Outline of Job Career and Key Performance Indicator

(4) *IT Architect*

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Outline of Job Career

IT Architect

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Outline of IT Architect

Job career	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 Career

Analyzes problem of business and IT, and re-composes solution as requirements of information systematization. Designs IT architecture with quality (consistency, etc.) of whole information systems in order to realize customer business strategies by utilizing hardware and software related skills (application related skills and methodology). Designed architecture confirms that follow-on development and installation, and confirms solution construction on problems. In addition, clarifies that information system satisfies appropriate standard in order to construct solution, and evaluates effects from technical risks against feasibility in advance.

In the IT investment phases, Strategic informatization planning (Clarification and analys of problems (Business/IT) and Solution design (structure/pattern)) are the main activity areas. Performs the following:

- Strategic informatization planning
  - •Formulation of solution framework
  - • Design of solution architecture

This job career category is classified into the following specialty fields.

- **Application architecture**
  Performs re-composition of requirements of function, and analyzes problem of business and IT. Designs application architecture (application component configuration, logical data configuration, etc) and clarifies specifications and function attribution. Confirms that follow-on development and installation are possible, and confirms that designed architecture constructs solution, against problems on business and IT.
- **Integration architecture**
  Performs re-composition of unification and requirements of collaboration, and analyzes unification and requirements of collaboration between multiple or different information systems from the overall perspective. Designs integration architecture (framework configuration, and interoperability) and clarifies unification and specifications of collaboration. Confirms that follow-on development and installation are possible, and confirms that designed architecture satisfies unification and requirements of collaboration.
- **Infrastructure architecture**
  Performs re-composition of system base requirement, and analyzes problems of business, and IT. Designs infrastructure architecture (system management, security, network, platform, etc) and clarifies specifications, and system attribution. Confirms that follow-on development and installation are possible, and confirms that designed architecture configures solution, against problems on business and IT.

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Key Performance Indicator

IT Architect

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Key Performance Indicator : IT Architect

Specialty Field	Application architecture	Level 7

[Contribution to business]

●Responsibilities

In phases of establishment of solution framework and design of solution architecture, acts as a responsible person of technology by leading other IT architects. Has experience in achieving successful results in IT architecture design of the whole information system that satisfies required quality (functionality, reliability, and portability, etc.) three times or more (at least one experience must meet complexity and size of Level 7 or equivalent, and others can be of Level 6).

●Complexity

Has experience in achieving successful results in the completion of IT architecture design that meets three or more of the following complexity criteria ("Globally accepted nature of architecture" is required for this level.).

□Globally accepted nature of architecture □Advanced design needed for high-level functional requirements
□Advanced design needed for high-level reliability requirements □Advanced design needed for high-level usability requirements
□Advanced design needed for high-level efficiency requirements □Advanced design needed for high-level maintenance requirements
□Advanced design needed for high-level porting requirements □Optimal design needed to accommodate complicated interdependency among above requirements
□Complex System structure with many components as well as many interfaces among components
□Advanced data control and management techniques needed to accommodate very large volume of data or traffic
□Application of leading-edge and not widely used technology needed to solve complex requirements

●Size

Has experience in achieving successful results in the completion of IT architecture design in the project that meets either one of the following size.

□Project with 500 persons or more during peak periods.
□In case of the project that meets five or more complexity criteria (above), from 50 but less than 500 persons during peak periods.

[Contribution to professional society]

-Holds the high specialty of the following major themes of this Specialty Field sufficient enough to guide others and leads the industry.

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

-Has recognized accomplishments five items or more in the area of technology succession of IT architecture design.

□Professional community activities 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.)

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Key Performance Indicator : IT Architect

Specialty Field	Application architecture	Level 6

[Contribution to business]

●Responsibilities

In phases of establishment of solution framework and design of solution architecture, acts as a responsible person of technology by leading other IT architects. Has experience in achieving successful results in IT architecture design of the whole information system that satisfies required quality (functionality, reliability, and portability, etc.) three times or more (at least one experience must meet complexity and size of Level 6 or equivalent, and others can be of Level 5).

●Complexity

Has experience in achieving successful results in the completion of IT architecture design that meets 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 porting requirements
□Optimal design is needed to accommodate complicated interdependency among above requirements
□System structure is complex with many components as well as many interfaces among components
□Very large volume of data or traffic, and advanced data control and management techniques are required to accommodate
□Leading-edge and not widely used technology is applied to solve complex requirements

●Size

Has experience in achieving successful results in the completion of IT architecture design in the project that meets either one of the following size.

□Project from 50 but less than 500 persons during peak periods.
□In case of the project that meets four or more complexity criteria (above), from 10 but less than 50 persons during peak periods.

