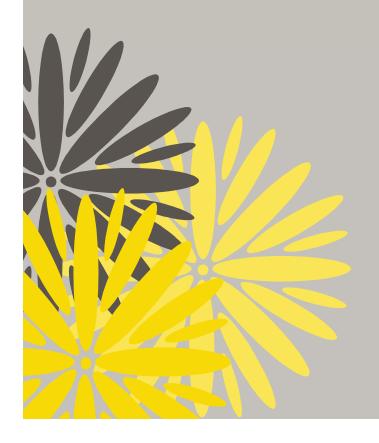
2 MBA Team

Wedding Case Analysis



Operations Management April 25, 2012

Hostetler | Lewis | Panutsos | Zhao | Yang

Introduction & Agenda

1.
Synopsis &
Problem ID

2. Industry Analysis

3.
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Methods

4. **Proposed Alternatives**

5.
Analysis &
Findings

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Introductory Facts & Assumptions

Mary Jackson & Larry Adams

Engaged on March 31

Wedding slated for April 22

Cherry Blossoms needed in Photos

50 guests will be invited [assumption]

Takes place in Washington, D.C. [assumption]

21 days planning time until rehearsal dinner



Bride's Wedding Demands

Ceremony on April 22
Custom Printed Invitations
Church Wedding
Catered reception [Hall]
Wear mother's wedding dress



Jane Summers as MoH [Peace Corps]

Hand-made bridesmaid dresses [Mrs. Watson]

Identification of Problem

Mary and Larry want to have a wedding in 21 days, which is a very short planning period for such an event.

The case provides expected completion times for the tasks involved, as well as potential options to crash some of those times [additional costs]



Scope of Problem & Statement

Team 2's Hybrid Role: Expediter | Wedding Planner

Problem Statement:

Develop the best strategy for successfully executing the Adams' wedding.

Subsidiary Issue: Trade-offs

- Cost vs. Probability of Success
- Room for Unforeseen Issues



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Industry Analysis

Comparisons by Price & Size

Budget:	\$1,200	\$10,000	\$35,000	\$11,800	\$10,000,000	\$4,000
Guests:	50	250	100	50	450	250
Standard:	Mary's Sis	Survey	Survey	Small, Ave	State of Art	Survey
Reception:	\$682	\$5,683	\$19,892	\$6,706	\$5,683,330	\$2,273
Attire:	\$172	\$1,433	\$5,017	\$1,691	\$1,433,330	\$573
Ceremony:	\$24	\$200	\$700	\$236	\$200,000	\$80
Décor:	\$100	\$833	\$2,917	\$983	\$833,340	\$333
Music:	\$84	\$700	\$2,450	\$826	\$700,000	\$280
Photos:	\$72	\$600	\$2,100	\$708	\$600,000	\$240
Stationary:	\$30	\$250	\$875	\$295	\$250,000	\$100
Transport:	\$6	\$50	\$175	\$59	\$50,000	\$20
Gifts:	\$30	\$250	\$875	\$295	\$250,000	\$100
Per Guest:	\$24	\$40	\$350	\$236	\$22,222	\$16

Industry Analysis

30 Day Wedding Planning Guide

	30 Day Planning Guide	Wedding Case: Pre-Crash
Day 1		Reserve Church & Hall
Day 3	Select and Secure Location, Mail Invites	Choose Dress Pattern & Material
Day 4		Finalize Guest List, Order Invites & Dress
Day 8	Select Officiant & Get Paperwork Filed	Select Invitation Style, Order Invites
Day 10	Choose Wedding Party & Dress Style	
Day 11	Purchase Bridal Gown (Off the rack)	Sew Dresses (15 days too late)
Day 13	Arrange Reception Dinner, Order Cake	Arrange Reception Dinner
Day 16		Address Invites
Day 18		Decorate Church, Choose Cake & Décor
Day 20	Purchase Flowers	Mail Invites (16 days too late)
Day 23	Purchase Favors & Décor	Rehearsal Dinner
Day 29	Rehearsal Dinner	

Industry Analysis

Industry Standards

	The Knot Suggested Times	Wedding Case Time Schedule
Church & Hall	9-11 mos. in adv.	17 days notice [10C], 3 days to decorate
Catoring	9-11 mos. in adv.	11 days notice
Catering	1-2 weeks for final headcount	2 days to choose cake
	Buy 6-8 mos. in adv.	3 days for pattern, 8 days for mat'l [5C]
Dresses	3 Fittings at 6 wks, 4 wks, & 2 wks	11 days to sew [6C], 2 days for fitting
		2 days to clean & press [1C]
	Final guest list 9-11 mos. in adv.	4 days to get guest list together
	Order invitations 6-8 mos. in adv.	3 days to choose invitations
Guest List & Invitations	Adress invites 4-5 mos. in adv.	Order 12 days in advance [5C]
mercacions	Send invites 3 mos. in adv.	4 days to address [2C]
		1 day to mail, Send 10 days in adv.

