Safety AHP Results

# Engineer 1

Pairwise Comparison Matrix:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 3.0000 |
| 1.0000 | 1.0000 | 1.0000 | 0.3333 | 1.0000 |

Weights:  
 [0.19414572 0.19414572 0.19414572 0.25663329 0.16092955]

Max Eigenvalue: 5.1508+0.0000j

Consistency Index (CI): 0.0377+0.0000j

Consistency Ratio (CR): 0.0337+0.0000j

Random Index (RI): 1.1200

# Engineer 2

Pairwise Comparison Matrix:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1.0000 | 3.0000 | 3.0000 | 3.0000 | 3.0000 |
| 0.3333 | 1.0000 | 3.0000 | 3.0000 | 3.0000 |
| 0.3333 | 0.3333 | 1.0000 | 1.0000 | 3.0000 |
| 0.3333 | 0.3333 | 1.0000 | 1.0000 | 1.0000 |
| 0.3333 | 0.3333 | 0.3333 | 1.0000 | 1.0000 |

Weights:  
 [0.4110097 0.26085061 0.13700323 0.10418625 0.0869502 ]

Max Eigenvalue: 5.2991+0.0000j

Consistency Index (CI): 0.0748+0.0000j

Consistency Ratio (CR): 0.0668+0.0000j

Random Index (RI): 1.1200

# Engineer 3

Pairwise Comparison Matrix:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1.0000 | 1.0000 | 3.0000 | 3.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 7.0000 | 9.0000 |
| 0.3333 | 1.0000 | 1.0000 | 3.0000 | 3.0000 |
| 0.3333 | 0.1429 | 0.3333 | 1.0000 | 3.0000 |
| 1.0000 | 0.1111 | 0.3333 | 0.3333 | 1.0000 |

Weights:  
 [0.26431424 0.36810511 0.19603437 0.09062309 0.08092318]

Max Eigenvalue: 5.9524+0.0000j

Consistency Index (CI): 0.2381+0.0000j

Consistency Ratio (CR): 0.2126+0.0000j

Random Index (RI): 1.1200

# Engineer 4

Pairwise Comparison Matrix:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |

Weights:  
 [0.2 0.2 0.2 0.2 0.2]

Max Eigenvalue: 5.0000

Consistency Index (CI): -0.0000

Consistency Ratio (CR): -0.0000

Random Index (RI): 1.1200

# Engineer 5

Pairwise Comparison Matrix:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |

Weights:  
 [0.2 0.2 0.2 0.2 0.2]

Max Eigenvalue: 5.0000

Consistency Index (CI): -0.0000

Consistency Ratio (CR): -0.0000

Random Index (RI): 1.1200

# Engineer 6

Pairwise Comparison Matrix:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |

Weights:  
 [0.2 0.2 0.2 0.2 0.2]

Max Eigenvalue: 5.0000

Consistency Index (CI): -0.0000

Consistency Ratio (CR): -0.0000

Random Index (RI): 1.1200

# Engineer 7

Pairwise Comparison Matrix:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 3.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 0.3333 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |

Weights:  
 [0.19414572 0.25663329 0.19414572 0.16092955 0.19414572]

Max Eigenvalue: 5.1508+0.0000j

Consistency Index (CI): 0.0377+0.0000j

Consistency Ratio (CR): 0.0337+0.0000j

Random Index (RI): 1.1200

# Engineer 8

Pairwise Comparison Matrix:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |

Weights:  
 [0.2 0.2 0.2 0.2 0.2]

Max Eigenvalue: 5.0000

Consistency Index (CI): -0.0000

Consistency Ratio (CR): -0.0000

Random Index (RI): 1.1200

# Engineer 9

Pairwise Comparison Matrix:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1.0000 | 3.0000 | 5.0000 | 5.0000 | 5.0000 |
| 0.3333 | 1.0000 | 3.0000 | 1.0000 | 1.0000 |
| 0.2000 | 0.3333 | 1.0000 | 3.0000 | 3.0000 |
| 0.2000 | 1.0000 | 0.3333 | 1.0000 | 3.0000 |
| 0.2000 | 1.0000 | 0.3333 | 0.3333 | 1.0000 |

