FRONT END ANALYSIS PLAN

CLOSING THE GAP OF SOFTWARE CHANGE IN AN AEROSPACE COMPANY

IDE 712 FEA Plan Presentation

Beth Woodell Pooja Gupta Raenalyn Loomis

PERFORMANCE PROBLEM CONTEXT



- Major aerospace company needs to replace old ERP system
- Affected: Engineering,
 Supply Chain, Sales
- Affected locations: 3 US cities



- Chosen solution: SAP
- Diffusion activities in progress
- Some departments already use SAP









PERFORMANCE PROBLEM STATEMENT

Current Performance Optimal Performance





Using existing GTS system

To perform the necessary tasks in new SAP software





Importance of Solving Problem



- No system to manage production, or inferior system, leads to illmanufactured parts
- Revenue lost
- Time lost
- Potential for lives lost due to accidents

Intended Audience

For the FEA:

- HR Director or Director of T&D
- IT Director
- Department Heads

For training:

- Engineers
- Sales account executives
- Buyers
- Supply chain managers
- Support staff



Overview of FEA Plan (Using BEM Model)



	1 Data	2 Resources	3 Incentives
Environment	 Need clear and consistent communication. Learners should know what they are supposed to do. Feedback is an important source of data. To be effective, feedback should be frequent, timely, specific, and useful. 	Tools, resources, time and materials provided to the learners that will facilitate expected performance.	In order to effectively stimulate desired outcomes, consequences, incentives or rewards need to have meaning.
	4 Knowledge	5 Capacity	6 Motives
Behavior	 Knowledge and skills are gained through a variety of sources including formal education, training, experience, 	 An individual's physical and mental talents and capabilities to perform. If they don't have the capacity to perform the 	The reasons people do what they do: needs, desires, aspirations, fears, self-esteem, self- efficacy, and a host of other internal

	1 Data	2 Resources	3 Incentives
Environment	 Do the learners know what to do with the new system? Are the learners aware of what is expected? Are the learners provided with timely and appropriate feedback? 	Are the learners provided with tools and time to learn the new system?	 Were the learners affected by the change? How did you motivate them? Is good performance being recognized with any incentives, monetary or otherwise?
	4 Knowledge	5 Capacity	6 Motives
Behavior	 Was the difference between the new and old software communicated to the learners? Were the managers and/or super users completely trained on the software to help 	 At what points during the learning curve did learners receive appropriate performance feedback? 	 Did you explain to your staff the benefits SAP will bring? Did you address learners' fear of learning a new system and

Procedures to collect information

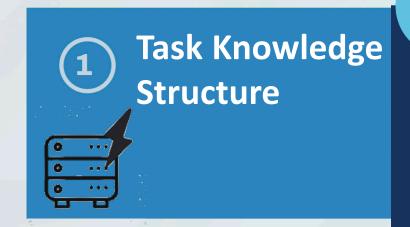
DOCUMENT STUDY

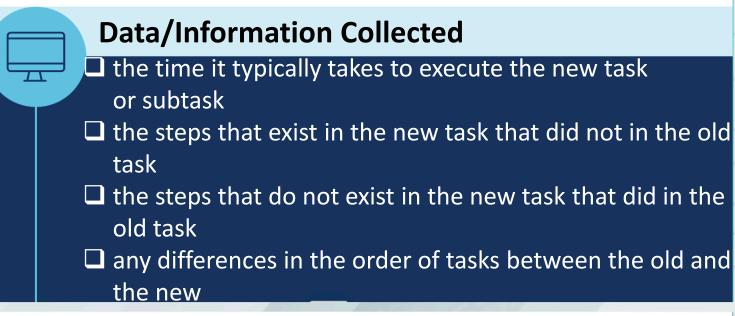
- As-Is vs To-Be
- Flow chart and process analysis
- Job analysis through JDs

NE-ON-ONE INTERVIEWS

- Observing the super users
- Conduct interviews with the intended audience

Data Collection Tools







Data/Information Collected

00

- assessments of the user's experience level in the jobbehaviors that are critical for or detrimental to
 - job performance
- realistic task events in real world settings
- certain important facts concerning behavior in defined situations

Causes and Proposed Solutions

Causes of Slow or Unsuccessful Implementation

New system might have bugs

Need for instruction not properly incentivized

Fear of making a mistake in new system

External events causing instruction to be delayed

Possible Solutions

- Instructor-led training, conducted by an outside SAP expert
- Instructor-led training, conducted by super users in Brightstar's various business streams
- Self-paced e-learning, available by user role in the company LMS
- Publicly available training such as LinkedIn Learning, YouTube videos, and/or training content on SAP's portal
- Deskside coaching by super users, conducted during a transition period
- Documents such as job aids, step-by-step work instructions, and slide presentations

Questions?



Thank You