

Defect Types

10 Documentation

20 Syntax

30 Build, Package

40 Assignment

50 Interface

60 Checking

70 Data

80 Function

90 System

100 Environment

Table C16 Time Recording Log

Student _____ Date _____
Instructor _____ Program # _____

[illegible]

Table C34 PSP1 Project Plan Summary

Student			Date	
Program			Program #	
Instructor			Language	

Summary	Plan	Actual	To Date	
LOC/Hour				
Program Size (LOC)	Plan	Actual	To Date	
Base(B)				
	(Measured)	(Measured)		
Deleted (D)				
	(Estimated)	(Counted)		
Modified (M)				
	(Estimated)	(Counted)		
Added (A)				
	(N – M)	(T – B + D – R)		
Reused (R)				
	(Estimated)	(Counted)		
Total New and Changed (N)				
	(Estimated)	(A + M)		
Total LOC (T)				
	(N + B – M – D + R)	(Measured)		
Total New Reused				
Time in Phase (min.)	Plan	Actual	To Date	To Date %
Planning				
Design				
Code				
Compile				
Test				
Postmortem				
Total				
Defects Injected		Actual	To Date	To Date %
Planning				
Design				
Code				
Compile				
Test				
Total Development				
Defects Removed		Actual	To Date	To Date %
Planning				
Design				
Code				
Compile				
Test				
Total Development				
After Development				

TSPi Inspection Report - Form INS

Name _____ Date _____
 Team _____ Instructor _____
 Part/Level _____ Cycle _____
 Moderator _____ Owner _____

Engineer Data

Name	Defects ¹		Preparation Data			Est.
	Major	Minor	Size	Time	Rate	Yield
Totals:						

Defect Data

No	Defect Description	Defects		Engineers (finding major defects)					
		Maj	Min					A	B
Totals									
Unique Defects									

Inspection Summary **Product Size:** _____ **Size Measure:** _____
Total defects for A: _____ **Total defects for B:** _____ **C (# common):** _____
Total Defects (AB/C): _____ **Number Found (A+B-C):** _____ **Number Left:** _____
Meeting Time: _____ **Total Inspection Hours:** _____ **Overall Rate:** _____

TSPi Inspection Report Instructions - Form INS

¹ Major defects either change the program source code or would ultimately cause a source code change if not fixed in time; all other defects are considered minor.

Purpose	- Use this form to gather and analyze inspection data.
General	<ul style="list-style-type: none"> - These data must be gathered during the inspection because they generally cannot be obtained later. - Record the preparation data at the beginning of the inspection meeting. - Complete the form at the end of the inspection meeting. - It is helpful to have line and page numbers on the printed product text.
Header	<p>Enter your name, the team name, instructor's name and the date.</p> <ul style="list-style-type: none"> - the product, level, and development cycle - the names of the moderator and product owner
Engineer Data	<p>For each reviewer, enter the reviewer's name and preparation time, as well as</p> <ul style="list-style-type: none"> - the number of major and minor defects that reviewer found - the LOC, lines, or pages the reviewer inspected (reviewers may concentrate on program sections) - the preparation rate in LOC, pseudocode lines, or pages per hour <p>Enter total preparation time, total major and minor defects, and overall rate. The moderator calculates total and engineer yields at the end of the meeting.</p>
Defect Data: No.	<ul style="list-style-type: none"> - Enter a number for each defect found in the inspection. - It is generally most convenient to use the document line and page number
Defect Data: Defect Description	- Describe each defect and check whether it is major (Maj.) or minor (Min.).
Defect Data: Engineers	<ul style="list-style-type: none"> - In the first row below the <i>Engineers</i> heading, enter the initials of each engineer who is participating in the inspection. - For major defects, check the column for each engineer who found that defect during inspection preparation.
Summary	<p>At the end of the inspection, complete the summary data.</p> <p>Product size:</p> <ul style="list-style-type: none"> - For requirements or high-level design inspections, enter the text pages. - For detailed design inspections, enter the LOC or pseudocode lines. - For source code, enter the source-code LOC. <p>For the defect summary values, see the following explanation. Enter meeting time, total inspection hours, and overall inspection rate.</p>
Summary: Estimate Remaining Defects	<ul style="list-style-type: none"> - After all defects are entered, count the major defects each engineer found that no other engineer found (the engineer's unique defects). - Identify the engineer who found the most unique defects. - Check each defect that engineer found in column A. - In column B, check all the defects found by the other engineers. - Count the common defects (C for common) between columns A and B. - The estimated total defects in the product is AB/C. - Round fractional results to the nearest integer. - The number found in the inspection is $A+B-C$. - The number left is: total less the number found: $(AB/C)-(A+B-C)$. - This defect estimate is only reliable when all the numbers A and B are greater than 4 and $A-C$, and $B-C$ are both greater than 1. - Even with these criteria, the total defect error is likely to be 10% or more. - When one or more engineers' yields are 70% or better, the estimates are generally quite accurate. - If $A=B=C$, you have likely found all the defects. - If several engineers found the same largest number of unique defects, repeat these calculations, using each of these engineers as A, and use the largest resulting number as the total defect estimate.