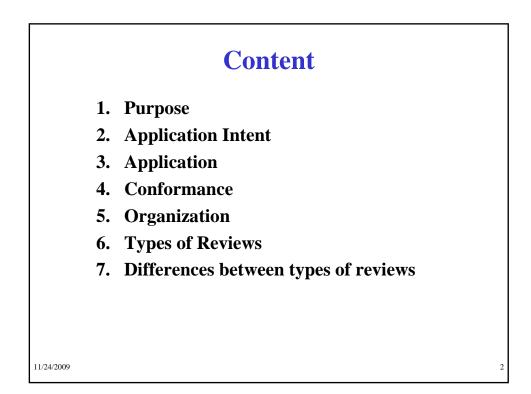
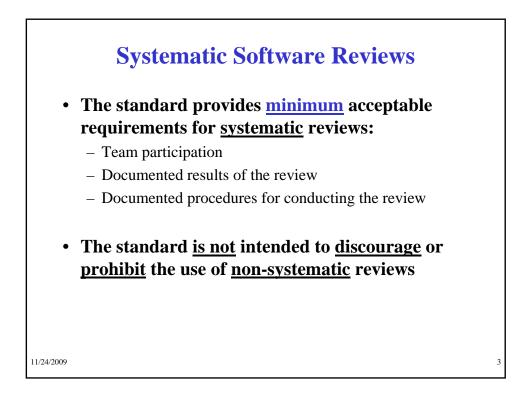


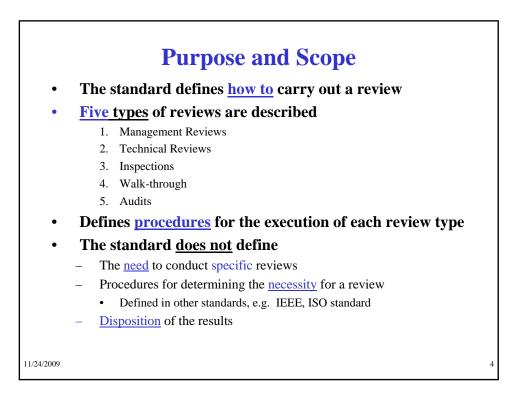
IEEE Standard for Software Reviews

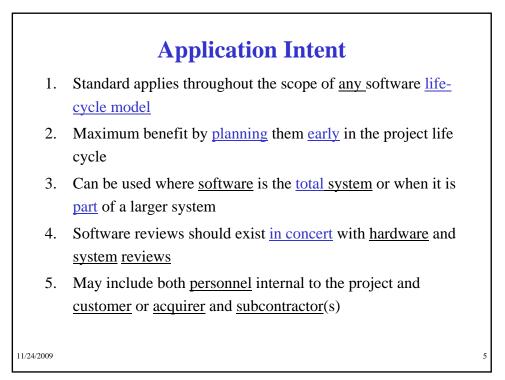
IEEE Std 1028-2008

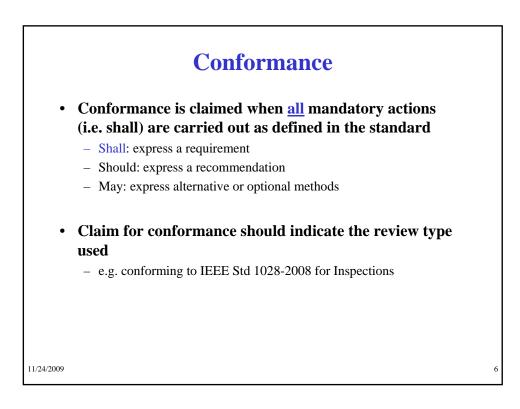
15 August 2008 Revision of IEEE Std 1028-1997













1. Introduction

- Describes the objectives and overview of type of reviews
- 2. Responsibilities
- 3. Input needed to perform a review

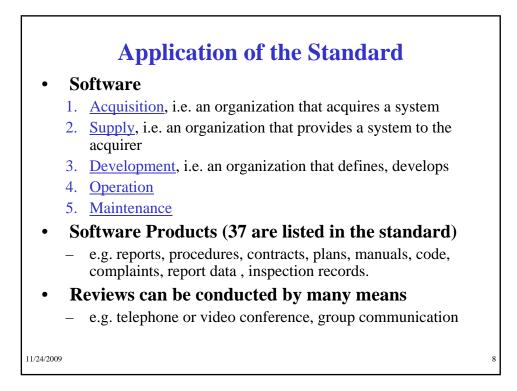
4. Entry Criteria

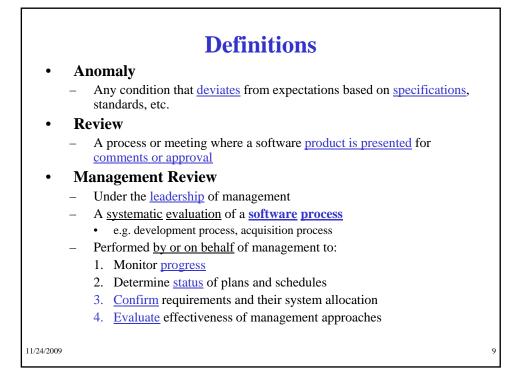
- Criteria to be met before review can begin
 - e.g. authorization, initiating event

