approach
 - While sometimes disparaged as insufficiently solutionsoriented, a good assessment can help the whole team get on the same page with a common understanding and vocabulary
- Use models to communicate that process improvement is not a project, but a way of doing business





all business process management **PMO-based Governance** Project Management Office (PMO) as governance mechanism - PMO: Structure for standardizing project practices and facilitating project portfolio management, as well as fostering methodologies for repeatable processes Also known as "Project Offices" or "Centers of Excellence" - Latter implies domain knowledge, but you want that in a PMO, too Benefits: Ensure consistency and standards to projects Apply best practices Supply knowledgeable resources Align projects with business objectives · This needs rigorous attention © AIIM | All Rights Reserved

What PMOs Do

- Establish policies and standards
 - Implementation methodologies and notations
 - Development platforms and integration protocols
- Prioritize BPM projects
 - Typically: the most achievable first
 - Look for feasibility, impact, sponsorship
- Enforce rules
 - Conduit to executive authority
- Maintain best practices
 - Process libraries, process best practices, process metrics







Alternative to PMO Approach

- "Value Chain Management Team"
 - Looks across silos at core business problems and opportunities
 - Deal with basic business objectives (order-to-cash) rather than "easy wins"
 - More of a "red"/"tiger"/"SWAT" team than a standing administrative body
 Avoid PMO "cocoon"
- Includes two tiers
 - Executive Board (4-6 senior leaders)
 - Design Team
 - · Mixture of line business leaders and process improvement experts
 - · Oversees projects and draws internal and external resources as necessary
 - · But focus remains on business management rather than process management

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<section-header>Covernance Best Practices Covernance Best Practices Overnance of a governance structure than to figure out which type to build Tying program to core business drivers is the best assurance of executive attention and success

Classic EA a' la Zachman						
	Data	Function	Network	Feople	Time	Motivation
Scope (contextual)	List of things important to the business	List of processes the business performs	List of locations in which the business operates	List of crganizations important to the	List of events/ cycles sigrificant to the business	List of business goals/strategies
Planner	entity= class of business thing	process= class of business process	node= major business location	Eusiness people= major organizational unit	time= majo: business event/ cycle	ends/means= major business goal/strategy
Business model (conceptual)	Semantic Model	Business Braces Model	Business Iogistics system	Workflow model	Master schedule	Business plan
	entity= business entity rolationship= business	process violei process business process I/O= business	node= business	people= organization unit	time= business event	end= business objective means= business
Owner	relationship	resources	Link= business linkage	work= work product	cycle= business cycle	strategy
System model (logical)	Logical data model	Application architecture	Distributed system architecture	Human intorface architecture	Processing structure	Business rule model
Docionar	entity= data entity relationship= data relationship	prccess= application function I/O= user views	node= I/S function (processor, storage, etc) link= line characteristics	people= role work= deliverable	time= system event cycle= processing cycle	end= structural assertion means= action
Designer			charactensucs			assertion
Technology model (physical)	Physical data model	System design	Technology Architecture	Presentation Architecture	Control structure	Rule design
Fuilder	table/etc. relationship= pointer/ krv/etc.	function I/O= data elements/ sets	software link= line specifications	people= user work= screen formats	tme= execute cycle= component cycle	end= condition means= action
Builder						
representations (out-of-contex:)	Data definitions	Program	Network arch tecture	Socurity architecture	Timing definition	Rulo specification
	entity= field	process= language statement	node= address	neonle= ideatity	time= interrupt	end= sub-condition













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Exercise: BPMM Assessment	
Image: Series Process Image: Series Pro	
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What are Ethics?

- · Ethics is difficult to define
 - In essence it is doing what is right as opposed to what is wrong
- Taking an ethical stance is not the same as:
 - Following the law (laws can be wrong -- for example slavery and torture)
 - Doing what society believes to be acceptable (society is not inherently ethical)
- Taking an ethical stance entails recognizing obligations, rights, fairness and common decency
- Corporations want to make and grow profits
 - But they should do so ethically













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The Case for Monitoring
 Typical BPM monitoring requirements How long does it take to do a task? How many tasks are undertaken in a specific time period? Who is doing what - and when? How many keystrokes - how many bathroom breaks (and for how long)?
There is good logic to this
 Enterprise pays for 8 hours of work and wants 8 hours of work delivered
 Employees work on enterprise premises, so their time and attention should belong to the enterprise whilst at work
 Enterprise is accountable and liable for the activity of the employee and has an obligation to protect itself
 If employees are working hard and doing right, they have no reason to be concerned
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Ethical Questions Posed

Because it is legal - does not always make it ethical

- Question: Are you paying by the hour or are you paying for value?
- Question: Is monitoring the only or best way to gather information?
- Question: Does the same degree of oversight apply to managers as well as blue collar workers is this fair?
- Question: If you are monitoring activities, do the employees know you are doing this, or are you doing it behind their backs?
- Question: If you can behave in a less than open and honest manner could your employees reward you in a likewise manner?

