Outline of Job Career and Key Performance Indicator

(4) IT Architect

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Outline of Job Category

IT Architect

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Outline of IT Architect

Job Category	IT Architect		
Specialty Field	Application Architecture	Integration Architecture	Infrastructure Architecture
Level 7			
Level 6			
Level 5			
Level 4			
Level 3			
Level 2			
Level 1			

Description of Job Category

Analyzes problems in business and IT, and reconfigures them as requirements of information systematization to configure solution. Designs IT architecture with quality of whole information systems (consistency and, etc.) in order to realize customer business strategies by utilizing hardware and software-related skills (application related skills and methodology). Confirms that designed architecture comprises solution for problem, and is available for follow-on development and installation. In addition, clarifies criteria for information system in order to configure solutions. Moreover, assesses previously technical risks for feasibility.

In the IT investment phases, strategic information planning (clarification and analysis of problem (business and IT)) and solution design (structure and pattern) are the main activity areas. Performs the following:

-Strategic information planning
- Formulation of solutions framework
- Design of solutions architecture

This job category is classified into the following specialty fields.

●Application Architecture

Analyzes problems in business and IT, and reconfigures them as functional requirements. Clarifies function attributes and specifications and designs application architecture (application component configuration, logical data configuration, and etc). Confirms that designed architecture comprises solution for problem in business and IT, and is available for follow-on development and installation.

●Integration Architecture

Analyzes demands of integration and cooperation between different or multiple systems from the point of total optimization, and reconfigures requirement of integration and cooperation. Clarifies specifications of integration and cooperation and designs integration architecture (framework structure and interoperability). Confirms that designed architecture satisfies the demand of integration and cooperation, and is available for follow-on development and installation.

●Infrastructure Architecture

Analyzes problems in business and IT, and reconfigures them as system infrastructure requirements. Clarifies system attributes and specifications, and designs infrastructure architecture (system management, security, network, platform and etc). Confirms that designed architecture comprises solution for problem in business and IT, and is available for follow-on development and installation.

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Key Performance Indicator
IT Architect

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Key Performance Indicator: IT Architect

Specialty Field	Application Architecture	Level 7

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[Business Contribution]

●Responsibilities

Leads other IT architects, as a person responsible for technology in phases of solution framework formulation and solution architecture design. Has experience and performance of achieving project success in IT architecture design of whole information system to satisfy required quality (functionality, reliability, portability, and etc.) three times or more (At least one project must meet the complexity and size of Level 7, and others can be of the Level 6 or above).

●Complexity

Has experience and performance of achieving success in IT Architecture design with three or more of following complexity criteria ("Architecture with globally accepted nature of architecture" is required)

□Architecture with globally accepted nature of architecture
□High-level design needed for functional requirements
□High-level design needed for reliability requirements
□High-level design needed for usability requirements
□High-level design needed for efficiency requirements
□High-level design needed for maintenance requirements
□High-level design needed for portability requirements
□Optimal design is needed to adjust complicated interdependency among above requirements
□System structure is complicated by many components as well as many interfaces among components
□Large volume of data or traffic, and advanced data control and management techniques
□Advanced techniques which have little track record to use, applied to solve complicated requirements that are not solved with general techniques

●Size

Has experience and performance of proposing and achieving successful projects with either one of the following size.

□Project with 500 persons or more during peak periods
□Project with 50 or more but less than 500 persons during peak periods, and with five or more of above complexity criteria

[Professional Contribution]

-Holds the high specialty of the following main themes in IT architecture design sufficient to guide others and leads the industry.

□Required modeling □Architecture design □Usability □Functionality □Data □Standardization and reutilization □Architecture assessment

-Has performance in five or more items of following expertise succession for IT architecture design

□Activities in professional community such as academic society and committee □Publication of a book □Publication of a paper outside the company
□Publication of a paper within the company □Instructor outside the company □Instructor within the company □Filing of a patent application

-Develops subordinates (by mentoring, coaching, and etc.)

