

PSP1 Process Script

version 1.2

Purpose	To guide the development of module-level programs
Entry Criteria	<ul style="list-style-type: none"> - Problem description - Blank PSP1 Project Summary form - Blank Size Estimating worksheet and PSP Design Form. - Historical size and time data (estimated and actual) from binder - Blank Time Recording logs and Defect Tally. - Defect Type and Size Counting standards - Stopwatch or TimeLogger (optional)

Step	Activities	Description
1	Planning	- Follow the attached Planning script.
2	Development	- Follow the attached Development script.
3	Postmortem	Follow the attached Postmortem script.

Exit Criteria	<ul style="list-style-type: none"> - A thoroughly tested program - Completed Project Summary form with estimated and actual data - Completed Size Estimating Worksheet. - Completed Time Recording log and Defect Tally.
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PSP1 Planning Script

Purpose	To guide the PSP planning process
Entry Criteria	<ul style="list-style-type: none"> - Problem description - Blank PSP1 Project Summary form - Blank Size Estimating worksheet - Historical size and time data (estimated and actual) from binder - Blank Time Recording log and Defect Tally.

Step	Activities	Description
1	Form Setup	<ul style="list-style-type: none"> - Complete form headers. - Enter start time for PLAN phase in Time Recording Log.
2	Program Requirements	<ul style="list-style-type: none"> - Produce or obtain a requirements statement for the program. - Ensure that the requirements statement is clear and unambiguous. - Resolve any questions
3	Size Estimate	<ul style="list-style-type: none"> - Produce a program conceptual design. - Use the Informal Estimation Procedure to estimate the size of this program. - Complete the Size Estimating Worksheet.
4	Resource Estimate	<ul style="list-style-type: none"> - Follow the directions for completing the planning portion of the Project Summary form. - Enter the stop time for the PLAN phase in the Time Log.

Exit Criteria	<ul style="list-style-type: none"> - Documented requirements statement - Program conceptual design - Completed Size Estimating Worksheet - Project Summary form contains estimated program size and development time data - Time Recording log contains entry for PLAN phase. - Defect Tally header completed.
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PSP1 Development Script

Purpose	To guide the development of small programs
Entry Criteria	<ul style="list-style-type: none"> - Same as exit criteria for Planning Script. - Blank PSP Design Form

Step	Activities	Description
1	Design	<ul style="list-style-type: none"> - Record start time in the Time Recording log. - Review the requirements and produce a complete design to meet them. - Record any design work you do in the PSP Design Form. - Record stop time in the Time Recording log.
2	Code	<ul style="list-style-type: none"> - Record start time in the Time Recording log. - Write the entire source code for the solution on paper or in a text editor. - Enter (or copy) the source code into the BlueJ (or plain text) editor. - Record in the Defect Tally any requirements or design defects found. - Record stop time in the Time Recording log.
3	Compile	<ul style="list-style-type: none"> - Record start time in the Time Recording log. - Compile the program until there are no compile errors. - Fix all defects found. - Record defects in the Defect Tally. - Record stop time in the Time Recording log.
4	Test	<ul style="list-style-type: none"> - Record start time in the Time Recording log. - Test until all tests run without error. - Fix all defects found. - Record defects in the Defect Tally. - Record stop time in the Time Recording log.
Exit Criteria		<ul style="list-style-type: none"> - A thoroughly tested program. - Completed PSP Design Form. - Time Log entries for Plan through Test Phases. - Completed Defect Tally form.

PSP1 Postmortem Script

Purpose	To guide the PSP postmortem process
Entry Criteria	- Same as exit criteria for Development Script.

Step	Activities	Description
1	Defect Data Consistency	<ul style="list-style-type: none"> - Record start time for Postmortem in the Time Recording log. - Verify that all of the defects found in each phase were recorded in the Defect Tally. - Verify that the numbers of defects injected and removed per phase are reasonable and correct. - Check that the data on every defect in the Defect Tally are accurate and complete. - Using your best recollection, correct any missing or incorrect defect data.
2	Defect Summarizing	<ul style="list-style-type: none"> - Summarize Defect Tally data on Project Summary form.
3	Size	<ul style="list-style-type: none"> - Count the size of the completed program using LOC counter. Don't count comments. - Enter this data in the Project Summary form.
4	Time	<ul style="list-style-type: none"> - Review the completed Time Recording log for errors or omissions. - Using your best recollection, correct any missing or incomplete time data. - Compute delta time for all completed log entries. - Guess how long it will take to complete the Project Summary calculations and enter your guessed stop time in the Time Log. Compute the delta time. - Summarize time data on Project Summary form. - Finish remaining calculations on Project Summary form.
Exit Criteria		- A thoroughly tested program that conforms to the size counting standards

	<ul style="list-style-type: none">- Completed Project Summary form- Completed Time Recording Log and Defect Tally forms.
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