Weights:  
 [0.47886547 0.17332137 0.15510103 0.11648015 0.07623198]

Max Eigenvalue: 5.7175+0.0000j

Consistency Index (CI): 0.1794+0.0000j

Consistency Ratio (CR): 0.1601+0.0000j

Random Index (RI): 1.1200

# Engineer 10

Pairwise Comparison Matrix:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |

Weights:  
 [0.2 0.2 0.2 0.2 0.2]

Max Eigenvalue: 5.0000

Consistency Index (CI): -0.0000

Consistency Ratio (CR): -0.0000

Random Index (RI): 1.1200

# Engineer 11

Pairwise Comparison Matrix:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1.0000 | 1.0000 | 3.0000 | 3.0000 | 3.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 0.3333 | 1.0000 | 1.0000 | 1.0000 | 3.0000 |
| 0.3333 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 0.3333 | 1.0000 | 0.3333 | 1.0000 | 1.0000 |

Weights:  
 [0.35930156 0.18871137 0.18871137 0.14350851 0.11976719]

Max Eigenvalue: 5.2991+0.0000j

Consistency Index (CI): 0.0748+0.0000j

Consistency Ratio (CR): 0.0668+0.0000j

Random Index (RI): 1.1200

# Engineer 12

Pairwise Comparison Matrix:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1.0000 | 1.0000 | 1.0000 | 0.1111 | 0.2000 |
| 1.0000 | 1.0000 | 1.0000 | 0.2000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.1429 |
| 9.0009 | 5.0000 | 1.0000 | 1.0000 | 1.0000 |
| 5.0000 | 1.0000 | 6.9979 | 1.0000 | 1.0000 |

Weights:  
 [0.070981 0.12209682 0.12002369 0.347889 0.33900948]

Max Eigenvalue: 5.9108+0.0000j

Consistency Index (CI): 0.2277+0.0000j

Consistency Ratio (CR): 0.2033+0.0000j

Random Index (RI): 1.1200

# Engineer 13

Pairwise Comparison Matrix:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1.0000 | 3.0000 | 5.0000 | 5.0000 | 5.0000 |
| 0.3333 | 1.0000 | 7.0000 | 7.0000 | 5.0000 |
| 0.2000 | 0.1429 | 1.0000 | 3.0000 | 5.0000 |
| 0.2000 | 0.1429 | 0.3333 | 1.0000 | 3.0000 |
| 0.2000 | 0.2000 | 0.2000 | 0.3333 | 1.0000 |

Weights:  
 [0.44402041 0.33682429 0.11347796 0.06350802 0.04216933]

Max Eigenvalue: 5.7436+0.0000j

Consistency Index (CI): 0.1859+0.0000j

Consistency Ratio (CR): 0.1660+0.0000j

Random Index (RI): 1.1200

# Engineer 14

Pairwise Comparison Matrix:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1.0000 | 1.0000 | 9.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 5.0000 | 1.0000 | 3.0000 |
| 0.1111 | 0.2000 | 1.0000 | 1.0000 | 3.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 3.0000 |
| 1.0000 | 0.3333 | 0.3333 | 0.3333 | 1.0000 |

Weights:  
 [0.31525248 0.27251691 0.11517977 0.19692622 0.10012462]

Max Eigenvalue: 6.0949+0.0000j

Consistency Index (CI): 0.2737+0.0000j

Consistency Ratio (CR): 0.2444+0.0000j

Random Index (RI): 1.1200

# Engineer 15

Pairwise Comparison Matrix:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 3.0000 | 3.0000 |
| 1.0000 | 1.0000 | 0.3333 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 0.3333 | 1.0000 | 1.0000 |

Weights:  
 [0.19240265 0.19240265 0.30988676 0.15265396 0.15265396]