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all business process management **Privacy Best Practices Recognize Business Process Improvement frequently** raises new privacy challenges Be especially mindful of data capture and flow in your process models - New data from customers (or employees, or partners) - Data crossing internal or external business units - Data crossing legal jurisdictions (especially international) Data getting stored in new repositories Metadata becomes increasingly vital in processing personal information securely - But also needs to be protected itself All Rights Reserved © AIIM

More Best Practices

- At a base level, understand the legal requirements around privacy and monitoring
 - These vary from country to country
- Leverage the decision rules in your BPM to enhance security
 - For example, only reveal certain data at certain steps
 - Many non-BPM tools cannot do this
- Use the tool to apply controls and audits
- But don't rely overly on systems
 - Systems can be compromised
 - You need human oversight











Some Ethical Dilemmas

- Improved Efficiency can bring unexpected results
 - Old inefficiencies provided an efficient cloak for a comfortable status quo
 - New way of working exposes old tricks
 - New efficiencies impose more transparency and less to hide behind corporately
 - Once exposed, push back can come in all forms
 - But not always in an honest guise

- Business expectations may clearly exceed the project's potential
 - Interested parties oversold the project at the outset
 - Do you expose this at an early point, or continue knowing the project will fall short?
 - Does everyone know that the project will derail, and use this for their own ends (delay outsourcing, for example)

These are fundamentally issues of integrity

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alim business process management **Dealing With Ethical Issues** 12 questions 1. Have you defined the problem accurately? 2. How would you define the problem if you stood on the other side of the fence? 3. How did this situation occur in the first place? 4. To whom and to what do you give your loyalty as a person and as a member of the corporation? 5. What is your intention in making this decision? 6. How does this intention compare with the probable results? 7. Whom could your decision or action harm? 8. Can you discuss the problem with the affected parties before you make your decision? 9. Are you confident that your position will be as valid over a long period of time as it seem now? 10. Could you disclose without qualm your decision or action to your boss, your CEO, the board of directors, your family, society as a whole? 11. What is the symbolic potential of your action if understood? misunderstood? 12. Under what conditions would you allow exceptions to your stand? (adapted from: Nash, L. (1981). Ethics Without the Sermon. Harvard Business Review) All Rights Reserved © AIIM









Dealing with the Unexpected

- You can never know everything but you need to be sure that you have sufficient checks and balances to avoid obvious illegality or non-compliance
- Personal and System dynamics are a reality things will not always react in ways you expect - but you need to show and prove that you at least tried to identify major risks and mitigate against them upfront
- Not everything can be seen but we need to recognize that what we can't see can hurt you
- Mistakes happen, but obvious mistakes should not our goal should be to reduce uncertainty



Wrapping Up

- All BPM deals with complexity motivations and destination can differ
- You need to be clear on your ethical stance, and that of the organization you are working for
- · Be honest about conflicts and raise concerns immediately
- Not everyone is honest and many simply don't consider the impact of their actions
- Technology can be used to hide as well as reveal
- If you are ethically conflicted then you need to resolve the conflict or move on you should never ignore it
- Ethics are seldom clear cut right versus wrong don't just jump to conclusions

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Apply What You Have Learned Case: Stage C

Instructions

Tasks: 3 Teams

It is clear that things have gone very wrong. Consider the change management implications of Joe and Herbert's actions. How would you have gone about this differently – how could you have managed the situation more constructively?

Team A: Develop an alternative project management plan across the full lifecycle of a business process improvement effort, including addressing change management.

Team B: Elaborate a suitable governance structure to get the project back on track.

Team C: Identify potential ethical issues and suggest an approach for dealing with them.

Further Reading

- Business Ethics: Case Studies and Selected Readings by Marianne M. Jennings
- Business Ethics by William H. Shaw
- Harvard Business Review on Corporate Ethics (Harvard Business Review Paperback Series)
- Case Studies in Information Technology Ethics by Richard A. Spinello
- Ethics in Information Technology, by George Reynolds
- Society, Ethics, and Technology by Morton Winston and Ralph Edelbach
- Ethics in an Age of Technology: Gifford Lectures, Volume Two (The Gifford Lectures 1989-1991, Vol 2) by Ian G. Barbour







