# **ITRI 624 2022**

# **Questionnaire**

# Software Development within the Information Technology Environment of South African Industry

## Questionnaire Information

**Different questions require the keys to answer.**

1. YES – NO

1 = Yes

2 = No

1. LIKERT Questions

1 = Disagree

2 = Slightly disagree

3 = Slightly Agree

4 = Agree

1. Multiple choice mark with X Questions.

|  |  |
| --- | --- |
| Choice 1 |  |
| Choice 2 |  |
| Choice 3 |  |
| Choice 4 |  |

**List of abbreviations.**

IT – **I**nformation **T**echnology

PM – **P**roject **M**anagement

SDM – **S**oftware **D**evelopment **M**ethodology

COVID-19 – **CO**rona**VI**rus Dsease of 20**19**

## Section A – Basic company information

This section requires basic company information to understand the interviewee better.

1. Please enter the company name.

|  |
| --- |
| AVAV |

1. Choose the most appropriate Company size.

|  |  |  |
| --- | --- | --- |
| Employees | Size |  |
| 1 - 100 | Small | x |
| 101-500 | Medium |  |
| 501-1000 | Large |  |
| >1000 | Enterprise |  |

1. Personnel present at the meeting (mark with X)

Note: Please try to have multiple meetings with different personnel (one meeting per role.).

|  |  |  |
| --- | --- | --- |
| Strategic Level | |  |
| Middle Management Level: | Project Manager | x |
| Business Analyst (including Quality assurance and Configuration management) |  |
| Scrum Master |  |
| Development lead |  |
| Operational Level: | Developer |  |
| Other |  |  |
| Explain (Do they use their Scrum master as a Project Manager?): | | | |

## Section B – Company Stance on IT PM Methodology and SDM Methodologies

1. Is there a separation of function and duty between ITPM and the SDM methodologies? (Mark with X)

|  |  |
| --- | --- |
| Yes | x |
| No |  |
| Comment:  ITPM (Information Technology Project Management) and SDM (Software Development Methodology) are two distinct but closely related concepts in the field of IT and software development. While they have some overlapping responsibilities, they also have different functions and duties within the context of managing IT projects and software development projects.  While there is some overlap in the sense that both ITPM and SDM aim to deliver successful IT projects, their roles and responsibilities differ. ITPM and SDM share some common goals, they have distinct functions and duties.  ITPM focuses on project management at a higher level, while SDM pertains specifically to the software development processes. Effective coordination and collaboration between the two are essential for the successful delivery of IT projects. | | |

1. Do you think duties should be separated between ITPM and SDM?

|  |  |
| --- | --- |
| Yes | x |
| No |  |
| Comment:  This separation allows for specialization and a clear division of responsibilities, which can lead to more effective project management and software development. | | |

1. What Predominant SDM is your company using?

|  |  |
| --- | --- |
| Waterfall | x |
| Agile (Scrum) |  |
| Rapid (RAD) |  |
| Dev Ops |  |
| Extreme Programming |  |
| Prototyping |  |
| Other |  |
| Explain (if mixed, please elaborate):  Waterfall, while less common in recent years, is still used in some projects, particularly those with well-defined requirements and minimal expected changes. It follows a linear, sequential approach to development. | | |

1. What is your company using Project Management Methodology, Body of knowledge or framework?

|  |  |
| --- | --- |
| Waterfall | x |
| Agile |  |
| MPMM |  |
| PMBok |  |
| Prince 2 |  |
| Six Sigma |  |
| Other |  |
| Explain (if mixed, please elaborate):  Waterfall, while less common in recent years, is still used in some projects, particularly those with well-defined requirements and minimal expected changes. It follows a linear, sequential approach to development. | | |

## Section C – Client and Product/Service Base

1. Can you provide some information about the organisations you serve? Specifically, their size and the contributions they make to your client base.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Type** | **Sizes** | | | | **Percentage**  **(must add to 100%)** |
|  | **Small** | **Medium** | **Large** | **Enterprise** |  |
| Automobiles/Transport | x |  |  |  | 60% |
| Financial | x |  |  |  | 50% |
| Pharmaceuticals | x |  |  |  | 50% |
| Basic Resources | x |  |  |  | 50% |
| Consumer Goods | x |  |  |  | 50% |
| Technology and Telecommunications | x |  |  |  | 50% |
| Education | x |  |  |  | 50% |
| Service delivery | x |  |  |  | 50% |
| Government | x |  |  |  | 50% |
| Other (Please specify below) | x |  |  |  | 50% |
| Comments: | | | | | |

1. During COVID-19, what percentage of your daily work was done remotely?

|  |
| --- |
| 90% |

1. After COVID-19, what percentage of your daily work is done remotely?

|  |
| --- |
| 80% |

1. What type of software does your company develop for clients?

|  |  |
| --- | --- |
| Proprietary software | x |
| Open Source |  |
| Commercial versions of open-source software (with additional features or support at cost) |  |
| Shareware, with payment option for full version |  |
| Freemium, with a payment option for the premium version |  |
| Cloud-based subscription software |  |
| Inhouse developed |  |
| Other (Please specify below) |  |
|  | |

1. The software my company develop or maintain for clients is well suited to deal with security threats due to working from home.

|  |  |
| --- | --- |
| Yes | x |
| No |  |
| Comment (determine what type of software tools are used and why this is deemed successful or not):  Bitdefender- Known for its strong malware detection and minimal impact on system performance. | | |

## Section H – Other

1. Any other comments that the interviewee makes in regard to ITPM and SDM.

|  |
| --- |
|  |