

**PSP1 Process Script**

version 1.2

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

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

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

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

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

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

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

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

### PSP1 Postmortem Script

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

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

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