



# **CS 577a Software Engineering I**

## **Peer Review Workshop**

**A Winsor Brown**

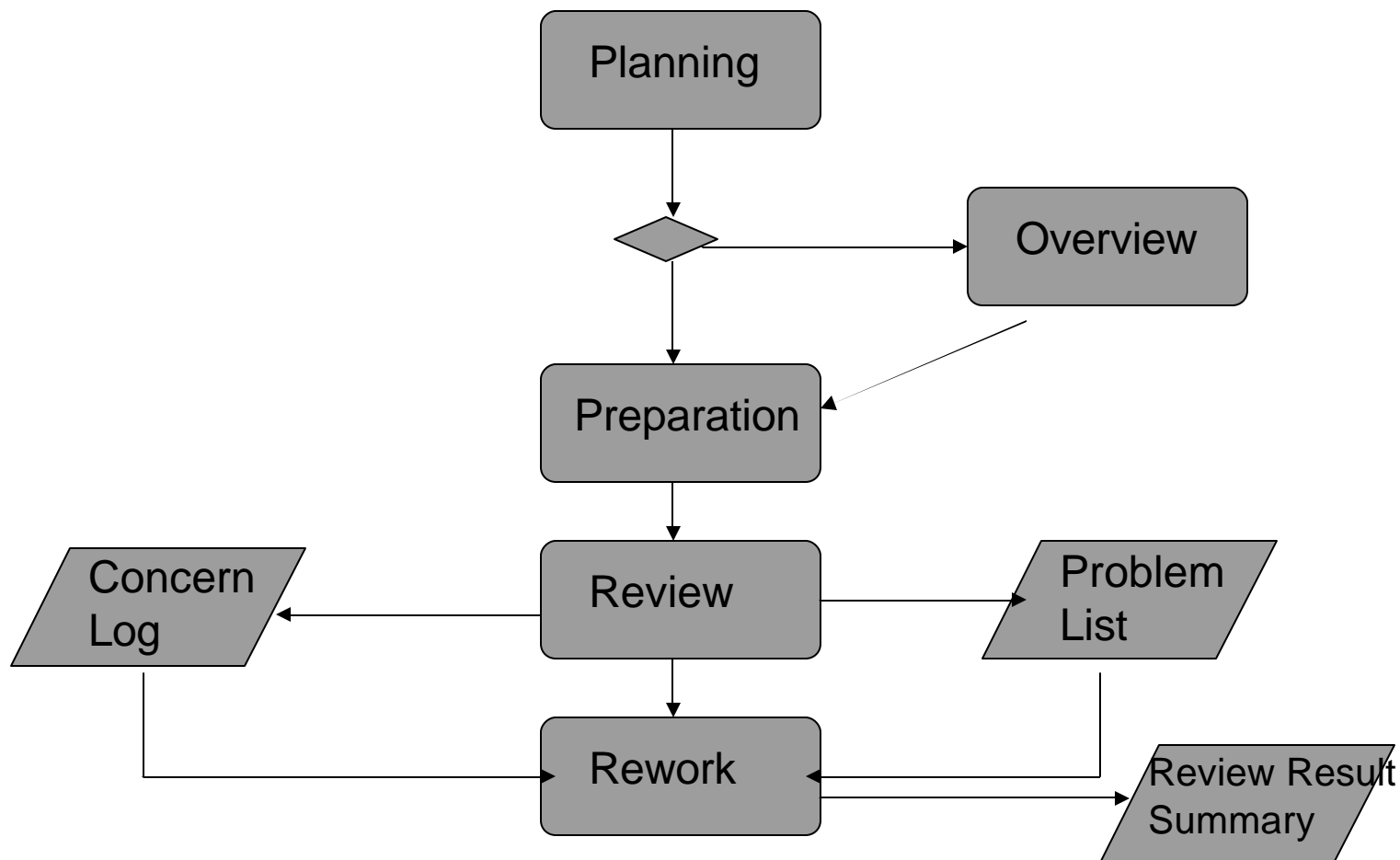


# **CS577a Peer Review Process**

## **[AKA Agile Internal/Informal Review]**

- **Process Flowchart**
- **Process Steps**

# Agile Internal/Informal Review



# Agile Internal/Informal Review

Activities	Task	Responsible
Planning	<ul style="list-style-type: none"> <li>•<b>Select the reviewer</b></li>   <li>•<b>Prepare the review form</b>            (“<i>AgileInternalReview_Form.xls</i>”).</li>   <li>•<b>Based on the complexity of the artifact or domain or development experience of the reviewers determine whether an overview meeting is required</b></li>   <li>•<b>Either distributes a physical or electronic copy of the artifact to each reviewer.</b></li>   <li>•<b>Set up time and place for overview or review meeting</b></li> </ul>	<ul style="list-style-type: none"> <li><b>Review Leader</b></li>   <li><b>Review Leader</b></li>   <li><b>Review Leader</b></li>   <li><b>Review Leader</b></li> </ul>