BPM Choices

- Not all business process improvement efforts should be treated the same
 - Even within an enterprise, may require:
 - Different methodologies
 - Balancing long-term strategic gain and short-term practical fixes
- One approach will not fit all, but we cannot be ad-hoc either
- Different ways of categorizing BPM projects
 - Type of project
 - Type of process
- Key is to perform proper scenario/use-case analysis, then proceed from there







Process Driven Approach

- Process improvement team investigates business from process perspective
 - Proactive search for improvement
 - Can sometimes seem like justifying busy work or a PMO or a new methodology
- Strong emphasis on best practices, metrics, and continuous improvement
- Typical drivers
 - Reducing expense ratios
 - Improving quality
 - Improving customer satisfaction









Some Lessons

Simulations are always useful, but essential when implementing complex rules engines

- Cannot fully predict what will happen in "live" environments

- Exception handling was the hardest part, but likely where the most efficiencies were achieved
 - System escalated potential solutions to managers along with each problem
- Some logic from the integrated modeling tool could be implemented automatically in the BPM process engine
 - But coordinating with line IT systems in different departments required integration work, including coding custom connectors
- The BPM system itself needs care and feeding
 - This is an additional expense in the picture

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2) Customer Service Crisis

Wealth Management Company

- · Sells financial products through intermediaries
 - Develops promising new product



• Management does not wish to revise product processing until it is proven in the marketplace

Problem

•

- Processing new product orders proves unwieldy
- Manual work-arounds create high error rates and delays
- Distribution channel virtually stops selling product

The Solution

- New COO authorizes "tiger" team to address problem within one month
 - No new technology could be applied
 - Bring 30% error rate to zero
- · Team Leads recruit members from existing staff
 - Set performance targets
 - Staff given broad leeway in how to resolve problems

Results

- Backlog cleared in five weeks
- Error rate to zero (team accountability and checking)
- 300% increase in sales as channel confidence restored







Some Lessons

- WCMS allowed team to get organized, but they needed a commitment to organize
- Simple act of categorization made the tool much more powerful
- Staff still needed to be trained and supported (additional overhead), and work re-oriented
 - Emphasis on librarianship skills probably better suited for the mission in any event
 - Real-time newsroom culture adopted better by some than others
 - There was immediate feedback on benefits of new system – Producers could see new information go live upon approval
- Security of publishing mechanism enhanced by replacing multiple engineers with one system login to live server
 - Although system itself needs to be properly secured

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Why Things Go Wrong

Failed BPM projects tend to suffer from familiar shortcomings:

- No business plan
- Inadequate executive involvement
- Lack of analysis of existing processes
- Application of wrong software for the problem
- Imperial overstretch: trying to accomplish a megaproject in one go
- No change management plan
- Insufficient job and organizational change to accompany process change


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Image: Apply What You Have Learned Apply What You Have Learned Exercise Instructions Task – Total: 90 minutes The instructor will divide you into two groups – each group should then sub-divide into units to represent R&D, the consulting team, Assembly, and Dispatch (depending on numbers, some role members may need to wear more than one hat). The consulting group should be the largest, as they will have to lead the creation of flowcharts and recommendations, for the entire team to validate.

Take the initial information provided in the case study and role play a joint requirements gathering exercise (remember its role play, so use your imagination!).

With the information you gather – build a detailed flow chart of the current As Is situation – and identify key areas for streamlining or redesign (Time permitting draw a To-Be situation recommendations. Identify expected business benefits.





















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Enterprise Mashups?

- More discussion than action
- Some early experimentation looks promising
 - Example: Combining private XML feeds from Salesforce.com into SAP dashboard (and vice-versa)
- Simple integration by any other name, but
 - Happens over a network
 - Uses standard web protocols
 - Uses very lightweight methods and models (e.g., RSS)
 - May integrate public and private resources
- More oriented towards information integration, but process integration is the next logical step
- Presages a trend in more easily configurable integrations
 - Contemporary portal software is taking this a step further

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BPM Technology Trends

Some emerging BPM technology trends

- Web-based process modeling
 - And increasingly, simulation too
 - Eases collaboration and validation in the modeling process
 - Also opens up opportunities for...
- BPM Software-as-a-Service (SaaS)
 - Already happening in modeling and simulation
- Better integration within BPM Suites
 - Going with less difficulty from model to testing to implementation to monitoring to measuring within the same vendor's product
 - Unlike other software "suites" these are not adjacent technologies but stages in a lifecycle and therefore better suited to real integration (especially at the code level)









The Rise of Collaboration

- Greater focus on managing and monitoring ad-hoc, collaborative, human-intensive projects that are not easily modeled
 - Collaborative (even "social") tagging, rating, and discussion as part of processes
 - More room for dynamic process change at run-time that wasn't anticipated at design-time
 - Greater end-user configurability of systems
 - Mirrors growing trend of "composable applications" in Portals
 - Faster process evolution more generally outstripping static process models