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Analytical Method: Gantt Charts

Original Timeline | No Addl Investment | \$0.00

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	R	W
Reserve	Hall 8	& Ch	urch	1													Déc	or		Х	Х
								Jan	e Arr	ives										Х	Х
Call Cate	rer		Giv	e No	otice	e to	Cate	rer												Х	х
Pattern				Receive Material Sew Dresses																	
Guest Lis	st			Pick Order Invites Add								ress									
Shop																				Х	Х

Failed Paths:

- Dress & Invitations
- Possibly Church/Hall



Analytical Method: Gantt Charts

Altered Timeline | Maximum Investment | \$1540.00

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	R	W
Reserve I	Hall 8	<u> C</u> h	urch							Déc	or									Х	Х
Jane	Arri	ves																		Х	Х
Call Cate	rer		Giv	e N	otice	e to	Cate	rer												Х	Х
Pattern					G	et N	late	rial	Sew	/ Dres	sses				Fit/	Press				Х	Х
Guest Lis	t			Pic	k		Or	der I	nvite	!S		Labe	el	Mai	I						
Shop																				Х	Х

Failed Paths:

Invitations



Analytical Method: Gantt Charts

Altered Timeline | Minimum Investment | \$910.00

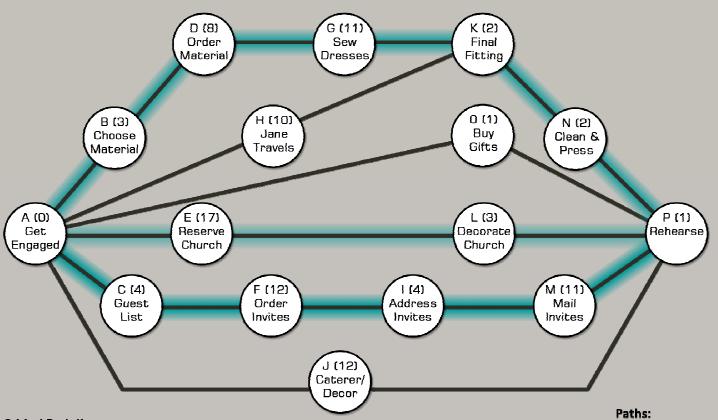
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	R	W
Reserve	Hall	& Ch	urch	า													Déc	or		Х	Х
								Jan	e Arr	ives										Х	Х
Call Cate	erer		Giv	ve No	otice	e to	Cate	rer											_	Х	Х
Pattern					G	et N	later	rial	Sew	Dres	ses				Fit/	Press				X	Х
Guest Li	st			Pic	k		Ord	der I	nvite	S		Lal	bel	Mai	I						
Shop								Х	Х												

Failed Paths:

Invitations [less overall slack]



Analytical Method: Crash Analysis



Critical Path Key:

Days Until Rehearsal: 21

Critical Paths to Reduce: ACFIMP [Invitations] | Longest Path

ABDGKNP [Dresses] | 2nd Critical Path to Meet Deadline

Subsidiary Path to Reduce: AELP [Reception/Church]

1. ABDGKNP: 26 2. AHKNP: 14

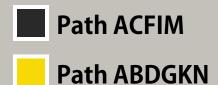
3. AELP: 21

4. ACFIMP: 31

5. AJP: 12

Analytical Method: Crash Analysis

Task	Activity	Pred.	NT	СТ	CC	CC/ Day	NT-CT
Α	Get Engaged		0				0
В	Choose Mat'l		3				3
С	Guest List		4				4
D	Order Mat'l	В	8	5	\$25	\$8.33	3
Е	Reservations		18	10	\$100	\$12.50	8
F	Order Invites	С	12	5	\$35	\$5.00	7
G	Sew Dresses	D	11	6	\$120	\$24.00	5
Н	Jane Travels		10	2	\$500	N/a	8
- 1	Address Invites	F	4	2	\$25	\$12.50	2
J	Caterer & Décor		12				12
K	Final Fitting	H, G	2				2
L	Decorate	Е	3				3
M	Mail Invites	1	11	9	\$200	\$100.00	2
N	Clean & Press	K	2	1	\$30	\$30.00	1



