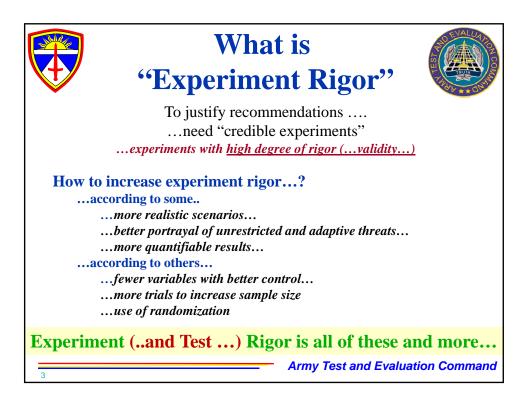
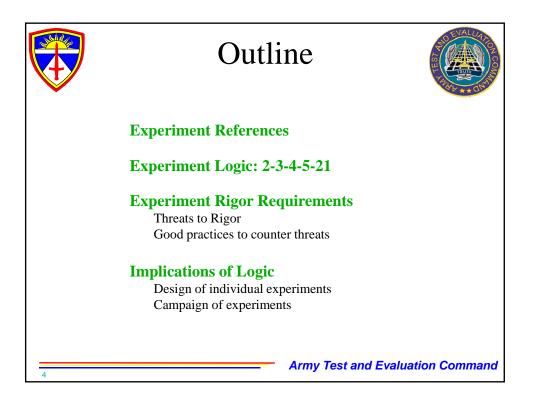
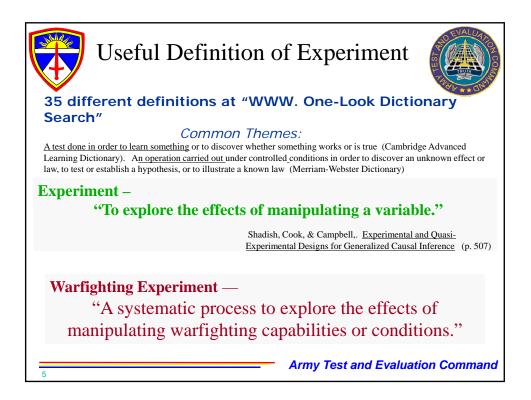
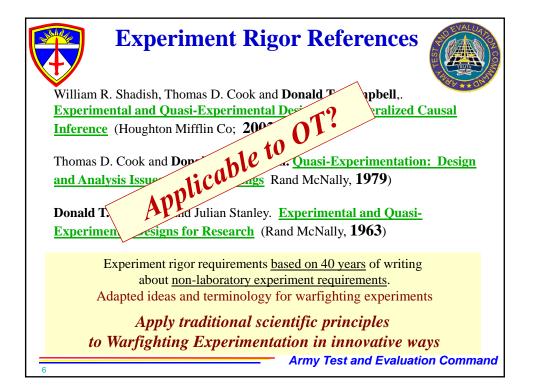


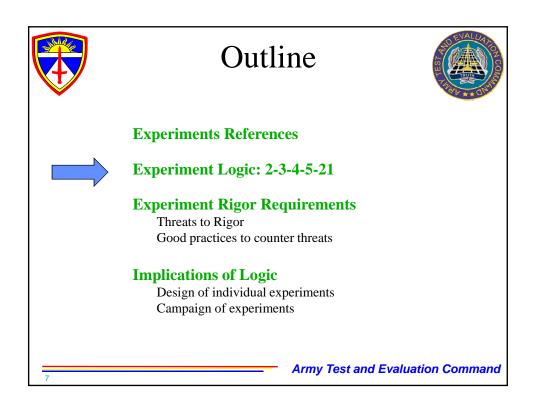
<b>Validity</b> fair	Freudian Analysis	Rebel	uld have them control you without a <b>Causality</b>	
Discovery channel	"Nightmare on <b>Bias</b> street" "It was the best of <b>trials</b> . It was the worst of trials."			
Data collection	"Hypothesis now"	Realism	Significance other	
Who W	Vants to Be an	Experim	enter?	
Bite-size sample size	"I think, therefore	e I <b>experiment</b> "		
I <b>experimented</b> , but di	d not inhale.	Test	ting, 1, 2, 3	
In search of Bobby Findin	gs	7 do da	Science fiction	
	Free play Welcor	ne back Concepts		
Independent, Dependent	, and Republican Variables	Risk-fr	ee Alpha and Beta bonds	
Precision	E=MC <sup>2</sup> (Experiment e	equals Methodolog	y Controlled by Confusion)	