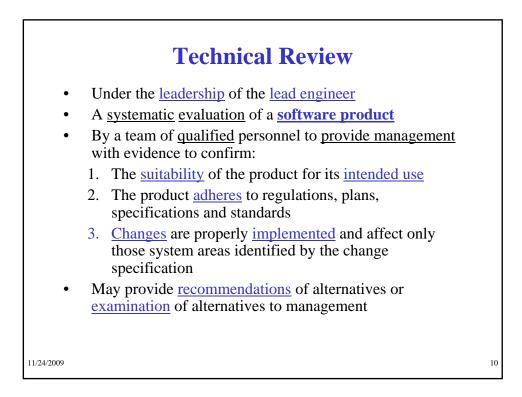
5. Procedures:

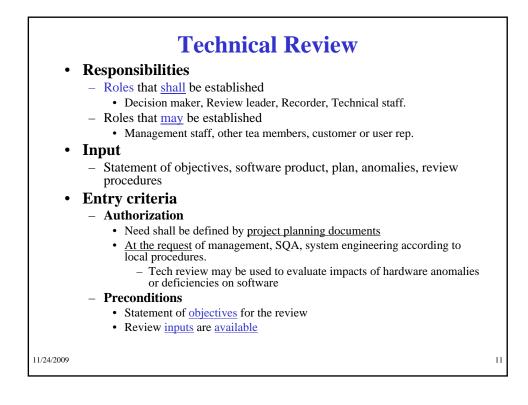
- e.g. planning, overview, preparation, examination, evaluation, recording, rework, follow-up
- 6. Exit criteria
- 7. Output

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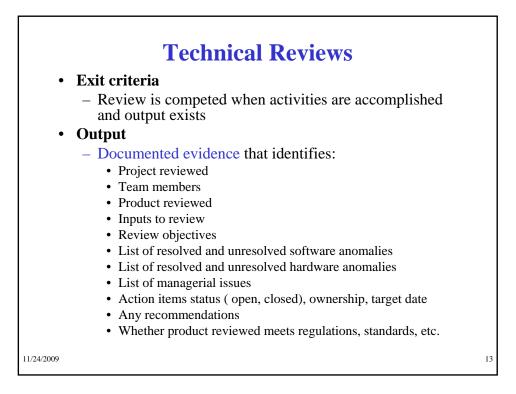