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Home Case Study: Vermont Airways

• Instructions:

- Read the provided case materials on Vermont Airways
- Use standard methodologies and practices identified in the course, and follow proper flowcharting/modeling techniques.
- Answers across the different task segments should be internally consistent (for example, a business case justified on a CDB model should then later not lead to ROI measures of success).
- Select one:
 - Assignment 1: Project Startup
 - Assignment 2: Planning (As is/To be)
 - Assignment 3: Implementation
 - Assignment 4: Continuous Improvement





BPM Masters Class Exercises



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In- Class BPM Case Study



INSTRUCTIONS

The in-class Case Study is broken into 4 phases which we will complete as group tasks over two days. Each phase will last about one hour.

These are group exercises with specific tasks to complete based on what you have learned. For each phase, the instructor will divide you into different teams; those teams may work on the same problem in some instances, and on different problems in others. Each team will need to present their findings to the class.

Work only on that specific phase (do not look ahead to the following phase).

Part A (Specialist Day)

Introduction

Deep House Music has long been seen as the premier home entertainment technology manufacturer. It's audio systems are seen in the homes of successful people around the world and with over 35 years in business, they have cornered a market that not only appreciates high quality audio, but also appreciates the aesthetic design quality of Deep House Music's product range. The products have never been cheap, but the high cost has been justified, in terms of the superior sound quality, construction of the products and the relative exclusivity and cutting edge innovation of the products. The company has grown to support over 300 personnel with most of those located at its headquarters in Reading, England.

The company's motivation to change

The company faces various strategic challenges. Due to unrelenting pressure from US and Japanese audio manufacturers - the technology gap between Deep House Music's products and those of competitors only half the price or less has shrunk. In danger too is the firm's status as an innovator - with more and more buyers moving over to the MP3 music file format, and running their home audio systems from their iPod or Laptops - the Deep House Music brand is looking dated and coming in at an unjustifiably high cost.







In response, the senior leadership has decided to focus its efforts on serving a small but lucrative niche market - and to improve its R&D and product development processes to ensure that they continue to meet the needs of their demanding customers - in other words to move back up market. However, the firm recognizes that they have been very slow to react to the changing market, and costs will now also need to be trimmed as profits have fallen and continue to fall. Deep House Music needs to create major improvements in their current processes, quickly, to turn things around.

The Firm

Deep House Music is situated in Reading, England - just outside of London and within easy reach of Heathrow Airport. It employs approximately 300 staff with 260 of them at the Reading headquarters. Most of the staff have been with the company for years if not decades, and the firm credits itself with having a loyal and dedicated workforce. Deep House Music has won awards for being a '*desirable employer*.' All R&D and all final assembly of the products is undertaken in Reading, with many parts procured and manufactured overseas.

The majority of Deep House Music's customers are based in Germany and the US, where the firm enjoys a dedicated following amongst well-off and design-conscious audiophiles.

Of the 260 staff at Reading approximately 60 are designated as managers – with 80 employed in the assembly, warehousing and dispatch divisions – alongside the remaining corporate personnel in sales, accounting, customer support, marketing, and human resources.

The R&D department employs some of the most experienced audio designers available, some of whom have worked all their careers at Deep House Music. They continually test and develop new approaches and new products – releasing a major upgrade (new product) approximately once every two years. The R&D staff of 10 work separately from the rest of Deep House Music, with dedicated test and development facilities. Some of the designers have won the highest awards in their industry for their work and are considered the cornerstone of Deep House Music's past success.

The production teams are split into groups/teams - building speakers, accessories, amplifier units, and control systems. A separate group then QAs the output of these teams, and approves units for collation and transfer to packaging and then to the warehouse ready for dispatch. Error rates are considered to be quite low - running at around 15% of output being discarded or rebuilt. Due to seasonal peaks and troughs, the firm tends to carry a surplus stock in its warehouse - a stock that due to competitive pressures in the marketplace has grown substantially over the past year.

Once assembled and boxed - the dispatch department sends each individual unit to its destination - usually directly to retailers in Europe or the US, but sometimes directly to consumers who contact the firm individually via phone, letter, or email to purchase units.

Deep House Music has strong partnerships with its component suppliers, and has worked with some of its leading suppliers for many years. These suppliers are in the main located in Germany and Japan. Senior Managers travel once a year on average to visit these suppliers and ensure the relationships are strong and remain effective.







Marketing is run by 3 people in Reading, who outsource much of their activity to an outside advertising agency, and occasionally to a design firm to help with packaging design.