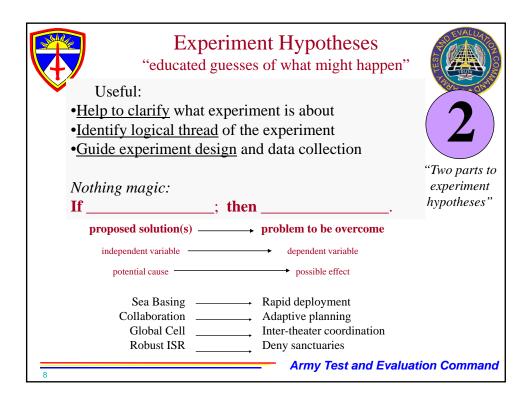


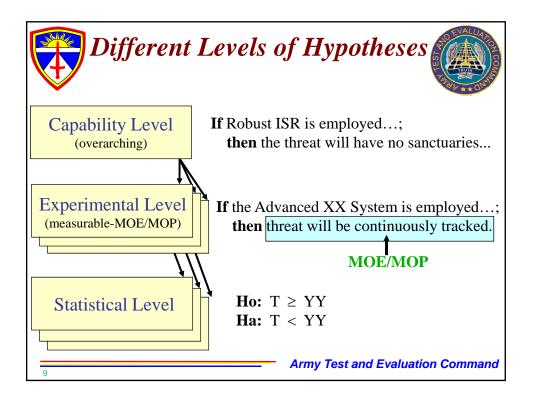


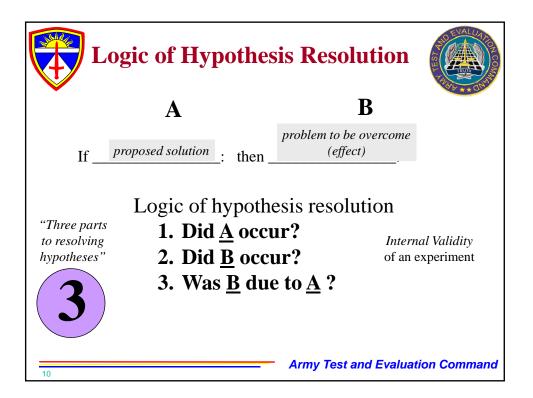


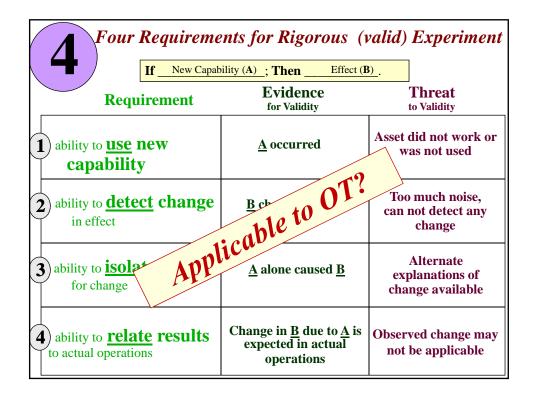


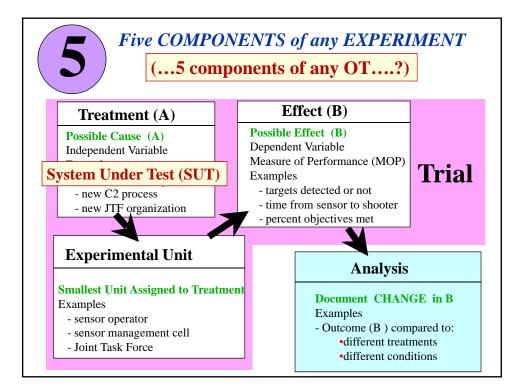












5 Experiment Components	4 Experiment Requirements					
	1. Ability to Use the Capability	2. Ability to Detect Change		o Isolate the or Change Multiple Groups	4. Ability to Relate the Results to Operations	
1. Treatment	(1) Capability functionality does not work.	(5) Capability systems vary in performance.	(11) Functionality changes across trials.		(18) Functionality does not represent future capability.	
2. Players	(2) Players are not adequately prepared.	(6) Experiment players vary in proficiency.	(12) Player proficiency changes trial	T? ffer	(19) Players do not represent operational unit.	
3. Effect	(3) Measures are insensitive to capability impact.	(6) Experiment players vary in proficiency. (7) Data collection accuracy is inconsi- inconsi-	ble to changes oss trials.	(16) Data collection accuracy differs for each group.	(20) Measures do not reflect important effects.	
4. Trial	(4) Capabilituri no oppor perform.	Appur	(14) Trial conditions change across trials.	(17) Groups operate under different trial conditions.	(21) Scenario is not realistic.	
5. Analysis	21	(9) Low statistical power (10) Statistical assumptions are violated.	•Experiment Hypothesis: if <u>A</u> , then <u>B</u> . •Purpose of an experiment: verify that <u>A</u> causes <u>B</u> . •Valid experiment allow conclusion " <u>A</u> causes <u>B</u> " to be based on evidence and sound reasoning -By reducing or eliminating 21 threats to validity.			