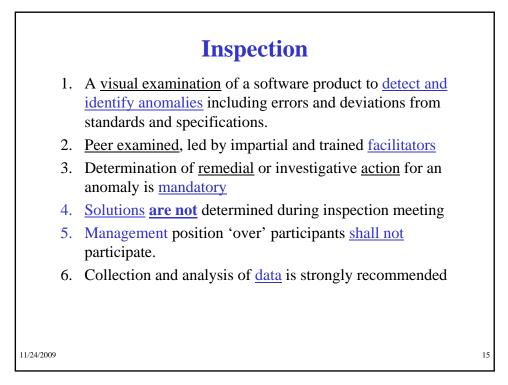


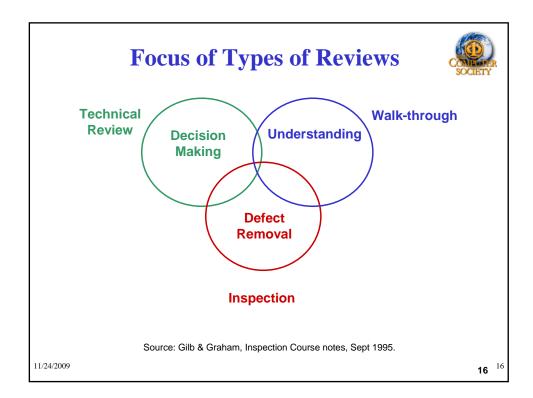


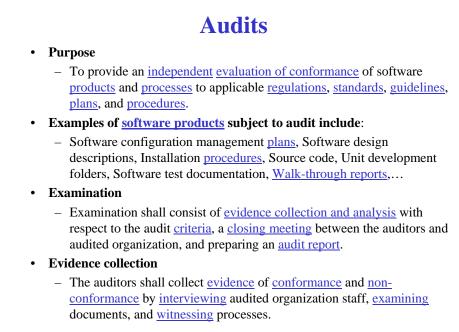
	Technical Reviews	
• Pı	rocedure	
1.	Management preparation (plan, resources, funding, training, etc.)	
2.	• • • • •	
3.		
4.		
5.		
	- Examine the product, anomalies sent to leader, to author for disposition	
	 Leader gather preparation time and reschedule if appropriate. 	
6.	Examination (meeting)	
	1. Decide on agenda	
	2. Evaluate product	
	3. Determine if:	
	 Product is complete, conforms, properly implemented, suitable for use 	
	 Changes to the software product are properly implemented and affect only the specified areas; 	
	 The software product is <u>suitable for its intended use;</u> 	
	• The software product is ready for the next activity;	
	 <u>Hardware anomalies</u> or specification discrepancies exist 	
	4. Identify anomalies	
	5. Generate list of action items	
_	6. Document the meeting (leader may recommend additional review)	
7.	Rework/Follow-up	
	 Leader shall verify that <u>action items</u> are <u>closed</u> 	
1/24/2009		



		Walk-through	
	_	A static analysis technique of a software product	
	_	Where participants	
		1. ask questions and make comments	
		2. <u>Find anomalies</u>	
		3. <u>Improve</u> the product	
		4. Consider <u>alternative</u> implementations	
		5. Evaluate <u>conformance</u> to standards or specifications	
	•	Defined Roles	
		• Leader, recorder, author, team member	
	_	Management position 'over' participants <u>shall not</u> participate	
	_	May be held to educate an audience about a software	
11/24/2009		product	14

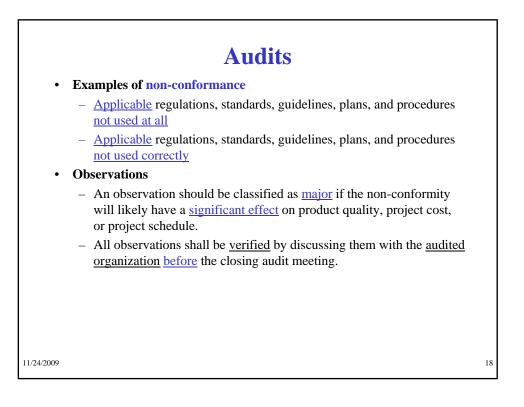


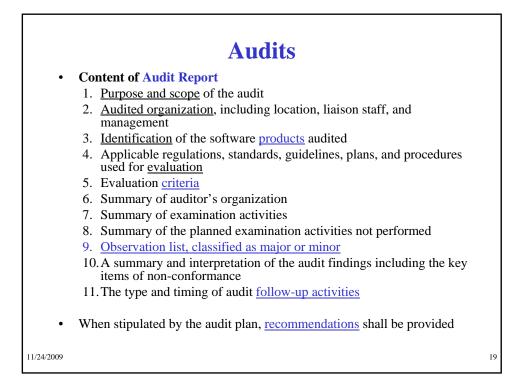




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	Management Review	Technical Review	Inspection	Walk-through	Audit
Objective	Ensure Progress	Evaluate Conformances*	Find Anomalies	Find Anomalies Examine/Improve	Evaluate Compliance
Number of Members	Unlir	nited	3-6	2-7	1-5
Material Size	Moderate to High		Relativ	ely Low	Moderate to High
Leadership	Manager	Lead Eng.	Trained Facilitator	Facilitator or Author	Lead Auditor
Management Present ?	Yes	Optional	No	No	Yes
Volume of material	Moderate to High	Moderate to High	Low	Low	Moderate to High
Checklist ?	No	No	Yes	No	Yes
Output list	Management report	Technical report	Defect list	Report	Defect (Audit report)

Characteristic	Management review	Technical review	Inspections	Walk-through	Audit
Presenter	Project representative	Development Team representative	A reader	Author	Auditors collect and examine informatio provided by audited organization
Data collection	As required by applicable policies, standards, or plans	Not a formal project requirement. May be done locally.	Strongly recommended	Recommended	Not a formal projec requirement. May be done locally
Output	Management review Documentation	Technical review documentation	Anomaly list, anomaly summary, inspection documentation	Anomaly list, action items , decision , follow up proposal	Formal audit report observation, feeding deficiencies
Formal facilitator training	No	No	Yes	No	Yes (formal auditing training)
Defined participants roles	Yes	Yes	Yes	Yes	Yes
Use of defect checklists	No	No	Yes	No	Yes
Management participates	Yes	Optional	No	No	Yes
Customer or user representative participates	Optional	Optional	Optional	Optional	Optional