[Contribution to professional society]

-Holds the high specialty of the following major themes of this Specialty Field sufficient enough to guide others and contributes to the industry.

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

-Has recognized accomplishments four items or more in the area of technology succession of IT architecture design.

□Professional community activities such as academic society and committee □Publication of a book □Publication of a paper outside the company
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-Has accomplishments in developing subordinates (by mentoring, coaching, etc.)

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Key Performance Indicator : IT Architect

Specialty Field	Application architecture	Level 5

[Contribution to business]

●Responsibilities

In phases of establishment of solution framework and design of solution architecture, acts as a responsible person of technology by leading IT architects. Has experience in achieving successful results in IT architecture design of application area that satisfies required quality (functionality, reliability, and portability, etc.) three times or more (at least one experience must meet complexity and size of Level 5 or equivalent, and others can be of Level 4).

●Complexity

Has experience in achieving successful results in the completion of IT architecture design that meets 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 porting requirements
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□Leading-edge and not widely used technology is applied to solve complex requirements

●Size

Has experience in achieving successful results in the completion of IT architecture design in the project that meets either one of the following size.

□Project from 10 but less than 50 persons during peak periods.
□In case of the project that meets four or more complexity criteria (above), with less than 10 persons during peak periods.

[Contribution to professional society]

-Holds the high specialty of the following major themes of this Specialty Field sufficient enough to guide others and contributes to company.

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

-Has recognized accomplishments three items or more in the area of technology succession of IT architecture design.

□Professional community activities 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.)

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Key Performance Indicator : IT Architect

Specialty Field	Application architecture	Level 4

[Contribution to business]

●Responsibilities

In phases of establishment of solution framework and design of solution architecture, acts as a responsible person of technology. Has experience in achieving successful results in IT architecture design of application area that satisfies required quality (functionality, reliability, and portability, etc.) two times or more (equivalent to complexity and size of Level 4).

●Complexity

Has experience in achieving successful results in the completion of IT architecture design that meets 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 porting requirements
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□Very large volume of data or traffic, and advanced data control and management techniques are required to accommodate
□Leading-edge and not widely used technology is applied to solve complex requirements

●Size

Has experience in achieving successful results in the completion of IT architecture design in the project that meets either one of the following size.

□Project with less than 10 persons during peak periods.

[Contribution to professional society]

-Holds the high specialty of the following major themes of this Specialty Field and guides subordinates.

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

-Has recognized accomplishments one item or more in the area of technology succession of IT architecture design.

□Professional community activities such as academic society and committee □Publication of a book □Publication of a paper outside the company
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Key Performance Indicator : IT Architect

Specialty Field	Integration architecture	Level 7

[Contribution to business]

●Responsibilities

In phases of establishment of solution framework and design of solution architecture, acts as a responsible person of technology by leading other IT architects. Has experience in achieving successful results in IT architecture design of the whole information system that satisfies required quality (functionality, reliability, and portability, etc.) three times or more (at least one experience must meet complexity and size of Level 7 or equivalent, and others can be of Level 6).

●Complexity

Has experience in achieving successful results in the completion of IT architecture design that meets three or more of the following complexity criteria ("Globally accepted nature of architecture" is required for this level.).

□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 porting requirements □Optimal design is needed to accommodate complicated interdependency among above requirements
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●Size

Has experience in achieving successful results in the completion of IT architecture design in the project that meets either one of the following size.
□Project with 500 persons or more during peak periods.
□In case of the project that meets five or more complexity criteria (above), from 50 but less than 500 persons during peak periods.

[Contribution to professional society]

-Holds the high specialty of the following major themes of this Specialty Field sufficient enough to guide others and leads the industry.
□Required modeling □Architecture design □Framework □Interoperability □Standardization and reutilization □Architecture assessment
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Key Performance Indicator : IT Architect

Specialty Field	Integration architecture	Level 6

[Contribution to business]

●Responsibilities

In phases of establishment of solution framework and design of solution architecture, acts as a responsible person of technology by leading other IT architects. Has experience in achieving successful results in IT architecture design of the whole information system that satisfies required quality (functionality, reliability, and portability, etc.) three times or more (at least one experience must meet complexity and size of Level 6 or equivalent, and others can be of Level 5).

●Complexity

Has experience in achieving successful results in the completion of IT architecture design that meets two or more of the following complexity criteria.

□High-level design needed for functional requirements □High-level design needed for reliability requirements
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Has experience in achieving successful results in the completion of IT architecture design in the project that meets either one of the following size.

□Project from 50 but less than 500 persons during peak periods.
□In case of the project that meets four or more complexity criteria (above), from 10 but less than 50 persons during peak periods.