Max Eigenvalue: 5.1974+0.0000j

Consistency Index (CI): 0.0494+0.0000j

Consistency Ratio (CR): 0.0441+0.0000j

Random Index (RI): 1.1200

# Engineer 16

Pairwise Comparison Matrix:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.1429 |
| 1.0000 | 1.0000 | 7.0000 | 7.0000 | 5.0000 |
| 1.0000 | 0.1429 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 0.1429 | 1.0000 | 1.0000 | 1.0000 |
| 6.9979 | 0.2000 | 1.0000 | 1.0000 | 1.0000 |

Weights:  
 [0.12729126 0.46814195 0.09365332 0.09365332 0.21726014]

Max Eigenvalue: 6.3931+0.0000j

Consistency Index (CI): 0.3483+0.0000j

Consistency Ratio (CR): 0.3110+0.0000j

Random Index (RI): 1.1200

# Engineer 17

Pairwise Comparison Matrix:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |

Weights:  
 [0.2 0.2 0.2 0.2 0.2]

Max Eigenvalue: 5.0000

Consistency Index (CI): -0.0000

Consistency Ratio (CR): -0.0000

Random Index (RI): 1.1200

# Engineer 18

Pairwise Comparison Matrix:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |

Weights:  
 [0.2 0.2 0.2 0.2 0.2]

Max Eigenvalue: 5.0000

Consistency Index (CI): -0.0000

Consistency Ratio (CR): -0.0000

Random Index (RI): 1.1200

# Engineer 19

Pairwise Comparison Matrix:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |

Weights:  
 [0.2 0.2 0.2 0.2 0.2]

Max Eigenvalue: 5.0000

Consistency Index (CI): -0.0000

Consistency Ratio (CR): -0.0000

Random Index (RI): 1.1200

# Engineer 20

Pairwise Comparison Matrix:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1.0000 | 1.0000 | 1.0000 | 5.0000 | 5.0000 |
| 1.0000 | 1.0000 | 5.0000 | 1.0000 | 5.0000 |
| 1.0000 | 0.2000 | 1.0000 | 5.0000 | 5.0000 |
| 0.2000 | 1.0000 | 0.2000 | 1.0000 | 5.0000 |
| 0.2000 | 0.2000 | 0.2000 | 0.2000 | 1.0000 |

Weights:  
 [0.2716395 0.33939957 0.22689241 0.12410253 0.03796599]

Max Eigenvalue: 6.0679+0.0000j

Consistency Index (CI): 0.2670+0.0000j

Consistency Ratio (CR): 0.2384+0.0000j

Random Index (RI): 1.1200

# Engineer 21

Pairwise Comparison Matrix:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1.0000 | 1.0000 | 3.0000 | 5.0000 | 3.0000 |
| 1.0000 | 1.0000 | 1.0000 | 5.0000 | 3.0000 |
| 0.3333 | 1.0000 | 1.0000 | 3.0000 | 3.0000 |
| 0.2000 | 0.2000 | 0.3333 | 1.0000 | 3.0000 |
| 0.3333 | 0.3333 | 0.3333 | 0.3333 | 1.0000 |

Weights:  
 [0.35500539 0.28010958 0.20195929 0.0924 0.07052574]

Max Eigenvalue: 5.3931+0.0000j

Consistency Index (CI): 0.0983+0.0000j

Consistency Ratio (CR): 0.0877+0.0000j

Random Index (RI): 1.1200

# Engineer 22

Pairwise Comparison Matrix:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1.0000 | 1.0000 | 0.1111 | 1.0000 | 0.1111 |
| 1.0000 | 1.0000 | 0.1111 | 1.0000 | 1.0000 |
| 9.0009 | 9.0009 | 1.0000 | 1.0000 | 9.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.1429 |
| 9.0009 | 1.0000 | 0.1111 | 6.9979 | 1.0000 |

Weights:  
 [0.04581566 0.07449733 0.53866838 0.11528478 0.22573385]