# Agile Internal/Informal Review

Activities	Task	Responsible
Overview (if conducted)	<ul style="list-style-type: none"> <li>• <b>Describe the important features of the work product, state review objectives and describe assumptions, history and context of work to the reviewer</b></li> </ul>	<b>Author</b>
Preparation (Individually)	<ul style="list-style-type: none"> <li>• <b>Examine the work product (reading technique may apply)</b></li> <li>• <b>Either hand-write comments in work product or enter comments into the work product's file.</b></li> </ul>	<b>Reviewer</b>  <b>Reviewer</b>

# Agile Internal/Informal Review

Activities	Task	Responsible
Review Meeting	<ul style="list-style-type: none"> <li>• <b>Go through the artifact and record all the concerns in “<i>Area of Concern Log</i>”</b></li> <li>• <b>Classify the severity of concern (Major or Minor) in “<i>Area of Concern Log</i>”</b></li> <li>• <b>Classify the class of concern (Missing, Wrong or Extra) in “<i>Area of Concern Log</i>”</b></li> <li>• <b>When team can agree, identify a concern as a problem and record problem in “<i>Problem List</i>”</b></li> <li>• <b>Determine either the problem raised on “<i>problem list</i>” is issue or defect; also recommended, go through concerns raised on “<i>Area of Concern Log</i>”</b></li> <li>• <b>Classify the severity of defect (Major or Minor defects) in “<i>Problem List</i>”</b></li> <li>• <b>Classify the class of defect (Missing, Wrong or Extra) in “<i>Problem List</i>”</b></li> <li>• <b>Classify the type of defect (Avoidable or Unavoidable) in “<i>Problem List</i>”</b></li> </ul>	<p><b>Review Leader</b></p> <p><b>Reviewer</b></p> <p><b>Reviewer</b></p> <p><b>Review Leader</b></p> <p><b>Author</b></p> <p><b>Author</b></p> <p><b>Author</b></p> <p><b>Author</b></p>

# Agile Internal/Informal Review

Activities	Task	Responsible
Rework	<ul style="list-style-type: none"> <li>• <b>Perform any necessary rework of the work product (including any other project artifacts affected by defects identified).</b></li> <li>• <b>Record activities of defects injection in “<i>Problem List</i>”</b></li> <li>• <b>Record location and fixed date in “<i>Problem List</i>”</b></li> <li>• <b>Review work product to ensure all defects identified are corrected and there are no new defects introduced</b></li> <li>• <b>Complete “<i>Review Results Summary</i>” form</b></li> </ul>	<p><b>Author</b></p> <p><b>Author</b></p> <p><b>Author</b></p> <p><b>Author</b></p> <p><b>Review Leader</b></p>

# Defect Categories

## Criticality

- **High**

- A Condition that causes an operational failure, malfunction, or prevents attainment of an expected or specified result
- Information that would lead to an incorrect response or misinterpretation of the information by the user
- An instance of non-conformance that would lead to a discrepancy report if implemented as is

- **Medium**

- **Low**

- A violation of standards, guidelines, or rules, but would not lead to a discrepancy report
- Information that is undesirable but would not cause a malfunction or unexpected results (bad workmanship)
- Information that, if left uncorrected, may decrease maintainability

# Defect Categories (continued)

## Class

- **Missing**

- Information that is specified in the requirements or standard, but is not present in the document

- **Wrong**

- Information that is specified in the requirements or standards and is present in the document, but the information is incorrect

