#### TSPi Quality Plan: Form SUMQ

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Lim Chong Fatt | Date | 10/12/2014 |
| Team | .DUEL | Instructor | Mdm. Nurfauza Jali |
| Part/Level | 3-Seven Tetris | Cycle | 1 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Summary Rates** | **Plan** |  | **Actual** |
| LOC/hour | 25 |  | 20 |
| % Reuse (% of total LOC) | 30 |  | 25 |
| % New Reuse (% of N&C LOC) | 30 |  | 30 |
| **Percent Defect-Free (PDF)** |  |  |  |
| In compile | 90 |  | 100 |
| In unit test | 80 |  | 66.67 |
| In build and integration | 90 |  | 66.67 |
| In system test | 95 |  | 66.67 |
| **Defect/page** |  |  |  |
| Requirements inspection | 0.5 |  | 0.67 |
| HLD inspection | 0.5 |  | 2.5 |
| **Defects/KLOC** |  |  |  |
| DLD review | 2.5 |  | 1.5 |
| DLD inspection | 2 |  | 1 |
| Code review | 10 |  | 5 |
| Compile | 5 |  | 1 |
| Code inspection | 3 |  | 2 |
| Unit test | 2 |  | 0.37 |
| Build and integration | 1 |  | 0.40 |
| System test | 1 |  | 0.32 |
| Total development | 25 |  | 20 |
| **Defect Ratios** |  |  |  |
| Code review/Compile | 0.4 |  | 0.2 |
| DLD review/Unit test | 0 |  | 0 |
| **Development time ratios (%)** |  |  |  |
| Requirements inspection/Requirements | 0.333 |  | 0.450 |
| HLD inspection/HLD | 0.222 |  | 0.300 |
| DLD/code | 0.040 |  | 0.055 |
| DLD review/DLD | 2.666 |  | 1.879 |
| Code review/code | 0.150 |  | 0.067 |
| **A/FR** |  |  |  |
| **Review rates** |  |  |  |
| DLD lines/hour | 30.423 |  | 22.546 |
| Code LOC/hour | 38.745 |  | 30.428 |
| **Inspection rates** |  |  |  |
| Requirement pages/hour | 0.6 |  | 0.72 |
| HLD pages/hour | 1.66 |  | 1.33 |
| DLD lines/hour | 180.54 |  | 173.56 |
| Code LOC/hour | 160.65 |  | 155.74 |
|  |  |  |  |

**(continued)**

#### TSPi Quality Plan: Form SUMQ (continued)

|  |  |  |  |
| --- | --- | --- | --- |
| **Defect-injection Rates (Defects/Hr.)** | **Plan** |  | **Actual** |
| Requirements | 0.333 |  | 0.333 |
| HLD | 0.185 |  | 0.155 |
| DLD | 0.833 |  | 0.307 |
| Code | 0.175 |  | 0.434 |
| Compile | 0.575 |  | 0 |
| Unit test | 0.625 |  | 0.342 |
| Build and integration | 0.090 |  | 0.125 |
| System test | 0.155 |  | 0.133 |
|  |  |  |  |
| **Defect-removal Rates (Defects/Hr.)** |  |  |  |
| Requirements inspection | 2 |  | 1.219 |
| HLD inspection | 1.66 |  | 0.66 |
| DLD review | 0.312 |  | 0.2 |
| DLD inspection | 0.454 |  | 0.322 |
| Code review | 2.5 |  | 0.75 |
| Compile | 4.356 |  | 1.832 |
| Code inspection | 0.88 |  | 0.25 |
| Unit test | 1.2 |  | 0.588 |
| Build and integration | 0.43 |  | 0.125 |
| System test | 0.379 |  | 0.203 |
|  |  |  |  |
| **Phase Yields** |  |  |  |
| Requirements inspection | 100 |  | 100 |
| HLD inspection | 100 |  | 100 |
| DLD review | 100 |  | 100 |
| Test development | 75 |  | 100 |
| DLD inspection | 100 |  | 100 |
| Code review | 60 |  | 75 |
| Compile | 80 |  | 85 |
| Code inspection | 90 |  | 70 |
| Unit test | 85 |  | 100 |
| Build and integration | 90 |  | 100 |
| System test | 90 |  | 90 |
|  |  |  |  |
| **Process Yields** |  |  |  |
| % before compile |  |  | 75 |
| % before unit test |  |  | 100 |
| % before build and integration |  |  | 100 |
| % before system test |  |  | 85 |
| % before system delivery |  |  | 90 |