Max Eigenvalue: 6.9959+0.0000j

Consistency Index (CI): 0.4990+0.0000j

Consistency Ratio (CR): 0.4455+0.0000j

Random Index (RI): 1.1200

# Engineer 23

Pairwise Comparison Matrix:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1.0000 | 1.0000 | 3.0000 | 3.0000 | 3.0000 |
| 1.0000 | 1.0000 | 5.0000 | 5.0000 | 5.0000 |
| 0.3333 | 0.2000 | 1.0000 | 5.0000 | 5.0000 |
| 0.3333 | 0.2000 | 0.2000 | 1.0000 | 3.0000 |
| 0.3333 | 0.2000 | 0.2000 | 0.3333 | 1.0000 |

Weights:  
 [0.28884011 0.3997038 0.18022158 0.07953679 0.05169772]

Max Eigenvalue: 5.6187+0.0000j

Consistency Index (CI): 0.1547+0.0000j

Consistency Ratio (CR): 0.1381+0.0000j

Random Index (RI): 1.1200

# Engineer 24

Pairwise Comparison Matrix:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |

Weights:  
 [0.2 0.2 0.2 0.2 0.2]

Max Eigenvalue: 5.0000

Consistency Index (CI): -0.0000

Consistency Ratio (CR): -0.0000

Random Index (RI): 1.1200

# Engineer 25

Pairwise Comparison Matrix:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1.0000 | 3.0000 | 3.0000 | 1.0000 | 1.0000 |
| 0.3333 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 0.3333 | 1.0000 | 1.0000 | 1.0000 | 3.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 3.0000 |
| 1.0000 | 1.0000 | 0.3333 | 0.3333 | 1.0000 |

Weights:  
 [0.30374229 0.14473147 0.19211502 0.22886385 0.13054738]

Max Eigenvalue: 5.5102+0.0000j

Consistency Index (CI): 0.1276+0.0000j

Consistency Ratio (CR): 0.1139+0.0000j

Random Index (RI): 1.1200

# Engineer 26

Pairwise Comparison Matrix:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1.0000 | 3.0000 | 3.0000 | 5.0000 | 3.0000 |
| 0.3333 | 1.0000 | 3.0000 | 5.0000 | 3.0000 |
| 0.3333 | 0.3333 | 1.0000 | 5.0000 | 3.0000 |
| 0.2000 | 0.2000 | 0.2000 | 1.0000 | 3.0000 |
| 0.3333 | 0.3333 | 0.3333 | 0.3333 | 1.0000 |

Weights:  
 [0.41096389 0.26835167 0.17522858 0.07902614 0.06642973]

Max Eigenvalue: 5.6845+0.0000j

Consistency Index (CI): 0.1711+0.0000j

Consistency Ratio (CR): 0.1528+0.0000j

Random Index (RI): 1.1200

# Engineer 27

Pairwise Comparison Matrix:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |

Weights:  
 [0.2 0.2 0.2 0.2 0.2]

Max Eigenvalue: 5.0000

Consistency Index (CI): -0.0000

Consistency Ratio (CR): -0.0000

Random Index (RI): 1.1200

# Engineer 28

Pairwise Comparison Matrix:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |

Weights:  
 [0.2 0.2 0.2 0.2 0.2]

Max Eigenvalue: 5.0000

Consistency Index (CI): -0.0000

Consistency Ratio (CR): -0.0000

Random Index (RI): 1.1200

# Engineer 29

Pairwise Comparison Matrix:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1.0000 | 3.0000 | 3.0000 | 1.0000 | 3.0000 |
| 0.3333 | 1.0000 | 3.0000 | 5.0000 | 3.0000 |
| 0.3333 | 0.3333 | 1.0000 | 3.0000 | 3.0000 |
| 1.0000 | 0.2000 | 0.3333 | 1.0000 | 3.0000 |
| 0.3333 | 0.3333 | 0.3333 | 0.3333 | 1.0000 |

