**PSP2 Project Plan Summary**

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| Student | Diego Andrés Montealegre García | Date | 22-02-2015 |
| Program | PSP 2 | Program # | 5 |
| Instructor | Luis Daniel Benavides Navarro | Language | Java |

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| **Summary** | **Plan** |  | | | **Actual** | |  | | **To Date** |
| Size/Hour | 2.91 |  | | | 1,3393939 | |  | |  |
| Planned Time | 120 |  | | |  | |  | |  |
| Actual Time |  |  | | | 165 | |  | |  |
| CPI (Cost-Performance Index) |  |  | | |  | |  | |  |
|  |  |  | | |  | |  | | (Planned/Actual) |
| % Reuse | 0 |  | | | 0 | |  | | 12,033% |
| % New Reusable | 18.1818% |  | | | 5.82% | |  | | 5.82% |
| ***Test Defects/KLOC or equivalent*** | 0 |  | | | 0 | |  | | 0 |
| ***Total Defects/KLOC or equivalent*** | 0 |  | | | 0 | |  | | 0 |
| ***Yield %*** | 00 |  | | | 0 | |  | | 0 |
|  |  |  | | |  | |  | |  |
| **Program Size** | **Plan** |  | | | **Actual** | |  | | **To Date** |
| Base (B) | 00 |  | | | 0 | |  | |  |
|  | (Measured) |  | | | (Measured) | |  | |  |
| Deleted (D) | 0 |  | | | 0 | |  | |  |
|  | (Estimated) |  | | | (Counted) | |  | |  |
| Modified (M) | 0 |  | | | 0 | |  | |  |
|  | (Estimated) |  | | | (Counted) | |  | |  |
| Added (A) | 146,4869281 | |  | 221 | |  | |  | |
|  | (A+M − M) | |  | (T − B + D − R) | |  | |  | |
| Reused (R) | 0 | |  | 0 | |  | | 29 | |
|  | (Estimated) | |  | (Counted) | |  | |  | |
| Added and Modified (A+M) | 146,4869281 | |  | 221 | |  | | 903 | |
|  | (Projected) | |  | (A + M) | |  | |  | |
| Total Size (T) | 146,4869281 | |  | 221 | |  | | 1028 | |
|  | (A+M + B − M − D + R) | |  | (Measured) | |  | |  | |
| Total New Reusable | 50 | |  | 13 | |  | | 15 | |
|  |  | |  |  | |  | |  | |
| Estimated Proxy Size (E) |  | |  |  | |  | |  | |

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| **Time in Phase (min.)** | **Plan** |  | **Actual** | | |  | **To Date** | | |  | **To Date %** |
| Planning | 6 |  | 25 | | |  | 55 | | |  | 7% |
| Design | 6.4 |  | 8 | | |  | 40 | | |  | 5% |
| ***Design Review*** | 12 |  | 4 | | |  | 4 | | |  | 1% |
| Code | 51,4 |  | 48 | | |  | 424 | | |  | 57% |
| ***Code Review*** | 12 |  | 15 | | |  | 15 | | |  | 2% |
| Compile | 0 |  | 0 | | |  | 0 | | |  | 0% |
| Test | 17.1 |  | 10 | | |  | 95 | | |  | 13% |
| Postmortem | 15.1 |  | 40 | | |  | 115 | | |  | 15% |
| Total | 120 |  | 165 | | |  | 748 | | |  | 100% |

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**PSP2 Project Plan Summary (continued)**

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| Student | DIEGO ANDRÉS MONTEALEGRE GARCIA | Program # | 5 |

