Ponder 11

Two Scenarios

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# Definitions and Ranges

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| Variable | Meaning | Values |
| ACAP | Analyst, or software engineer, capability | 0.71, 0.86, 1.00, 1.19, 1.46 |
| DEXP | development system experience | 0.80 – 1.30 |
| DVOL | Development system volatility | 1.00, 1.07, 1.13, 1.19, 1.25 |
| LEXP | programming language experience | 1.00-1.50 |
| MCLS | Number and severity of security classifications in the project, multiple classifications | 1.00, 1.06, 1.10, 1.15 |
| MODP | Use of modern practices | 0.83, 0.91, 1.00, 1.10, 1.21 |
| MORG | Number of real or virtual organizations involved in software development, multiple organizations | 1.00, 1.09, 1.15, 1.25 |
| MULT | Number and proximity of development sites, multiple development sites | 1.00, 1.07, 1.13, 1.20 |
| PCAP | Programmer, or coder, capability | 0.70, 0.86, 1.00, 1.17, 1.42 |
| PEXP | practices and methods experience | 0.80-1.40 |
| PVOL | Practices/methods volatility | 1.00, 1.08, 1.15, 1.23, 1.30 |
| RLOC | Location of development support personnel, resource support locations | 1.00, 1.12, 1.23, 1.35 |
| TEXP | target system experience | 1.00-1.12 |
| TOOL | Use of modern development tools | 0.83, 0.91, 1.00, 1.10, 1.24 |

# Scenario 1: Owner of a small company

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| Variable | Feature | Value/Justification |
| ACAP | Bi-Weekly training | 1.46 – More training should make more capable software engineers |
| DEXP | Stable Development Environment | 1.00 – This will average between all members |
| DVOL | Stable Development Environment | 1.07 – No changes, other then regular updates to newer versions |
| LEXP | Two standard languages (Kotlin/Swift) | 1.10 – Slight disadvantage over having a single language to master |
| MCLS | Contractual admin mode obligation | 1.00 – All employees will be allowed admin mode in whatever domain they need to develop in. |
| MODP | Bi-Weekly Training | 0.91 – Most modern practice will be used, and covered in the trainings |
| MORG | No outside contracting | 1.00 – small organization, no outside hlpe |
| MULT | Single site, remote option | 1.07 – With a single HQ and the option to work remote, we shouldn’t run into many multi-site issues |
| PCAP | Bi-Weekly Training | 0.86 – Trainings should help with capability |
| PEXP | Bi-Weekly Training | 0.90 - Trainings should help with experience |
| PVOL | 1 year minimum for any major practice/method change | 1.00 – This will keep the volitiality low |
| RLOC | Single site, remote option | 1.00 – Everyone is in the same place |
| TEXP | Two standard languages (Kotlin/Swift) | 1.00 – There are only two target systems |
| TOOL | Stable Development Environment | 1.10 – The stable environment means we’re not always running on latest |

# Scenario 2: A New Hire

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| Variable | Feature | Value/Justification |
| ACAP | Take Udemy courses to increase knowledge | The more valuable you are, the more your opinion will matter |
| DEXP | Work in the dev. System on personal projects | The more valuable you are, the more your opinion will matter |
| DVOL | Ask for reasons when tools change | Understanding the reason behind change will help you make the change easier. Or, if it’s not a good change you can bring up your concerns. |
| LEXP | Take Udemy courses to increase knowledge | The more valuable you are, the more your opinion will matter |
| MCLS | Ask if you can get the highest clearance | You don’t have to worry if you have clearance or you can access resources, if you have the top tier. |
| MODP | Study modern practices, and offer to hold a training on them | The more valuable you are, the more your opinion will matter. Sharing knowledge with your team will also help them use the same modern practices. |
| MORG | Makes sure to make everyone you work with feel like part of “the team” | This will reduce the impact of different teams working together. |
| MULT | Research and use modern communication tools. Ask I.T. if there are any that are being used by the company that you have access to | Modern communication tools can overcome multiple locations |
| PCAP | Take Udemy courses to increase knowledge | The more valuable you are, the more your opinion will matter |
| PEXP | Ask for documentation on practices and methods, then study them | The more valuable you are, the more your opinion will matter |
| PVOL | Ask for reasons when practices change | Understanding the reason behind change will help you make the change easier. Or, if it’s not a good change you can bring up your concerns. |
| RLOC | Research and use modern communication tools. Ask I.T. if there are any that are being used by the company that you have access to | Modern communication tools can overcome multiple locations |
| TEXP | Take Udemy courses to increase knowledge | The more valuable you are, the more your opinion will matter |
| TOOL | Make sure you’re always on the latest releases possible. | This will help make sure you have access to the latest features (I.E. VS 2017 vs. vs 2019) |