[Contribution to professional society]

-Holds the high specialty of the following major themes of this Specialty Field sufficient enough to guide others and contributes to the industry.

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

-Has recognized accomplishments four items or more in the area of technology succession of IT architecture design.

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Key Performance Indicator : IT Architect

Specialty Field	Integration architecture	Level 5

[Contribution to business]

●Responsibilities

In phases of establishment of solution framework and design of solution architecture, acts as a responsible person of technology by leading IT architects. Has experience in achieving successful results in IT architecture design of integration area that satisfies required quality (functionality, reliability, and portability, etc.) three times or more (at least one experience must meet complexity and size of Level 5 or equivalent, and others can be of Level 4).

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Key Performance Indicator : IT Architect

Specialty Field	Integration architecture	Level 4

[Contribution to business]

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□Project with less than 10 persons during peak periods.

[Contribution to professional society]

-Holds the high specialty of the following major themes of this Specialty Field and guides subordinates.

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

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Key Performance Indicator : IT Architect

Specialty Field	Infrastructure architecture	Level 7

[Contribution to business]

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[Contribution to professional society]

-Holds the high specialty of the following major themes of this Specialty Field sufficient enough to guide others and leads the industry.
□Required modeling □Architecture design □Systems management □Security □Network □Platform □Standardization and reutilization □Architecture assessment
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□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.)

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Key Performance Indicator : IT Architect

Specialty Field	Infrastructure architecture	Level 6

[Contribution to business]

●Responsibilities

In phases of establishment of solution framework and design of solution architecture, acts as a responsible person of technology by leading other IT architects. Has experience in achieving successful results in IT architecture design of the whole information system that satisfies required quality (functionality, reliability, and portability, etc.) three times or more (at least one experience must meet complexity and size of Level 6 or equivalent, and others can be of Level 5).

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□High-level design needed for functional requirements □High-level design needed for reliability requirements
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□Leading-edge and not widely used technology is applied to solve complex requirements

●Size

Has experience in achieving successful results in the completion of IT architecture design in the project that meets either one of the following size.

□Project from 50 but less than 500 persons during peak periods.
□In case of the project that meets four or more complexity criteria (above), from 10 but less than 50 persons during peak periods.

[Contribution to professional society]

-Holds the high specialty of the following major themes of this Specialty Field sufficient enough to guide others and contributes to the industry.

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

-Has recognized accomplishments four items or more in the area of technology succession of IT architecture design.

□Professional community activities such as academic society and committee □Publication of a book □Publication of a paper outside the company
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-Has accomplishments in developing subordinates (by mentoring, coaching, etc.)

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Key Performance Indicator : IT Architect

Specialty Field	Infrastructure architecture	Level 5

[Contribution to business]

●Responsibilities

In phases of establishment of solution framework and design of solution architecture, acts as a responsible person of technology by leading IT architects. Has experience in achieving successful results in IT architecture design of infrastructure area that satisfies required quality (functionality, reliability, and portability, etc.) three times or more (at least one experience must meet complexity and size of Level 5 or equivalent, and others can be of Level 4).

●Complexity

Has experience in achieving successful results in the completion of IT architecture design that meets 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
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●Size

Has experience in achieving successful results in the completion of IT architecture design in the project that meets either one of the following size.

□Project from 10 but less than 50 persons during peak periods.
□In case of the project that meets four or more complexity criteria (above), with less than 10 persons during peak periods.

[Contribution to professional society]

-Holds the high specialty of the following major themes of this Specialty Field sufficient enough to guide others and contributes to company.

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

-Has recognized accomplishments three items or more in the area of technology succession of IT architecture design.

□Professional community activities 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.)

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Key Performance Indicator : IT Architect

Specialty Field	Infrastructure architecture	Level 4

[Contribution to business]

●Responsibilities

In phases of establishment of solution framework and design of solution architecture, acts as a responsible person of technology. Has experience in achieving successful results in IT architecture design of infrastructure area that satisfies required quality (functionality, reliability, and portability, etc.) two times or more (equivalent to complexity and size of Level 4).

●Complexity

Has experience in achieving successful results in the completion of IT architecture design that meets 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
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□Leading-edge and not widely used technology is applied to solve complex requirements

●Size

Has experience in achieving successful results in the completion of IT architecture design in the project that meets either one of the following size.

□Project with less than 10 persons during peak periods.

[Contribution to professional society]

-Holds the high specialty of the following major themes of this Specialty Field and guides subordinates.

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

-Has recognized accomplishments one item or more in the area of technology succession of IT architecture design.

□Professional community activities such as academic society and committee □Publication of a book □Publication of a paper outside the company
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