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| **Defects Injected** | ***Plan*** |  | **Actual** | | |  | **To Date** | | |  | **To Date %** |
| Planning | 0 |  | 0 | | |  | 0 | | |  | 0 |
| Design | 0 |  | 0 | | |  | 0 | | |  | 0 |
| ***Design Review*** | 0 |  | 0 | | |  | 0 | | |  | 0 |
| Code | 0 |  | 0 | | |  | 5 | | |  | 100% |
| ***Code Review*** | 0 |  | 0 | | |  | 0 | | |  | 0 |
| Compile | 0 |  | 0 | | |  | 0 | | |  | 0 |
| Test | 0 |  | 0 | | |  | 0 | | |  | 0 |
| Total Development | 0 |  | 0 | | |  | 5 | | |  | 0 |
|  |  |  |  | | |  |  | | |  |  |
| **Defects Removed** | ***Plan*** |  | **Actual** | | |  | **To Date** | | |  | **To Date %** |
| Planning | 0 |  | 0 | | |  | 0 | | |  | 0 |
| Design | 0 |  | 0 | | |  | 0 | | |  | 0 |
| ***Design Review*** | 0 |  | 0 | | |  | 0 | | |  | 0 |
| Code | 0 |  | 0 | | |  | 5 | | |  | 100% |
| ***Code Review*** | 0 |  | 0 | | |  | 0 | | |  | 0 |
| Compile | 0 |  | 0 | | |  | 0 | | |  | 0 |
| Test | 0 |  | 0 | | |  | 0 | | |  | 0 |
| Total Development | 0 |  | 0 | | |  | 5 | | |  | 100% |
| After Development | 0 |  | 0 | | |  | 0 | | |  |  |
|  |  | | |  |  | | |  |  | | |
| ***Defect Removal Efficiency*** | ***Plan*** | | |  | ***Actual*** | | |  | ***To Date*** | | |
| ***Defects/Hour − Design Review*** | 0 | | |  | 0 | | |  | 0 | | |
| ***Defects/Hour − Code Review*** | 0 | | |  | 0 | | |  | 0 | | |
| ***Defects/Hour − Compile*** | 0 | | |  | 0 | | |  | 0 | | |
| ***Defects/Hour − Test*** | 0 | | |  | 0 | | |  | 0 | | |
| ***DRL (DLDR/UT)*** | 0 | | |  | 0 | | |  | 0 | | |
| ***DRL (Code Review/UT)*** | 0 | | |  | 0 | | |  | 0 | | |
| ***DRL (Compile/UT)*** | 0 | | |  | 0 | | |  | 0 | | |

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| **PSP2 Plan Summary Instructions** | |  |
| **Purpose** | To hold the plan and actual data for programs or program parts | |
| **General** | * Use the most appropriate size measure, either LOC or element count. * “To Date” is the total actual to-date values for all products developed. * A part could be a module, component, product, or system. | |
| **Header** | * Enter your name and the date. * Enter the program name and number. * Enter the instructor’s name and the programming language you are using. | |
| **Summary** | * Enter the added and modified size per hour planned, actual, and to-date. * Enter the planned and actual times for this program and prior programs. * For planned time to date, use the sum of the current planned time and the ***to-date*** planned time for the ***most recent*** prior program. * CPI = (To Date Planned Time)/(To Date Actual Time). * Reused % is reused size as a percentage of total program size. * New Reusable % is new reusable size as a percentage of added and modified size. * ***Enter the test and total defects/KLOC or other appropriate measure.*** * ***Enter the planned, actual, and to-date yield before compile.*** | |
| **Program Size** | * Enter plan base, deleted, modified, reused, new reusable, and total size from the Size Estimating template. * Enter the plan added and modified size value (A+M) from projected added and modified size (P) on the Size Estimating template. * Calculate plan added size as A+M – M. * Enter estimated proxy size (E) from the Size Estimating template. * Enter actual base, deleted, modified, reused, total, and new reusable size from the Size Estimating template. * Calculate actual added size as T-B+D-R and actual added and modified size as A+M. * Enter to-date reused, added and modified, total, and new reusable size. | |
| **Time in Phase** | * Enter plan total time in phase from the estimated total development time on the Size Estimating template. * Distribute the estimated total time across the development phases according to the To Date % for the most recently developed program. * Enter the actual time by phase and the total time. * To Date: Enter the sum of the actual times for this program plus the to-date times from the most recently developed program. * To Date %: Enter the percentage of to-date time in each phase. | |

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| **PSP2 Plan Summary Instructions (continued)** | |  |
| **Defects Injected** | * ***Enter the total estimated defects injected.*** * ***Distribute the estimated total defects across the development phases according to the To Date % for the most recently developed program.*** * Enter the actual defects by phase and the total actual defects. * To Date: Enter the sum of the actual defects injected by phase and the to-date values for the most recent previously developed program. * To Date %: Enter the percentage of the to-date defects injected by phase. | |
| **Defects Removed** | * ***Enter the estimated total defects removed.*** * ***Distribute the estimated total defects across the development phases according to the To Date % for the most recently developed program.*** * To Date: Enter the actual defects removed by phase plus the to-date values for the most recent previously developed program. * To Date %: Enter the percentage of the to-date defects removed by phase. * After development, record any defects subsequently found during program testing, use, reuse, or modification. | |
| ***Defect-Removal Efficiency*** | * ***Calculate and enter the defects removed per hour in design review, code review, compile, and test.*** * ***For DRL, take the ratio of the review and compile rates with test.*** * ***Where there were no test defects, use the to-date test defect/hour value.*** | |