Key Performance Indicator: IT Architect

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Specialty Field	Application Architecture	Level 6

[Business Contribution]

●Responsibilities

Leads other IT architects, as a person responsible for technology in phases of solution framework formulation and solution architecture design. Has experience and performance of achieving project success in IT architecture design of whole information system to satisfy required quality (functionality, reliability, portability, and etc.) three times or more (At least one project must meet the complexity and size of Level 6, and others can be of the Level 5 or above)

●Complexity

Has experience and performance of achieving success in IT Architecture design with two or more of following complexity criteria ("Architecture with globally accepted nature of architecture" is required)

□Architecture with globally accepted nature of architecture
□High-level design needed for functional requirements
□High-level design needed for reliability requirements
□High-level design needed for usability requirements
□High-level design needed for efficiency requirements
□High-level design needed for maintenance requirements
□High-level design needed for portability requirements
□Optimal design is needed to adjust complicated interdependency among above requirements
□System structure is complicated by many components as well as many interfaces among components
□Large volume of data or traffic, and advanced data control and management techniques
□Advanced techniques which have little track record to use, applied to solve complicated requirements that are not solved with general technique

●Size

Has experience and performance of achieving success in IT architecture design of projects with either one of the following size.

□Project with 50 or more but less than 500 persons during peak periods
□Project with 10 or more but less than 50 persons during peak periods, and with four or more of above complexity criteria

[Professional Contribution]

-Holds the high specialty of the following main themes in IT architecture design sufficient to guide others and contributes to the industry.

□Required modeling □Architecture design □Usability □Functionality □Data □Standardization and reutilization □Architecture assessment

-Has performance in four or more items of following expertise succession for IT architecture design

□Activities in professional community such as academic society and committee □Publication of a book □Publication of a paper outside the company
□Publication of a paper within the company □Instructor outside the company □Instructor within the company □Filing of a patent application

-Develops subordinates (by mentoring, coaching, and etc.)

Key Performance Indicator: IT Architect

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Specialty Field	Application Architecture	Level 5

[Business Contribution]

●Responsibilities

Leads architecture design team, as a person responsible for technology in phases of solution framework formulation and solution architecture design. Has experience and performance of achieving project success in IT architecture design of application area to satisfy required quality (functionality, reliability, and portability, etc.) three times or more (At least one project must meet the complexity and size of Level 5, and others can be of the Level 4 or above)

●Complexity

Has experience in achieving success in IT architecture design with two or more of the following complexity criteria.

□High-level design needed for functional requirements
□High-level design needed for reliability requirements
□High-level design needed for usability requirements
□High-level design needed for efficiency requirements
□High-level design needed for maintenance requirements
□High-level design needed for portability requirements
□Optimal design needed to adjust complicated interdependency among above requirements
□Complicated system structure by many components as well as many interfaces among components
□Large volume of traffic or data with advanced techniques of data control and management
□Advanced techniques with little track record to use, applied to solve requirements that are not solved with general techniques

●Size

Has experience and performance of achieving success in IT architecture design of projects with either one of the following size.

□Project with 10 or more but less than 50 persons during peak periods
□Project with less than 10 persons during peak periods, and with four or more of above complexity criteria

[Professional Contribution]

-Holds the high specialty of the following main themes in IT architecture design sufficient to guide others and contributes to the company.

□Required modeling □Architecture design □Usability □Functionality □Data □Standardization and reutilization □Architecture assessment

-Has performance in three or more items of following expertise succession for IT architecture design

□Activities in professional community such as academic society and committee □Publication of a book □Publication of a paper outside the company
□Publication of a paper within the company □Instructor outside the company □Instructor within the company □Filing of a patent application

-Develops subordinates (by mentoring, coaching, and etc.)

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Key Performance Indicator: IT Architect

Specialty Field	Application Architecture	Level 4

[Business Contribution]

●Responsibilities

Has experience and performance of achieving project success in IT architecture design of application area to satisfy required quality (functionality, reliability, and portability, etc.) two times or more (Projects must meet the complexity and size of Level 4), as a person responsible for technology in phases of solution framework formulation and solution architecture design.

