**BOTTOM-UP COST ESTIMATING WORKSHEET**

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| **Project Title:** | APWA Self-Assessment | **Date Prepared:** | April 2, 2015 |

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| **[WBS ID](#WBS_ID" \o "Unique WBS identifier.)** | **[Labor Hours](#Labor_Hours" \o "Enter the estimated effort hours.)** | **[Labor Rates](#Labor_Rates" \o "Enter the hourly or daily rate.)** | **[Total Labor](#Total_Labor" \o "Multiply the labor hours times the labor rate.)** | **[Material](#Material" \o "Enter quotes for material, either from vendors or multiply the amount of material times the cost per unit.)** | **[Supplies](#Supplies" \o "Enter quotes for supplies, either from vendors or multiply the amount of supplies times the cost per unit.)** | **[Equipment](#Equipment" \o "Enter quotes to rent, lease, or purchase equipment.)** | **[Travel](#Travel" \o "Enter quotes for travel.)** | **[Other Direct Costs](#Other_Direct_Costs" \o "Enter any other direct costs and document the type of cost.)** | **[Indirect Costs](#Indirect_Costs" \o "Enter any indirect costs, such as overhead.)** | **[Reserve](#Reserve" \o "Enter any contingency reserve cost for the work package.)** | **[Estimate](#Estimate" \o "Sum the labor, materials, supplies, equipment, travel, other direct costs, in-direct costs, and any reserve.)** |
| 1.1 | 4 | $150/hr | $600 |  |  |  |  |  | $600 |  | $600 |
| 1.2 | 16 | $150/hr | $2,400 |  |  |  |  |  | $2,400 |  | $2,400 |
| 1.3 | 12 | $150/hr | $1,800 |  |  |  |  |  | $1,800 |  | $1,800 |
| 2.1 | 60 | $150/hr | $9,000 |  |  |  |  |  | $9,000 |  | $9,000 |
| 2.2 | 10 | $150/hr | $1,500 |  |  |  |  |  | $1,500 |  | $1,500 |
| 2.3 | 40 | $150/hr | $6,000 |  |  |  |  |  | $6,000 |  | $6,000 |
| 2.4 | 40 | $150/hr | $6,000 |  |  |  |  |  | $6,000 |  | $6,000 |
| 2.5 | 20 | $150/hr | $3,000 |  |  |  |  |  | $3,000 |  | $3,000 |
| 2.6 | 40 | $150/hr | $6,000 |  |  |  |  |  | $6,000 |  | $6,000 |
| 2.7 | 24 | $150/hr | $3,600 |  |  |  |  |  | $3,600 |  | $3,600 |
| 3.1 | 17 | $75/hr | $1,275 |  | $100 |  |  |  | $1,275 |  | $1,375 |
| 3.1 | 53 | $150/hr | $7,950 |  |  |  |  |  | $7,950 |  | $7,950 |
| 3.2 | 83 | $150/hr | $12,450 |  |  |  |  | $30,000 | $12,450 | $3,000 | $45,450 |
| 3.3. | 10 | $150/hr | $1,500 |  |  |  |  | $16,400 |  |  | $17,900 |
| 3.4. | 10 | $150/hr | $1,500 |  |  |  | $2,500 |  |  | $500 | $4,500 |
| 4.1 | 2,948 | $150/hr | $442,200 |  |  |  |  |  | $442,200 |  | $442,200 |
| 4.1 | 2,752 | $75/hr | $206,400 |  |  |  |  |  | $206,400 |  | $206,400 |
| 4.2 | 120 | $150/hr | $18,000 |  |  |  |  |  | $18,000 |  | $18,000 |
| 4.3 | 120 | $150/hr | $18,000 |  |  |  |  |  | $18,000 |  | $18,000 |
| 4.3 | 120 | $75/hr | $9,000 |  |  |  |  |  | $9,000 |  | $9,000 |
| 5.1 | 10 | $150/hr | $1,500 |  |  |  |  |  | $1,500 |  | $1,500 |
| 5.2 | 60 | $150/hr | $9,000 |  |  |  |  |  | $9,000 |  | $9,000 |
| 5.3 | 40 | $150/hr | $6,000 |  |  |  |  |  | $6,000 |  | $6,000 |
| 5.4 | 70 | $150/hr | $10,500 |  |  |  |  |  | $10,500 |  | $10,500 |
| 5.5 | 121 | $150/hr | $18,150 |  |  |  |  |  | $18,150 |  | $18,150 |
| 5.6 | 4 | $150/hr | $600 |  |  |  |  |  | $600 |  | $600 |
| 5.7 | 10 | $150/hr | $1,500 |  |  |  |  |  | $1,500 |  | $1,500 |
| 6.1 | 40 | $150/hr | $6,000 |  |  |  |  | $1,000 | $6,000 |  | $7,000 |
| 6.2 | 20 | $150/hr | $3,000 |  |  |  |  |  | $3,000 |  | $3,000 |
| 6.3 | 12 | $150/hr | $1,800 |  |  |  |  |  | $1,800 |  | $1,800 |
| 6.4 | 42 | $150/hr | $6,300 |  |  |  |  | $3,000 | $6,300 |  | $9,300 |
| 6.4 | 11 | $75/hr | $825 |  |  |  |  |  | $825 |  | $825 |
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