

Skill Area and Skill Proficiency

(7) Application Specialist

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Skill Area

Job career: Application Specialist

Skill Area of Application Specialist

	Specialty Field	Skill Item
Career common skill item	All Specialty Field	<ul style="list-style-type: none"> ●Analytical of Business applications Analytical of Business application requirements, Analytical of technical requirements, Industry knowledge, Formulation of systematization strategies, Requirements definition of platform, Verification of system values, Informatization and management, General-purpose application contents, Latest general-purpose application trends, etc ●Technology System platform technologies, Latest technology trends, Latest business application package trends, Computer science fundamentals, Computer systems, System development environment, Understanding and utilization of network technologies, Database technology, Database design, Relationship between transaction processing and synchronization points of databases, Internet technologies, etc ●Design Requirements definition, Design of industry package development environments, Development environment design, Design of database, middleware and distributed computing, Design of industry packages, Understanding and utilization of modeling techniques, etc ●Software Engineering Design techniques, Development techniques, Utilization of development support tools, Programming techniques, Programming languages, Test techniques, Reutilization techniques, Security and privacy, Implementation and inspection of security systems, External design, Internal design, Object-oriented development, Program design, Utilization of verification techniques, Standardization, System audit, Technical verification techniques, etc ●Utilization of consulting techniques Selection and adaptation of consulting techniques, Understanding and utilization of analytical tools and models ●Knowledge management and utilization Management and utilization of intellectual properties ●Project Management Project Integration Management, Project Scope Management, Project Time Management, Project Cost Management, Project Quality Management, Project Human Resource Management, Project Communications Management, Project Risk Management, Project Procurement Management ●Leadership Leadership ●Communication 2Way communication, Distribution of information, Organization and analytical and retrieval of information ●Negotiation Negotiation
	Application systems	<ul style="list-style-type: none"> ●Construction of General-Purpose Application Systems (For Human Resources, Accounting, Administration Businesses, etc.) Application environments, General-purpose application contents, Latest general-purpose application trends, Design of general-purpose application, etc ●Construction of Specific Industry Application systems Design of industry application, Business application packages contents, etc
Specialty Field specific skill item	Application packages	<ul style="list-style-type: none"> ●Construction of Application systems Utilizing Business Application Package Latest business application package trends, Design of business application packages, Selection of running business application package environment, Installation of business application packages, Performance tuning of business application packages, Business application package specific development techniques, Business application package specific development support tools, Business application package programming, etc

Skill Proficiency/Knowledge Items

Job career: Application Specialist

Specialty Field: Application systems

Specialty Field:
Application systems

Skill Proficiency/Knowledge Items of Application Specialist

Skill Item and Knowledge Items	Skill Proficiency	
<p>[Career common skill item]</p> <p>●Analytical of Business applications</p> <p>[Knowledge Items]</p> <ul style="list-style-type: none"> -Analytical of Business application requirements -Analytical of technical requirements -Industry knowledge -Formulation of systematization strategies -Requirements definition of platform -Verification of system values -Informatization and management -General-purpose application contents -Latest general-purpose application trends 	Level 7	
	Level 6	Able to carry out analytical of complex and advanced Business application and technical requirements, etc. based on long term perspective on industry and technical trends, as a responsible person of development team in the application development project with 50 persons or more during peak periods.
	Level 5	Able to carry out analytical of Business application and technical requirements, etc. as a responsible person of development team in the application development project from 10 but less than 50 persons during peak periods.
	Level 4	Able to carry out analytical of Business application and technical requirements, etc. as a leader of development team in the application development project with 3 persons or more during peak periods.
	Level 3	Able to carry out analytical of Business application and technical requirements in the assigned area, as a member of development team of the application development project.

