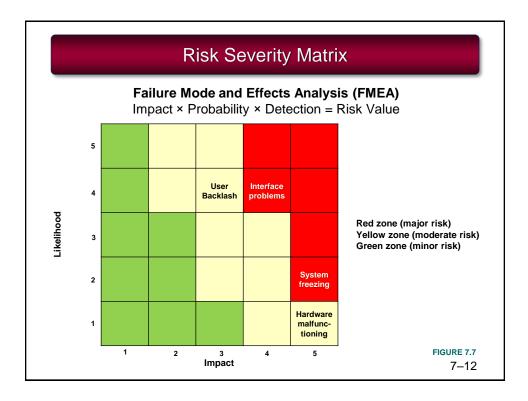


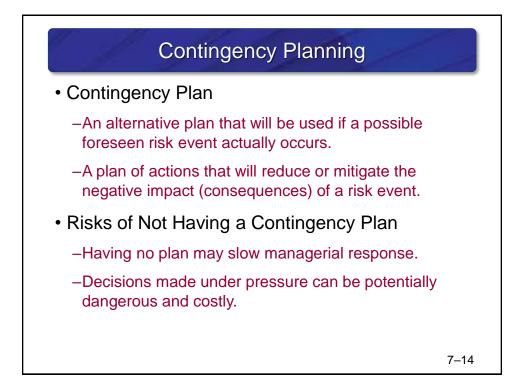
Defined Conditions for Impact Scales of a Risk on Major Project Objectives (Examples for negative impacts only)

Project	1	2	3	4	5
Objective	Very Low	Low	Moderate	High	Very High
Cost	Insignificant cost	< 10% cost	10–20% cost	20–40% cost	> 40% cost
	increase	increase	increase	increase	increase
Time	Insignificant time	< 5% time	5–10% time	10–20% time	> 20% time
	increase	increase	increase	increase	increase
Scope	Scope decrease barely noticeable	Minor areas of scope affected	Major areas of scope affected	Scope reduction unacceptable to sponsor	Project end item is effectively useless
Quality	Quality degradation barely noticeable	Only very demanding applications are affected	Quality reduction requires sponsor approval	Quality reduction unacceptable to sponsor	Project end item is effectively useless

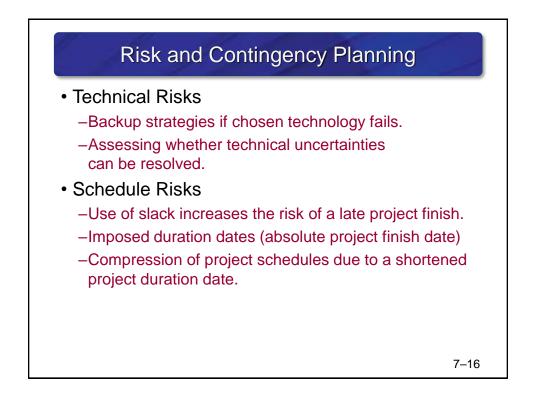
Risk Event	Likelihood	Impact	Detection Difficulty	When
nterface problems	4	4	4	Conversion
System freezing	2	5	5	Start-up
Jser backlash	4	3	3	Postinstallation
Hardware nalfunctioning	1	5	5	Installation
	1	5	5	Installation

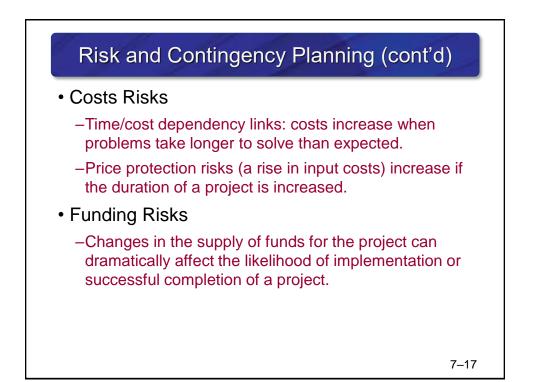


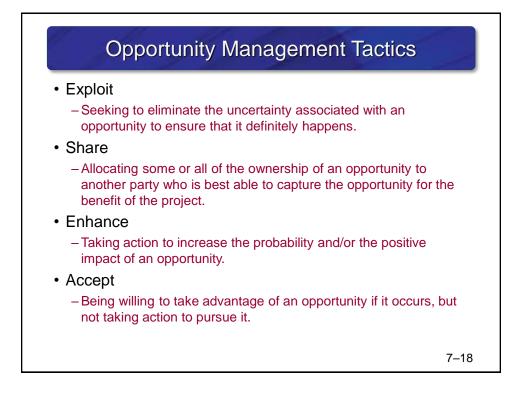


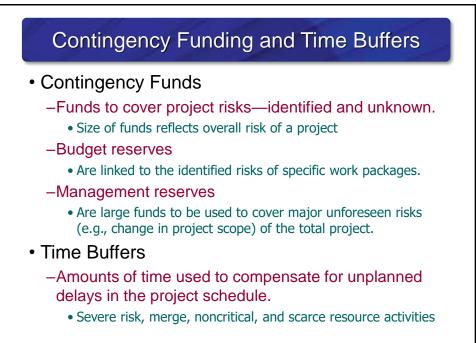


Risk Event	Response	Contingency Plan	Trigger	Who Is Responsible
Interface problems	Mitigate: Test prototype	Work around until help comes	Not solved within 24 hours	Nils
System freezing	Mitigate: Test prototype	Reinstall OS	Still frozen after one hour	Emmylou
User backlash	Mitigate: Prototype demonstration	Increase staff support	Call from top management	Eddie
Equipment malfunctions	Mitigate: Select reliable vendor Transfer: Warranty	Order replacement	Equipment fails	Jim