●Complexity

Has experience and performance of achieving success in IT architecture design with two or more of the following complexity criteria.

□High-level design needed for functional requirements
□High-level design needed for reliability requirements
□High-level design needed for usability requirements
□High-level design needed for efficiency requirements
□High-level design needed for maintenance requirements
□High-level design needed for portability requirements
□Optimal design is needed to adjust complicated interdependency among above requirements
□System structure is complicated by many components as well as many interfaces among components
□Large volume of traffic or data with advanced techniques of data control and management
□Advanced techniques with little track record to use, applied to solve requirements that are not solved with general techniques

●Size

Has experience and performance of achieving success in IT architecture design of projects with either one of the following size.

□Project with less than 10 persons during peak periods

[Professional Contribution]

-Holds the high specialty of the following main themes in IT architecture design sufficient to guide subordinates.

□Required modeling □Architecture design □Usability □Functionality □Data □Standardization and reutilization □Architecture assessment

-Has performance in one or more items of following expertise succession for IT architecture design

□Activities in professional community such as academic society and committee □Publication of a book □Publication of a paper outside the company
□Publication of a paper within the company □Instructor outside the company □Instructor within the company □Filing of a patent application

-Develops subordinates (by mentoring, coaching, and etc.)

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Key Performance Indicator: IT Architect

Specialty Field	Integration Architecture	Level 7

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[Business Contribution]

●Responsibilities

Leads other IT architects, as a person responsible for technology in phases of solution framework formulation and solution architecture design. Has experience and performance of achieving project success in IT architecture design of whole information system to satisfy required quality (functionality, reliability, portability, and etc.) three times or more (At least one project must meet the complexity and size of Level 7, and others can be of the Level 6 or above).

●Complexity

Has experience and performance of achieving success in IT Architecture design with three or more of following complexity criteria ("Architecture with globally accepted nature of architecture" is required)

□Architecture with globally accepted nature of architecture
□High-level design needed for functional requirements
□High-level design needed for reliability requirements
□High-level design needed for usability requirements
□High-level design needed for efficiency requirements
□High-level design needed for maintenance requirements
□High-level design needed for portability requirements
□Optimal design is needed to adjust complicated interdependency among above requirements
□System structure is complicated by many components as well as many interfaces among components
□Large volume of traffic or data with advanced techniques of data control and management
□Advanced techniques with little track record to use, applied to solve requirements that are not solved with general techniques

●Size

Has experience and performance of proposing and achieving successful projects with either one of the following size.

□Project with 500 persons or more during peak periods
□Project with 50 or more but less than 500 persons during peak periods, and with five or more of above complexity criteria.

[Professional Contribution]

-Holds the high specialty of the following main themes in IT architecture design sufficient to guide others and leads the industry.

□Required modeling □Architecture design □Framework □Interoperability □Standardization and reutilization □Architecture assessment

-Has performance in five or more items of following expertise succession for IT architecture design

□Activities in professional community such as academic society and committee □Publication of a book □Publication of a paper outside the company
□Publication of a paper within the company □Instructor outside the company □Instructor within the company □Filing of a patent application

-Develops subordinates (by mentoring, coaching, and etc.)

Key Performance Indicator: IT Architect

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Specialty Field	Integration Architecture	Level 6

[Business Contribution]

●Responsibilities

Leads other IT architects, as a person responsible for technology in phases of solution framework formulation and solution architecture design. Has experience and performance of achieving project success in IT architecture design of whole information system to satisfy required quality (functionality, reliability, portability, and etc.) three times or more (At least one project must meet the complexity and size of Level 6, and others can be of the Level 5 or above).

