

Outline of Job Career and Key Performance Indicator
(4) IT Architect

Outline of Job Category

IT Architect

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.

Key Performance Indicator IT Architect

Key Performance Indicator: IT Architect

Specialty Field	Application Architecture	Level 7
<p>[Business Contribution]</p> <p>●Responsibilities</p> <p>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).</p> <p>●Complexity</p> <p>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)</p> <ul style="list-style-type: none"> <input type="checkbox"/>Architecture with globally accepted nature of architecture <input type="checkbox"/>High-level design needed for reliability requirements <input type="checkbox"/>High-level design needed for efficiency requirements <input type="checkbox"/>High-level design needed for portability requirements <input type="checkbox"/>System structure is complicated by many components as well as many interfaces among components <input type="checkbox"/>Large volume of data or traffic, and advanced data control and management techniques <input type="checkbox"/>Advanced techniques which have little track record to use, applied to solve complicated requirements that are not solved with general techniques <input type="checkbox"/>High-level design needed for functional requirements <input type="checkbox"/>High-level design needed for usability requirements <input type="checkbox"/>High-level design needed for maintenance requirements <input type="checkbox"/>Optimal design is needed to adjust complicated interdependency among above requirements <p>●Size</p> <p>Has experience and performance of proposing and achieving successful projects with either one of the following size.</p> <ul style="list-style-type: none"> <input type="checkbox"/>Project with 500 persons or more during peak periods <input type="checkbox"/>Project with 50 or more but less than 500 persons during peak periods, and with five or more of above complexity criteria <p>[Professional Contribution]</p> <p>-Holds the high specialty of the following main themes in IT architecture design sufficient to guide others and leads the industry.</p> <ul style="list-style-type: none"> <input type="checkbox"/>Required modeling <input type="checkbox"/>Architecture design <input type="checkbox"/>Usability <input type="checkbox"/>Functionality <input type="checkbox"/>Data <input type="checkbox"/>Standardization and reutilization <input type="checkbox"/>Architecture assessment <p>-Has performance in five or more items of following expertise succession for IT architecture design</p> <ul style="list-style-type: none"> <input type="checkbox"/>Activities in professional community such as academic society and committee <input type="checkbox"/>Publication of a book <input type="checkbox"/>Publication of a paper outside the company <input type="checkbox"/>Publication of a paper within the company <input type="checkbox"/>Instructor outside the company <input type="checkbox"/>Instructor within the company <input type="checkbox"/>Filing of a patent application <p>-Develops subordinates (by mentoring, coaching, and etc.)</p>		

Key Performance Indicator: IT Architect

Specialty Field	Application Architecture	Level 6
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Specialty Field	Application Architecture	Level 5
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Specialty Field	Application Architecture	Level 4
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Key Performance Indicator: IT Architect

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Key Performance Indicator: IT Architect

Specialty Field	Infrastructure architecture	Level 4
<p>[Business Contribution]</p> <p>●Responsibilities</p> <p>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.</p> <p>●Complexity</p> <p>Has experience and performance of achieving success in IT Architecture design with two or more of following complexity criteria</p> <ul style="list-style-type: none"> <input type="checkbox"/> High-level design needed for functional requirements <input type="checkbox"/> High-level design needed for usability requirements <input type="checkbox"/> High-level design needed for maintenance requirements <input type="checkbox"/> Optimal design is needed to adjust complicated interdependency among above requirements <input type="checkbox"/> System structure is complicated by many components as well as many interfaces among components <input type="checkbox"/> Large volume of data or traffic, and advanced data control and management techniques <input type="checkbox"/> Advanced techniques which have little track record to use, applied to solve complicated requirements that are not solved with general technique <input type="checkbox"/> High-level design needed for reliability requirements <input type="checkbox"/> High-level design needed for efficiency requirements <input type="checkbox"/> High-level design needed for portability requirements <p>●Size</p> <p>Has experience and performance of achieving success in IT architecture design of projects with either one of the following size.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Project with less than 10 persons during peak periods <p>[Professional Contribution]</p> <p>-Holds the high specialty of the following major themes in IT architecture design sufficient to guide subordinates.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Required modeling <input type="checkbox"/> Architecture design <input type="checkbox"/> Systems management <input type="checkbox"/> Security <input type="checkbox"/> Network <input type="checkbox"/> Platform <input type="checkbox"/> Standardization and reutilization <input type="checkbox"/> Architecture assessment <p>-Has recognized accomplishments in one or more items of following expertise succession for IT architecture design.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Activities in professional community such as academic society and committee <input type="checkbox"/> Publication of a book <input type="checkbox"/> Publication of a paper outside the company <input type="checkbox"/> Publication of a paper within the company <input type="checkbox"/> Invited to speak outside the company <input type="checkbox"/> Instructor within the company <input type="checkbox"/> Filing of a patent application <p>-Develops subordinates (by mentoring, coaching and etc.)</p>		