PSP Work Package Planning Script

Personal Software Process for Engineers

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| Purpose | To guide work package development planning |
| Inputs required | * Relevant requirements, architecture, and high-level design specifications * PSP Size Estimating Template, Project Plan, and Cycle plan * TSP Toolkit for tracking schedule, time, defects, and size * Historical estimated and actual size, time, and defect data |
| Program requirements | * Review requirements and design information to ensure that they are clear, complete, and unambiguous. * Resolve any questions. |
| Size estimate | * Produce a planning model that identifies new and existing components to implement the relevant functionality implied by requirements and compatible with the higher-level design. * Estimate the size of any new components. * Estimate the size of additions and modifications to any existing components. * Complete the Size Estimating Template and Project Plan summary. * Calculate likely lower and upper bounds on the size of the package. |
| Cyclic development strategy | * Group component additions and modifications in a way that produces testable increments. * Identify the size associated with each incremental cycle. * Enter the size data in the PSP Cycle Summary-Plan. |
| Resource estimate | * Use relevant historical data to estimate the time required to develop the new and changed components. * Calculate likely lower and upper bounds on the time required. * Enter the estimated time and bounds on the Project Plan summary. * Subdivide this total development time among the development cycles. * Distribute the development time over the planned project activities of each development cycle. * Enter the time data in the PSP Cycle Summary-Plan. |
| Task and schedule planning | For projects requiring several days or more of work, complete the task planning and schedule planning templates. |
| Defect estimate | * Based on your data on defect density, estimate the total defects to be found in this program. * Based on your data on defect distribution, estimate the numbers of defects to be injected and removed by activity. * Enter the overall defect data in the Project Plan summary. * Distribute defects across the development cycles and activities. * Enter the defect data in the PSP Cycle Summary-Plan. |
| Exit criteria | * A documented requirements statement * The work package planning model * A completed Size Estimating Template * For projects of several days' duration, completed task planning and schedule planning templates * Project Plan and cycle plan, with estimated program size, development time, and defect distribution * Lower and upper bound predictions of size and time for the total project * Completed time recording log |

Document Markings

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