Product support is also based in Reading - 6 people work on this element of the business: 2 that handle the receipt and management of the issues, and 4 that undertake repairs to the units.

TASK: EACH TEAM

As a group take 40 mins to identify some strategic *business benefits* that a business process improvement project could bring to this firm. Do this in the form of a simple business case that could be summarized in the form of basic powerpoint slides. In your business case, be sure to elaborate in terms of value, efficiency, and risk reduction. Decide whether a Return-on-Investment or Cost-of-Doing-Business approach would be more persuasive. Identify likely cost and risk factors in addition to benefits. Identify the ideal make-up of the Project Team.







BPM Case Study - Part B (Specialist Day)

Evolution of the situation

In January, the board of directors decided that an internal consulting team needed to be formed to identify where costs cut be cut to improve profitability. At the same time they asked for the team to look at general efficiency gains that could be made in the production environment. A rising manager *Joe* was asked to head up this taskforce and provide it with executive sponsorship and to report back at the April AGM on improvements to date.

Joe decided quickly that due to the sweeping remit he had been given that in the initial stages at least it might be best to keep the project under wraps, and undertake the initial requirements gathering in a discrete manner. He co-opted *Herbert* a bright young graduate from Accounts Payable to work with him and be his project lead. Herbert then undertook the work of confidentially interviewing one key person in R&D and one in Assembly to gain a basic understanding of the current situation in these departments. The information they gathered proved to be substantial and they were able quickly to recognize that one group in particular were working in a highly inefficient manner and that improvements should be fairly straightforward to come by.

Herbert and Joe, sketched out a potential redesign of both the assembly and distribution processes - with the new process making much more extensive use of technology than was currently the case. New technology would track and monitor orders and stock closely and potentially reduce the time and cost taken to produce units. The proposed redesign would require a lot more work and analysis, but the basic outline was agreed between them, and presented to senior staff as a potential way forward at the April AGM.

TASK: Each Team

Take 40 minutes as a group to brainstorm how *you* would go about gathering the initial requirements and structuring this first phase of the project. What techniques would you apply, in what order, and why? What improvement methodologies might be applicable to a firm like Deep House Music - why?







BPM Case Study - Part C (Masters Day)

At the AGM, the proposed process redesign work was quickly and enthusiastically approved, and budget allocated to build a project team, and fund information technology acquisitions. It was recommended that in the interests of open-ness and good management that the project be presented to the staff as quickly as possible, and that a 'Town Hall' style meeting, involving all staff giving them an open forum to discuss and share their views would be a good way forward.

In May the open forum was assembled, and things did not go well - the staff rebelled, there was a great deal of anger expressed, and even a threat of an all out strike. In the meeting various views were expressed and information provided including:

- That staff have been working to long ago approved procedures, that have been rigidly enforced by supervisors and lower management.
- Complaints from staff about inefficiencies and suggestions for improvement have been long ignored.
- That morale is low, and has been for a year.
- That R&D felt angry and hampered by managements iron grip on suppliers and have had to make many compromises in design
- That things had come to a boiling point in spring of this year and that key members of staff had left, or were planning to leave as a result

TASKS: 3 Teams

It is clear that things have gone very wrong. Consider the change management implications of Joe and Herbert's actions. How would you have gone about this differently – how could you have managed the situation more constructively?

Team A: Develop an alternate project management plan across the full lifecycle of a business process improvement effort, including addressing change management.

Team B: Elaborate a suitable governance structure to get the project back on track

Team C: Identify potential ethical issues and suggest an approach for dealing with them.



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BPM Case Study - Part D (Masters Day)

Herbert's Notes

Interview with Jolene - Production (Bass Units) Supervisor 7th March

The production group is split into 7 groups :-

- Control Unit Assembly (24 people)
- Cables and Accessories (6 people)
- Bass Unit Assembly (12 people)
- Speaker Assembly (10 people)
- Testing & QA (6 people)
- Packing/Despatch (8 people)
- Warehousing (6 people)

The groups all work in two alternating shifts - Early 7am-3pm and Late 12-8pm - peaking with a full team at Midday to 3pm.

Each group works separately and once they have completed assembly of a unit - moves it to the Testing/Packing area of the factory - here all the individuals components are pulled together to form a single product unit, stickers added where appropriate along with instruction books and other literature - wrapped and boxed. Prior to sealing the box some units (approximately 1 in 20 are selected for Testing and QA) - once complete the QA, the units are then either returned for sealing - or rejected. Once boxed and sealed - the units are moved to the warehouse for storage until being dispatched to buyers. Dispatching occurs twice a day - once at 11am to catch the 1pm Express pickup - the other at 3pm to catch the 5pm Express pickup.