Weights:  
 [0.34558531 0.29593151 0.16286505 0.13212163 0.06349651]

Max Eigenvalue: 5.9163+0.0000j

Consistency Index (CI): 0.2291+0.0000j

Consistency Ratio (CR): 0.2045+0.0000j

Random Index (RI): 1.1200

# Engineer 30

Pairwise Comparison Matrix:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 3.0000 | 3.0000 | 3.0000 |
| 1.0000 | 0.3333 | 1.0000 | 3.0000 | 1.0000 |
| 1.0000 | 0.3333 | 0.3333 | 1.0000 | 1.0000 |
| 1.0000 | 0.3333 | 1.0000 | 1.0000 | 1.0000 |

Weights:  
 [0.18871137 0.35930156 0.18871137 0.11976719 0.14350851]

Max Eigenvalue: 5.2991+0.0000j

Consistency Index (CI): 0.0748+0.0000j

Consistency Ratio (CR): 0.0668+0.0000j

Random Index (RI): 1.1200

# Engineer 31

Pairwise Comparison Matrix:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |

Weights:  
 [0.2 0.2 0.2 0.2 0.2]

Max Eigenvalue: 5.0000

Consistency Index (CI): -0.0000

Consistency Ratio (CR): -0.0000

Random Index (RI): 1.1200

# Engineer 32

Pairwise Comparison Matrix:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1.0000 | 3.0000 | 3.0000 | 3.0000 | 0.1111 |
| 0.3333 | 1.0000 | 0.1111 | 0.1111 | 0.1111 |
| 0.3333 | 9.0009 | 1.0000 | 0.1111 | 0.1111 |
| 0.3333 | 9.0009 | 9.0009 | 1.0000 | 0.1111 |
| 9.0009 | 9.0009 | 9.0009 | 9.0009 | 1.0000 |

Weights:  
 [0.14156957 0.02462067 0.06242047 0.15825383 0.61313545]

Max Eigenvalue: 6.6792+0.0000j

Consistency Index (CI): 0.4198+0.0000j

Consistency Ratio (CR): 0.3748+0.0000j

Random Index (RI): 1.1200

# Engineer 33

Pairwise Comparison Matrix:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |

Weights:  
 [0.2 0.2 0.2 0.2 0.2]

Max Eigenvalue: 5.0000

Consistency Index (CI): -0.0000

Consistency Ratio (CR): -0.0000

Random Index (RI): 1.1200

# Engineer 34

Pairwise Comparison Matrix:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |

Weights:  
 [0.2 0.2 0.2 0.2 0.2]

Max Eigenvalue: 5.0000

Consistency Index (CI): -0.0000

Consistency Ratio (CR): -0.0000

Random Index (RI): 1.1200

# Engineer 35

Pairwise Comparison Matrix:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |

Weights:  
 [0.2 0.2 0.2 0.2 0.2]

Max Eigenvalue: 5.0000

Consistency Index (CI): -0.0000

Consistency Ratio (CR): -0.0000

Random Index (RI): 1.1200

# Aggregate Results

Aggregate Pairwise Comparison Matrix:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1.0000 | 1.0512 | 1.1616 | 1.1889 | 1.1616 |
| 0.9513 | 1.0000 | 1.1050 | 1.2498 | 1.1616 |
| 0.8609 | 0.9050 | 1.0000 | 1.1616 | 1.2211 |
| 0.8411 | 0.8001 | 0.8609 | 1.0000 | 1.1050 |
| 0.8609 | 0.8609 | 0.8189 | 0.9050 | 1.0000 |

Aggregate Weights:  
 [0.22113811 0.21668799 0.20320724 0.182168 0.17679865]

Aggregate Max Eigenvalue: 5.0056+0.0000j

Aggregate Consistency Index (CI): 0.0014+0.0000j

Aggregate Consistency Ratio (CR): 0.0012+0.0000j

Aggregate Random Index (RI): 1.1200