●Complexity

Has experience and performance of achieving success in IT Architecture design with two or more of following complexity criteria

□High-level design needed for functional requirements
□High-level design needed for reliability requirements
□High-level design needed for usability requirements
□High-level design needed for efficiency requirements
□High-level design needed for maintenance requirements
□High-level design needed for portability requirements
□Optimal design is needed to adjust complicated interdependency among above requirements
□System structure is complicated by many components as well as many interfaces among components
□Large volume of traffic or data with advanced techniques of data control and management
□Advanced techniques with little track record to use, applied to solve requirements that are not solved with general techniques

●Size

Has experience and performance of proposing and achieving successful projects with either one of the following size.

□Project with 50 or more but less than 500 persons or more during peak periods
□Project with 10 or more but less than 50 persons during peak periods, and with four or more of above complexity

[Professional Contribution]

-Holds the high specialty of the following main themes in IT architecture design sufficient to guide others and contributes to the industry.

□Required modeling □Architecture design □Framework □Interoperability □Standardization and reutilization □Architecture assessment

-Has performance in four or more items of following expertise succession for IT architecture design

□Activities in professional community such as academic society and committee □Publication of a book □Publication of a paper outside the company
□Publication of a paper within the company □Instructor outside the company □Instructor within the company □Filing of a patent application

-Develops subordinates (by mentoring, coaching and etc.)

Key Performance Indicator: IT Architect

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Specialty Field	Integration Architecture	Level 5

[Business Contribution]

●Responsibilities

Leads architecture design team, as a person responsible for technology in phases of solution framework formulation and solution architecture design. Has experience and performance of achieving project success in IT architecture design of integration area to satisfy required quality (functionality, reliability, and portability, etc.)three times or more (At least one project must meet the complexity and size of Level 5, and others can be of the Level 4 or above)

●Complexity

Has experience and performance of achieving success in IT Architecture design with two or more of following complexity criteria

□High-level design needed for functional requirements
□High-level design needed for reliability requirements
□High-level design needed for usability requirements
□High-level design needed for efficiency requirements
□High-level design needed for maintenance requirements
□High-level design needed for portability requirements
□Optimal design is needed to adjust complicated interdependency among above requirements
□System structure is complicated by many components as well as many interfaces among components
□Large volume of traffic or data with advanced techniques of data control and management
□Advanced techniques with little track record to use, applied to solve requirements that are not solved with general techniques

●Size

Has experience and performance of achieving success in IT architecture design of projects with either one of the following size.

□Project with 10 or more but less than 50 persons during peak periods
□Project with less than 10 persons during peak periods, and with four or more of above complexity criteria

[Professional Contribution]

-Holds the high specialty of the following main themes in IT architecture design sufficient to guide others and contributes to the company.

□Required modeling □Architecture design □Framework □Interoperability □Standardization and reutilization □Architecture assessment

-Has performance in three or more items of following expertise succession for IT architecture design

□Activities in professional community such as academic society and committee □Publication of a book □Publication of a paper outside the company
□Publication of a paper within the company □Instructor outside the company □Instructor within the company □Filing of a patent application

-Develops subordinates (by mentoring, coaching and etc.)

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Key Performance Indicator: IT Architect

Specialty Field	Integration Architecture	Level 4

[Business Contribution]

●Responsibilities

Has experience and performance of achieving project success in IT architecture design of integration area to satisfy required quality (functionality, reliability, and portability, etc.) two times or more (projects must meet the complexity and size of Level 4), as a person responsible for technology in phases of solution framework formulation and solution architecture design.

●Complexity

Has experience and performance of achieving success in IT Architecture design with two or more of following complexity criteria

□High-level design needed for functional requirements
□High-level design needed for reliability requirements
□High-level design needed for usability requirements
□High-level design needed for efficiency requirements
□High-level design needed for maintenance requirements
□High-level design needed for portability requirements
□Optimal design is needed to adjust complicated interdependency among above requirements
□System structure is complicated by many components as well as many interfaces among components
□Large volume of traffic or data with advanced techniques of data control and management
□Advanced techniques with little track record to use, applied to solve requirements that are not solved with general techniques

●Size

Has experience and performance of achieving success in IT architecture design of projects with either one of the following size.