Each individual group has a supervisor who line manages the team – each team member has a specific task that they undertake – for example (*screwing components to the product shell – wiring elements – or soldering wires to circuits etc*)

Most component elements (*circuits/switches/boxes etc*) are pre-built and ordered in bulk - they are stored in the warehouse - a stock is signed out by each shift group, and remainders checked back in at the end of each shift. Damaged or defective component elements are listed in a log, and disposed of.

Jolene estimated that approximately 500 complete products are assembled per week. She said that QA had told her that error rates of tested units was around 15% and that this was considered normal for the industry.

Jolene said she thought that particular improvements could be made in the *Control Unit* assembly process, as often production of product elements was considerably higher in other groups, and as such stockpiles of Bass Units, Speakers etc occurred – she said she was not sure if this was due to poor leadership or a lack of motivation – she stated that most other teams were

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very motivated and enjoyed working at Deep House Music, and were proud to be a part of audio system history.

Interview with Hank - Research Manager 10th March

Hank has been with us for over 20 years, and has designed 10 different systems for us. He told me the team is very experienced, and works well as a separate unit, able to track trends in the industry and take best practices and emerging trends, incorporating them into our newest products. There are no specific processes as such for R&D as that would be counter to the creative nature of the work they have to do – he has stayed within his allocated budget every year. He did say that they work best when allowed to do the work asked of them, and when there is no interference from 'corporate' – he stated that the base design of our systems has fortunately stood the test of time, and their work today was as much about refining the system, rather than radically designing a new system.

What process there is can be summarized by the group being given a mandate to create a new system once every two years - and that designs and prototypes are created within the group - and once tested, are presented to senior management for approval. Once approved, designs and orders are sent to component manufacturers and assembly supervisors briefed on the changes to the unit - along with cutover dates for the new system to become active.

Overall, from the time I spent interviewing Hank and looking at the departments work, it would suggest we allow their work to go ahead as it currently does, they have won many awards and stay within budget - I doubt we will find our cost savings here.

Recommended Improvements

Joe and Herbert's high level recommendation for quick win cost reduction and process improvements:

- Change the current shift overlap system to a day and night shift to boost productivity
- Move from a paper based order and unit tracking system to a computerized system
- Move the current assembly process to a linear process so that unit components are assembled serially avoiding over assembling some unit elements and causing stockpiles to accumulate
- Move to a computerized Express shipment system and dispatch just once a day

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• Undertake testing and QA prior to boxing the systems

Part D: Task -- total: 90 minutes

The instructor will divide you into two groups, each group should then sub-divide into units to represent R&D, the consulting team, Assembly, and Dispatch (*depending on numbers some role members may need to wear more than one hat*). The consulting group should be the largest, as







they will have to lead the creation of flowcharts and recommendations, for the entire team to validate.

Take the initial information provided in the case study and role play a joint requirements gathering exercise (*remember its role play so use your imagination!*). With the information you gather - build a detailed flow chart of the current As Is situation - and identify key areas for streamlining or redesign (*Time permitting draw a To Be chart*) - along with bullet pointing key improvement recommendations. Chose an improvement methodology for your project and incorporate this into the To Be situation recommendations. Identify expected business benefits.



BPM Masters Class Home Case Study



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Home Case Study: Vermont Airways

Background

Vermont Airways was formed in 1997 to provide an extensive carrier program that would serve primarily North East and Central US Regions, with partner connections onto the rest of the world. The firm was formed out of the acquisition of two small regional airlines that had fallen into bankruptcy.

Headquartered in the city of Quechee, Vermont, the airline currently serves 20 airports in the US, with around 300 daily departures. It has regional hubs in Boston, Philadelphia, Washington, Minneapolis, and Chicago.

Vermont Airways is not a particularly large airline compared to competitors such as American Airlines or United, and it has relatively modest footprint, even via its partner network outside of continental USA. However the firm does employ around 2,200 staff.

World events such as the rising price of fuel, global security threats, and increased governmental oversight programs have impacted the firm. And though not large in comparison to many other airlines, the firm has garnered a strong reputation for reliability and comfort and is something of a local favorite and certainly an important regional employer.

Still, times are tough for Vermont Airways, and pressure is on to make a strategic move. The Board of Directors have decided to move the company beyond its small but loyal base – to bring in new approaches, new airplanes, and grow its route network. But Vermont Airways is cashstrapped, and will need to balance initiatives against savings elsewhere. The CFO has demonstrated that the company has not hopes in the near term for a large injection of cash, as the firm already carries considerable debt.

The divisions and differences between the two firms that originally formed the new Vermont Airways have long dissipated; however, it took a long time to unify the systems and procedures of both. The technology that was introduced in the 1999/2000 period has become dated and new demands of regulation, customer expectations for online booking access, and the sophistication of new airplanes and updated maintenance procedures demands an overhaul.