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Proposed Alternatives

3 Solution Strategies

- Minimum Investment
- Balanced Cost Savings & Risk
- Maximum Probability of Success



Analytical models built for each option

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Analysis & Findings

Act:	Status:	а	m	b	ET	Var	CC
Α		0	0	0	0.000	0.000	
В		2	3	4	3.000	0.111	
С		2	4	5	3.833	0.250	
D	Crashed	4	5	8	5.333	0.444	\$25.00
Е		10	17	19	16.167	2.250	
F	Crashed	4	5	7	5.167	0.250	\$35.00
G		10	11	13	11.167	0.250	
Н		2	10	13	9.167	3.361	
- 1	Crashed	1	2	4	2.167	0.250	\$50.00
J		10	12	15	12.167	0.694	
K		1	2	4	2.167	0.250	
L		2	3	4	3.000	0.111	
M	Crashed	8	9	11	9.167	0.250	\$200.00
N		1	1	2	1.167	0.028	
					T	otal CC	\$310.00

Option 1: Minimum Investment



Critical Path:	Probability
ABDGKNP [Dress]	1.1%
ACFIMP [Invites]	74.9%
AELP [Church]	78.2%

Analysis & Findings

Option 2: Balanced Cost Savings

Act:	Status:	а	m	b	ET	Var	CC
Α		0	0	0	0.000	0.000	
В		2	3	4	3.000	0.111	
С		2	4	5	3.833	0.250	
D	Crashed	4	5	8	5.333	0.444	\$25.00
Е		10	17	19	16.167	2.250	
F	Crashed	4	5	7	5.167	0.250	\$35.00
G	Crashed	5	6	7	6.000	0.111	\$600.00
Н		2	10	13	9.167	3.361	
I	Crashed	1	2	4	2.167	0.250	\$50.00
J		10	12	15	12.167	0.694	
K		1	2	4	2.167	0.250	
L		2	3	4	3.000	0.111	
M	Crashed	8	9	11	9.167	0.250	\$200.00
N		1	2	3	2.000	0.111	
					To	otal CC	\$910.00



Critical Path:	Probability
ABDGKNP [Dress]	99.3%
ACFIMP [Invites]	74.9%
AELP [Church]	78.2%

Analysis & Findings

Status: Var CC Act: b ET a m 0.000 0.000 Α 0 0 0 0.111 2 3 3.000 В 4 C 2 3.833 0.250 4 5 D Crashed 4 5.333 0.444 \$25.00 5 8 7 Е Crashed 10 17 10.667 2.778 \$100.00 F **Crashed** 5 7 5.167 0.250 \$35.00 4 G Crashed 6 7 6.000 0.111 \$600.00 5 2 н Crashed 2 10 3.333 1.778 \$500.00 Crashed 2 4 0.250 1 2.167 \$50.00 10 12 15 12.167 0.694 K 2 2.167 0.250 4 3 3.000 0.111 2 4 Crashed 9.167 8 9 11 0.250 \$200.00 M N Crashed 1 1 2 1.167 0.028 \$30.00 \$1,540.00 **Total CC**

Option 3: Max Safety Slack



Critical Path:	Probability
ABDGKNP [Dress]	99.9%
ACFIMP [Invites]	74.9%
AELP [Church]	99.4%

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6. Suggestion & Contingency

Suggestion for Mary

Recommendation Option 2: Balance Cost & Success

Crash Invitation Path [ACFIMP] | 99.3%
 Crash Dress Path [ABDGKNP] | 74.9%

Additional Cost: \$910.00

Order Material: \$25.00

Order Invites: \$35.00

• Mail Invites: \$200.00

• Sew Dresses: \$600.00

Address Invites: \$50.00



Suggestion & Contingency

Project Significance

Project Management Skills
Cost/Benefit Analysis
Decision-Making Skills
Supply Chain Management
Critical Thinking



Suggestion & Contingency

Thank you for your Attention!



Any Questions?