□Project with less than 10 persons during peak periods

[Professional Contribution]

-Holds the high specialty of the following main themes in IT architecture design sufficient to guide subordinates.

□Required modeling □Architecture design □Framework □Interoperability □Standardization and reutilization □Architecture assessment

-Has performance in one or more items of following expertise succession for IT architecture design

□Activities in professional community such as academic society and committee □Publication of a book □Publication of a paper outside the company
□Publication of a paper within the company □Instructor outside the company □Instructor within the company □Filing of a patent application

-Develops subordinates (by mentoring, coaching, and etc.)

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Key Performance Indicator: IT Architect

Specialty Field	Infrastructure Architecture	Level 7

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[Business Contribution]

●Responsibilities

Leads other IT architects, as a person responsible for technology in phases of solution framework formulation and solution architecture design. Has experience and performance of achieving project success in IT architecture design of whole information system to satisfy required quality (functionality, reliability, portability, and etc.) three times or more (At least one project must meet the complexity and size of Level 7, and others can be of the Level 6 or above).

●Complexity

Has experience and performance of achieving success in IT Architecture design with three or more of following complexity criteria ("Architecture with globally accepted nature of architecture" is required)

□Architecture with globally accepted nature of architecture
□High-level design needed for functional requirements
□High-level design needed for reliability requirements
□High-level design needed for usability requirements
□High-level design needed for efficiency requirements
□High-level design needed for maintenance requirements
□High-level design needed for portability requirements
□Optimal design is needed to adjust complicated interdependency among above requirements
□System structure is complicated by many components as well as many interfaces among components
□Large volume of traffic or data with advanced techniques of data control and management
□Advanced techniques with little track record to use, applied to solve requirements that are not solved with general techniques

●Size

Has experience and performance of achieving success in IT architecture design of projects with either one of the following size.

□Project with 500 persons or more during peak periods
□Project with 50 or more but less than 500 persons during peak periods, and with five or more of above complexity criteria.

[Professional Contribution]

-Holds the high specialty of the following main themes in IT architecture design sufficient to guide others and leads the industry.

□Required modeling □Architecture design □System management □Security □Network
□Platform □Standardization and reutilization □Architecture assessment

-Has performance in five or more items of following expertise succession for IT architecture design

□Activities in professional community such as academic society and committee □Publication of a book □Publication of a paper outside the company
□Publication of a paper within the company □Instructor outside the company □Instructor within the company □Filing of a patent application

-Develops subordinates (by mentoring, coaching, and etc.)

Key Performance Indicator: IT Architect

Specialty Field	Infrastructure Architecture	Level 6

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[Business Contribution]

●Responsibilities

Leads other IT architects, as a person responsible for technology in phases of solution framework formulation and solution architecture design. Has experience and performance of achieving project success in IT architecture design of whole information system to satisfy required quality (functionality, reliability, portability, and etc.) three times or more (At least one project must meet the complexity and size of Level 6, and others can be of the Level 5 or above).

●Complexity

Has experience and performance of achieving success in IT Architecture design with two or more of following complexity criteria

□High-level design needed for functional requirements
□High-level design needed for reliability requirements
□High-level design needed for usability requirements
□High-level design needed for efficiency requirements
□High-level design needed for maintenance requirements
□High-level design needed for portability requirements
□Optimal design is needed to adjust complicated interdependency among above requirements
□System structure is complicated by many components as well as many interfaces among components
□Large volume of traffic or data with advanced techniques of data control and management
□Advanced techniques with little track record to use, applied to solve requirements that are not solved with general techniques

●Size

Has experience and performance of achieving success in IT architecture design of projects with either one of the following size.

□Project with 50 or more but less than 500 persons or more during peak periods
□Project with 10 or more but less than 50 persons during peak periods, and with four or more of above complexity

[Professional Contribution]

-Holds the high specialty of the following main themes in IT architecture design sufficient to guide others and contributes to the industry.