Although it seems evident that Vermont Airways' technology will need upgrading, the company recognises this will be a huge task – and one that could cripple the company if it fails. Driving the need for change then are the following (somewhat conflicting) business drivers:

- The complexity and difficulty in meeting information demands relating to increased security measures
- The complexity and difficulty in meeting information demands relating to aircraft maintenance and safety
- Customer demand to be able to book tickets and manage flights on line

• Creating a more flexible organization that can make use of resources on demand

BPM Certificate Program





- to react in a timely manner to issues and events
- Automating many currently manual activities to increase efficiency and reduce costs

As a first step the Board has decided to fund a special project to kick start this initiative under the executive command of the CIO. The CIO in turn has in turn appointed a Program Director for what is being called the *2010 Initiative*.

The CIO has correctly noted that not only are the IT Systems dated, they are often not utilized as they should be. A great deal of data is missing, or located on local hard drives, and that many processes are undertaken using paper forms, with information only infrequently re-captured and input to the system. This raises serious accountability issues that concern the CIO deeply, indeed should Vermont Airways be audited by the U.S. Federal Aviation Administration (FAA), the firm could be fined, or worse closed down. Worse still, the CIO is aware of a great deal of anecdotal evidence that Safety and Maintenance information that is distributed electronically is not being accessed or utilized.

The CIO has expressed to the new Program Director that the *2010 Initiative* needs to be all encompassing, building a structure that will be agile and flexible seeing the firm through the next 10 years, but that it also needs to be focused with issues prioritized. This will be difficult, since Senior Management in Quechee, to airline crews, to regional support teams all have different ideas about what is important. The CIO has also stressed that is little in the way of new funds available - that money will have to be made available by finding savings elsewhere. Any available funding is operational, for running the project, rather than capital investments in new technology.

With respect to technology, Vermont Airways has always purchased what it considered best of breed technology, and today runs a wide variety of database and operating systems. Fortunately, though, the firm does have a centralized financial, HR and Logistics systems (albeit from different vendors). Ticketing has been outsourced, and the main form of communication remains the phone, due to connectivity issues at airport locations – although email has grown dramatically for office based staff.

There is no doubt that procedures and processes across the firm need a major overhaul, but this is difficult in a firm that is always operating – there can be no down time. For the Program Director, this is a career-making opportunity to essentially turn around the fortunes of Vermont Airways. For the company itself, the program simply must succeed.

Hence, this major Process Improvement exercise will need to be closely managed, aggressively driven and deliver benefits quickly, without compromising safety, operational, or regulatory requirements.







Vermont Airways - IT Systems



Vermont's IT infrastructure is dated and runs on a variety of operating systems – likewise it utilizes various databases and versions. Connection to the back end systems is user driven, via terminals at airport and office locations. Typically once accessed, staff prints out and collates information – or phone calls made to staff to transfer the information.







Vermont Airways - Organizational Structure

The organization of Vermont Airways is loosely structured as follows (*we have not listed operations such as Sales & Marketing, Accounts etc for reasons of simplicity – however non listed departments may be of importance*):



Note that the organization structure of Vermont Airways mirrors typical industry standards that have been approved by the FAA.







Vermont Airways Issues and Observations

(Your role: Program Director)

Following an initial day-long meeting with the CIO you have established that this process improvement project will be exceedingly difficult. At a high level you have established that:

- There is little interaction or co-operation among departments or even groups within departments the firm resembles a number of separate companies that perform discrete functions.
- To get up to date information you need to know the right person to ask rather than there being in any order or procedure to find that information
- The company relies on the knowledge of a small group of supervisory level workers who have been with the airline for 10 years plus
- Information resides all over the enterprise and it takes a lot of effort to locate it
- Many processes are only known to a small number of people, in many cases one person, and few if any are documented
- Email is the most common information store

- There is heavy reliance on paper manuals and documents including Cockpit Operations Manuals, Flight and Aircraft Operations Manuals
- Some groups have lost patience with IT and have begun their own initiatives using Microsoft SharePoint to share information
- Ground Operations Manuals change on a daily basis due to incoming information from the FAA and U.S. Transportation Security Administration (TSA) regarding safety and security issues
- Morale is currently quite low due to concerns about the Airline's future, and a squeeze on wages over the past few years







Assignment 1: Project Start-Up

The CIO has appointed you the Program Director for his *2010 Initiative* a major project that will look at improving the business processes and bring about greater efficiencies and cost reductions for Vermont Airways. Therefore you have been tasked with:-

- Outline the business case for the early stages of this major undertaking, and provide a brief narrative rationale, using charts as necessary to justify your presentation to Vermont Airlines executives
- Identify project phases and outline a project management plan that identifies the scope of the project and prioritizes areas to tackle first
- Identify potential key stakeholders (internal and external) and categorise them
- Identify and justify a business improvement methodology that will be used, or explain why you will not employ one.