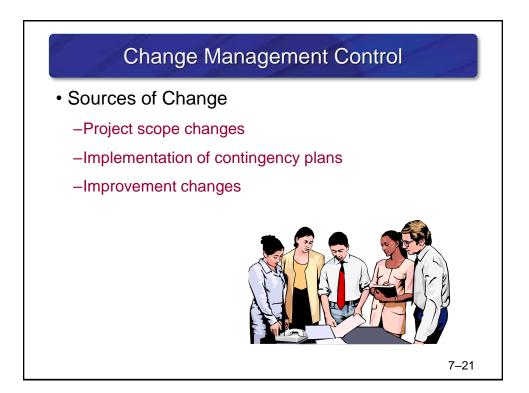


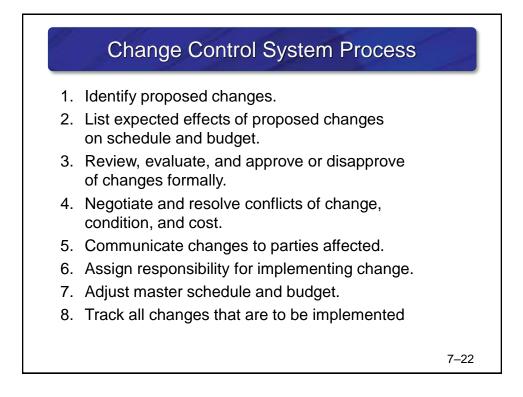


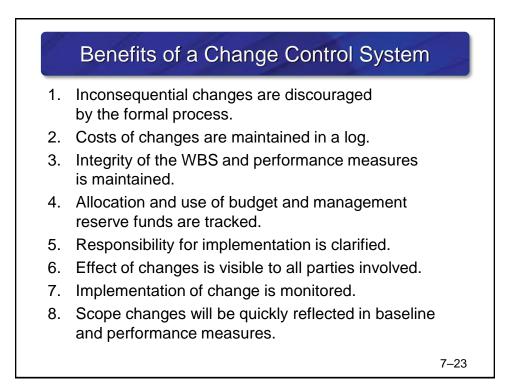


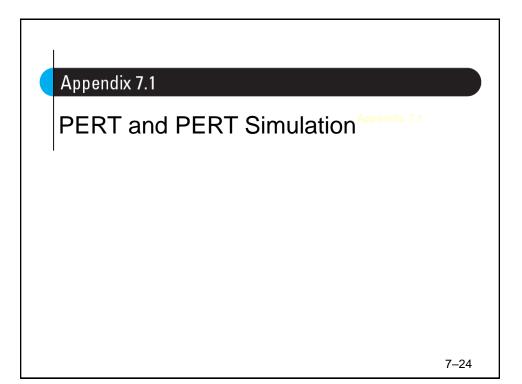
7–19

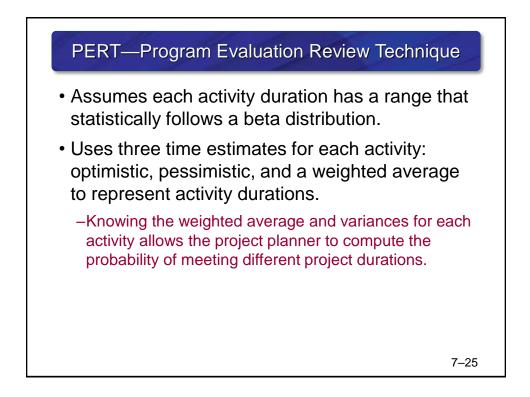


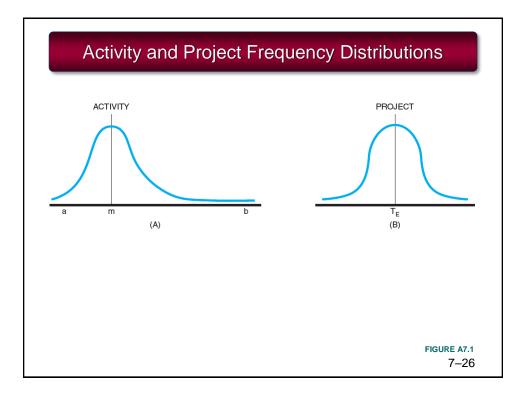


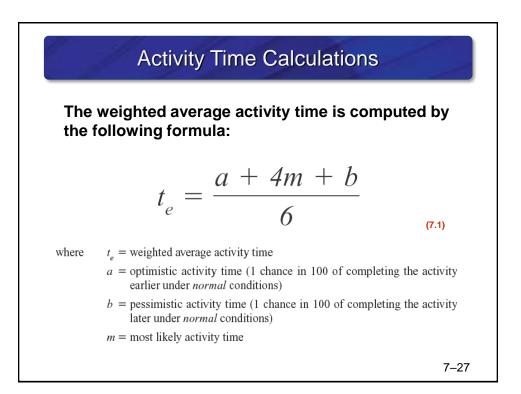


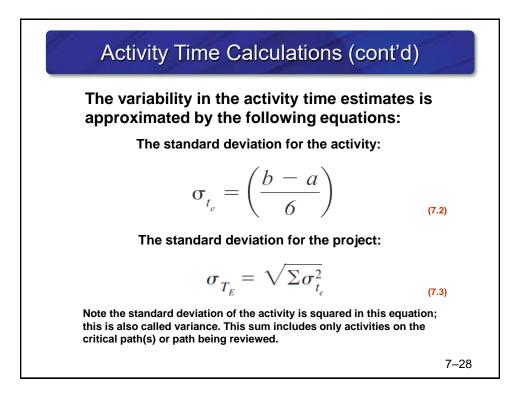












Activity	а	т	b	t _e	[(<i>b</i> – <i>a</i>)/6] ²
1—2	17	29	47	30	25
2—3	6	12	24	13	9
2—4	16	19	28	20	4
3—5	13	16	19	16	1
4—5	2	5	14	6	4
5—6	2	5	8	5	1

Probability of Completing the Project

The equation below is used to compute the "Z" value found in statistical tables (Z = number of standard deviations from the mean), which, in turn, tells the probability of completing the project in the time specified.