□Required modeling □Architecture design □System management □Security □Network
□Platform □Standardization and reutilization □Architecture assessment

-Has performance in four or more items of following expertise succession for IT architecture design

□Activities in professional community such as academic society and committee □Publication of a book □Publication of a paper outside the company
□Publication of a paper within the company □Instructor outside the company □Instructor within the company □Filing of a patent application

-Develops subordinates (by mentoring, coaching and etc.)

Key Performance Indicator: IT Architect

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Specialty Field	Infrastructure Architecture	Level 5

[Business Contribution]

●Responsibilities

Leads architecture design team, as a person responsible for technology in phases of solution framework formulation and solution architecture design. Has experience and performance of achieving project success in IT architecture design of infrastructure area to satisfy required quality (functionality, reliability, and portability, etc.)three times or more (At least one project must meet the complexity and size of Level 5, and others can be of the Level 4 or above)

●Complexity

Has experience and performance of achieving success in IT Architecture design with two or more of following complexity criteria

□High-level design needed for functional requirements
□High-level design needed for reliability requirements
□High-level design needed for usability requirements
□High-level design needed for efficiency requirements
□High-level design needed for maintenance requirements
□High-level design needed for portability requirements
□Optimal design is needed to adjust complicated interdependency among above requirements
□System structure is complicated by many components as well as many interfaces among components
□Large volume of data or traffic, and advanced data control and management techniques
□Advanced techniques which have little track record to use, applied to solve complicated requirements that are not solved with general techniques.

●Size

Has experience and performance of achieving success in IT architecture design of projects with either one of the following size.

□Project with 10 or more but less than 50 persons during peak periods
□Project with less than 10 persons during peak periods, and with four or more of above complexity criteria

[Professional Contribution]

-Holds the high specialty of the following major themes in IT architecture design sufficient to guide others and contributes to company.

□Required modeling □Architecture design □Systems management □Security □Network □Platform □Standardization and reutilization □Architecture assessment

-Has recognized accomplishments in three items or more of following expertise succession for IT architecture design.

□Activities in professional community such as academic society and committee □Publication of a book □Publication of a paper outside the company
□Publication of a paper within the company □Invited to speak outside the company □Instructor within the company □Filing of a patent application

-Has accomplishments in developing subordinates (by mentoring, coaching, etc.)

Key Performance Indicator: IT Architect

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Specialty Field	Infrastructure Architecture	Level 4

[Business Contribution]

●Responsibilities

Has experience and performance of achieving project success in IT architecture design of infrastructure area to satisfy required quality (functionality, reliability, and portability, etc.) two times or more (projects must meet the complexity and size of Level 4), as a person responsible for technology in phases of solution framework formulation and solution architecture design.

●Complexity

Has experience and performance of achieving success in IT Architecture design with two or more of following complexity criteria

□High-level design needed for functional requirements
□High-level design needed for reliability requirements
□High-level design needed for usability requirements
□High-level design needed for efficiency requirements
□High-level design needed for maintenance requirements
□High-level design needed for portability requirements
□Optimal design is needed to adjust complicated interdependency among above requirements
□System structure is complicated by many components as well as many interfaces among components
□Large volume of data or traffic, and advanced data control and management techniques
□Advanced techniques which have little track record to use, applied to solve complicated requirements that are not solved with general technique

●Size

Has experience and performance of achieving success in IT architecture design of projects with either one of the following size.

□Project with less than 10 persons during peak periods

[Professional Contribution]

-Holds the high specialty of the following major themes in IT architecture design sufficient to guide subordinates.

□Required modeling □Architecture design □Systems management □Security □Network □Platform □Standardization and reutilization □Architecture assessment

-Has recognized accomplishments in one or more items of following expertise succession for IT architecture design.

□Activities in professional community such as academic society and committee □Publication of a book □Publication of a paper outside the company
□Publication of a paper within the company □Invited to speak outside the company □Instructor within the company □Filing of a patent application

-Develops subordinates (by mentoring, coaching and etc.)

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