- **Extra**

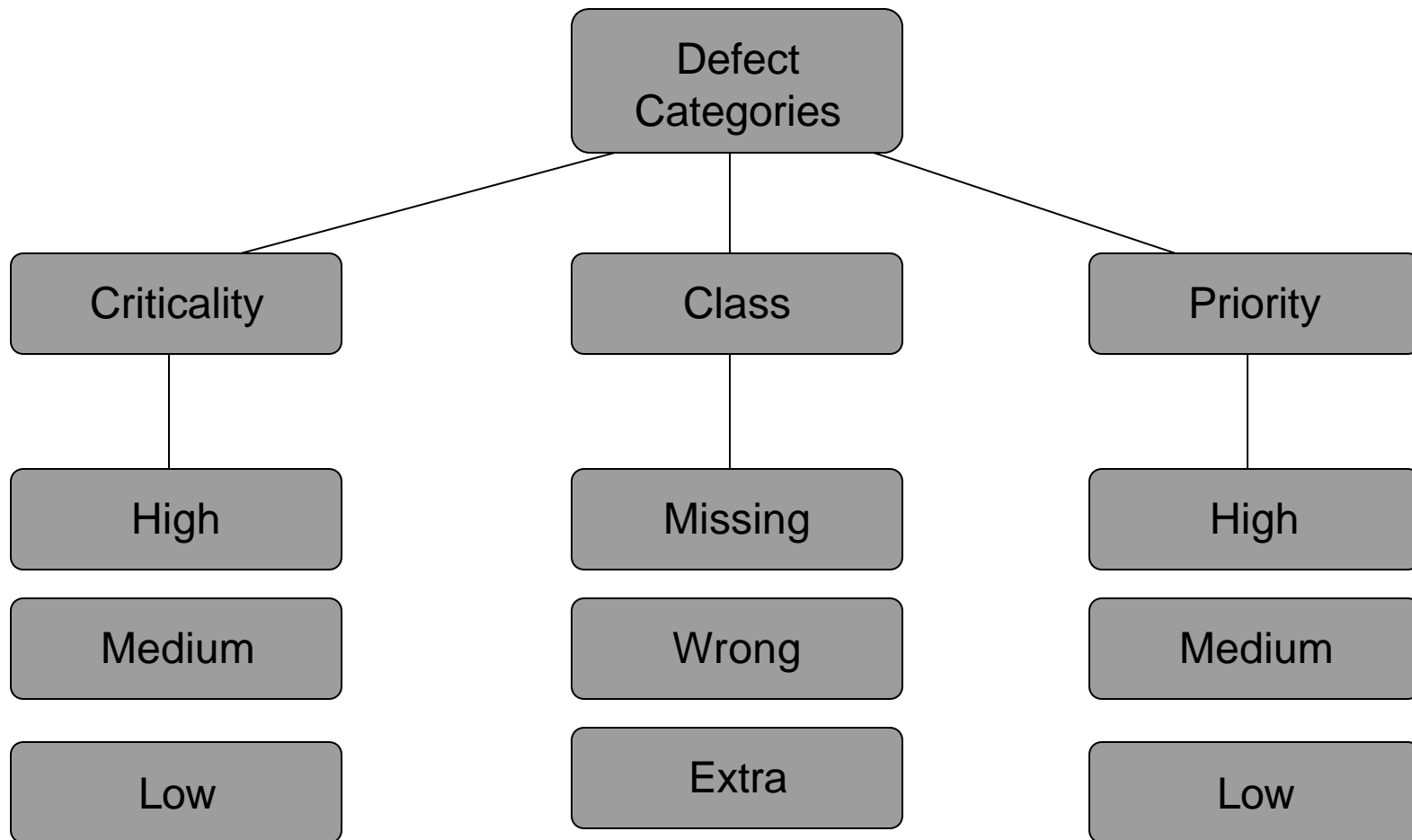
- Information that is not specified in the requirements or standards but is present in the document

# Defect Categories (continued)

## Priority

- **High**
  - Defined based in “Value Based Reviews” Presentation
- **Medium**
  - Defined based in “Value Based Reviews” Presentation
- **Low**
  - Defined based in “Value Based Reviews” Presentation

# Defect Categories (continued)





# Backup Material – Alternate Categories

# Defect Categories

## Severity

- **Major**

- A Condition that causes an operational failure, malfunction, or prevents attainment of an expected or specified result
- Information that would lead to an incorrect response or misinterpretation of the information by the user
- An instance of non-conformance that would lead to a discrepancy report if implemented as is

- **Minor**

- A violation of standards, guidelines, or rules, but would not lead to a discrepancy report
- Information that is undesirable but would not cause a malfunction or unexpected results (bad workmanship)
- Information that, if left uncorrected, may decrease maintainability