$$Z = \frac{T_s - T_E}{\sqrt{\Sigma \sigma_{t_e}^2}}$$

where

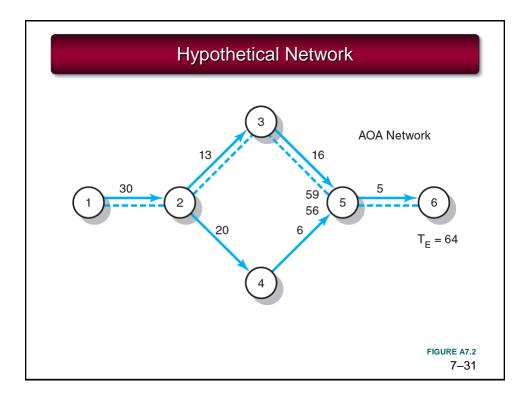
 T_E = critical path duration

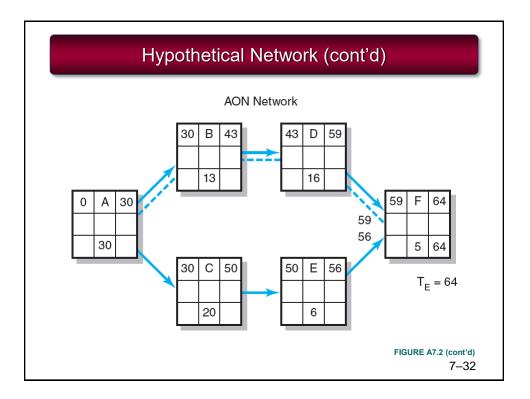
 T_s = scheduled project duration

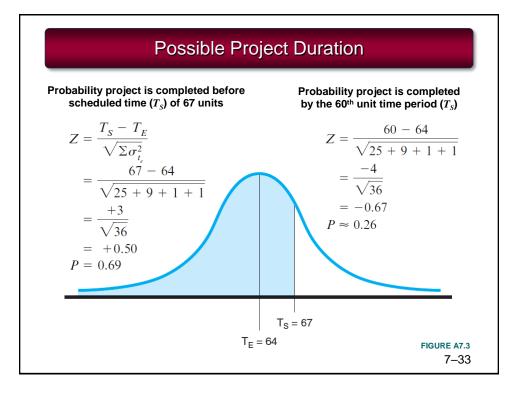
Z = probability (of meeting scheduled duration)

7–30

(7.4)







	Z Values and		
Z Value	Probability	Z Value	Probability
-3.0	.001	+0.0	.500
-2.8	.003	+0.2	.579
-2.6	.005	+0.4	.655
-2.4	.008	+0.6	.726
-2.2	.014	+0.8	.788
-2.0	.023	+1.0	.841
-1.8	.036	+1.2	.885
-1.6	.055	+1.4	.919
-1.4	.081	+1.6	.945
-1.2	.115	+1.8	.964
-1.0	.159	+2.0	.977
-0.8	.212	+2.2	.986
-0.6	.274	+2.4	.992
-0.4	.345	+2.6	.995
-0.2	.421	+2.8	.997
			TABLE A
			7–3