Due to the urgency of this work, the CIO has only given you 10 weeks to undertake the above tasks. He understands that within that time only limited progress can be made, and that you will need to make assumptions (*though these need to be documented and supported*) to move forward so quickly. You have been cross-assigned analysts or other representatives from the major business units identified in the organisation chart above.





Assignment 2: Planning (As Is & To Be)

The business case has been approved and you now have the budget to build a full project team and undertake a significant requirements gathering process. You have the support of the board of directors to move forward - however they want the project accelerating and expect recommendations back within 16 weeks.

Therefore your team has been tasked with the following:-

- Identify and justify specific methods to capture process requirements
- Flowchart a prioritized process that you believe needs urgent attention
- Analyze the chart for potential areas of improvement, applying simple notes to the chart itself, or as a brief separate narrative
- Create "To Be" chart for a prioritized process, showing not just the process flow, but the complete model for the improved process

Due to the urgency of this work, the CIO understands that within that time only limited progress can be made, and that you will need to make assumptions (*though these need to be documented and supported*) to move forward so quickly - therefore your deliverables need to reflect the overall picture, but should drill down into only one specific process in detail.





Assignment 3: Implementation

The recommendations have been approved, and you need to move ahead quickly to implement the prioritized process improvements.

Therefore your team is tasked with:-

- Outline technology assessment, test, and implementation plan; identify what existing or new technologies will be employed, and why
- Outline a change management plan, identifying the types of change likely to be encountered, organizational impact, a particular change management methodology to employ
- Chart a risk mitigation and cost-containment plan

The CIO wants to get the first changes to the business made within 8 weeks - and wants to see a rolling forward plan for the next 12 months. Due to the urgency of this work, the CIO understands that within that time only limited progress can be made, and that you will need to make assumptions (*though these need to be documented and supported*) to move forward so quickly - therefore your deliverables need to reflect the overall picture, but should drill down into only one specific process in detail.





Assignment 4: Continuous Improvement

You successfully planned for a period of continuous improvement once the project elements had 'gone live'. Your team is tasked with:

- Document what you will continuously monitor and how, listing key metrics
- Identify the results of the project and evaluate those against the original business • objectives. What business improvements were achieved? Which were not?
- Having completed the project, assess Vermont Airway's enterprise BPM Maturity Level and • identify whether and how you should improve internal business improvement capacity in the context of larger 2010 Initiative program goals

You will need to make assumptions (though these need to be documented and supported) to move forward so quickly - therefore your deliverables need to reflect the overall picture, but should drill down into only one specific process in detail.





Business Process Management

AIIM Master Class

Handout: Workshop Evaluation Sheet

Name:	Email:
Company:	Tel No:
Job Title:	Date:
Trainer:	Trainer:

We hope that you have enjoyed participating in this programme and found it to be of value to you. Please assist us in our continual drive to improve standards by taking a few minutes to complete the following evaluation questions and adding your scores to the questions overleaf.

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- 2. What were the key points learned?
- 3. What particular aspects do you plan to put into practice at work?
- 4. Are there any aspects you feel you will be unable to practice at work? (Please state briefly your reasons for this?)
- 5. Which features of the workshop were most useful and why?
- 6. Which features were least useful and why?
- 7. How could we improve upon this course?
- 8. Who else in your organisation would you recommend to attend this course?





ADM	INISTRATION	Poor								E	cell	ent	
		1	2	3	4	5	6	7	8	9	10		
	Joining Instructions												
	Training Facilities												
	Meals/Refreshments												
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COU	RSE CONTENT												
	Relevance of course content to my job												
	Impact of what I have learned on my thinking												
1	How well learning points were supported by examples and opportunities to practice												
	Pace and structure of the course												
	Quality of supporting materials												
1	Overall value of the course												
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Please score on a scale Name:						1	lame	e:					
1 = F	Poor to 5 = Excellent												
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1	Communicated with enthusiasm and conviction	n											
1	Appeared to have a sound knowledge of the subject												
÷.,	Invested time to understand our needs												
1	Adapted their training style to suit individual needs and circumstances												
1	Kept good control of the way in which we used our time												
	Encouraged everyone to participate												
1	Understood specific job and organisational demands and related course content to these												
	Supported feedback by specific examples												
	Encouraged us to develop our own action plan	s											
	Quality of presentations					I							