Specialty Field: Application systems	Skill Proficiency/Knowledge Items of Application Specialist	
Skill Item and Knowledge Items		Skill Proficiency
<p>[Career common skill item]</p> <p>●Technology</p> <p>[Knowledge Items]</p> <ul style="list-style-type: none"> -System platform technologies -Latest technology trends -Latest Application packages trends -Computer science fundamentals -Computer systems -System development environment -Understanding and utilization of network technologies -Database technologies -Database design -Relationship between transaction processing and synchronization points of databases -Internet technologies -Programming languages, Markup languages -Middleware technologies -Basic functions of relational database management systems -Latest IT market trends -System management technologies -Platform technologies -Product knowledge (platforms) -Techniques for system management -Selection of database management systems (DBMS) -Installation of database management systems (DBMS) -Important technology in database development -Peripheral technology of databases -Database related technology trends -Network systems technology trends -Knowledge of network products -Network standards -Technologies for implementation of network systems -Techniques for server deployment -Application execution methods -Server technologies -Load sharing and availability -Distributed computing development environments -User interface technologies -Application security -Understanding and utilization of security technology -Security technology trends -Implementation and inspection of security systems -Data modeling -Database operation design -Understanding and utilization of computer system architectures and fundamental technologies 	Level 7	
	Level 6	Able to lead the whole phases of development, by practicing solving of highly complex technical problems, as a responsible person of development team in the application development project with 50 persons or more during peak periods.
	Level 5	Able to perform the whole phases of development, by practicing solving of highly complex technical problems, as a responsible person of development team in the application development project from 10 but less than 50 persons during peak periods.
	Level 4	Able to perform the whole phases of development, by practicing solving of highly complex technical problems, as a leader of development team in the application development project with 3 persons or more during peak periods.
	Level 3	Able to carry out design, development, and installation of Application systems, by practicing technical problems solving in the assigned area, is in, as a member of development team of the application development project.

Specialty Field:
Application systems

Skill Proficiency/Knowledge Items of Application Specialist

Skill Item and Knowledge Items	Skill Proficiency	
<p>[Career common skill item]</p> <p>●Design</p> <p>[Knowledge Items]</p> <ul style="list-style-type: none"> -Requirements definition -Design of industry package development environments -Design of development environment -Design of database, middleware and distributed computing -Design of industry packages -Understanding and utilization of modeling techniques 	Level 7	
	Level 6	Able to carry out application design that satisfies database requirements, and highly complex development environment requirements, by leading technical team, as a responsible person of development team in the application development project with 50 or more persons during peak periods.
	Level 5	Able to carry out application design that satisfies database requirements, and highly complex development environment requirements, by leading technical team as a responsible person of development team in the application development project from 10 but less than 50 persons during peak periods.
	Level 4	Able to carry out application design that satisfies database requirements, and development environment requirements, as a leader of development team in the application development project with 3 persons or more during peak periods.
	Level 3	Able to practice application design in the assigned area, as a member of development team of the application development project.

Specialty Field:
Application systems

Skill Proficiency/Knowledge Items of Application Specialist

Skill Item and Knowledge Items	Skill Proficiency	
<p>[Career common skill item]</p> <p>●Software Engineering</p> <p>[Knowledge Items]</p> <ul style="list-style-type: none"> -Design techniques -Development techniques -Utilization of development support tools -Programming techniques -Programming languages -Test techniques -Reutilization techniques -Security and privacy -Implementation and inspection of security systems -External design -Internal design -Object-oriented development -Program design -Utilization of verification techniques -Standardization -System audit -Technical verification techniques 	Level 7	
	Level 6	Able to perform system development by leading technical team work related to software engineering such as optimum development techniques, development support tools, and test techniques, etc, as a responsible person of development team in the application development project with 50 or more persons during peak periods.
	Level 5	Able to perform system development by carrying out technical guidance for the technical team on software engineering technology such as optimum development techniques, development support tools, and test techniques, etc, as a responsible person of development team in the application development project from 10 but less than 50 persons during peak periods.
	Level 4	Able to perform work on system development by giving advice to less-experienced members on software engineering technology such as optimum development techniques, development support tools, and test techniques, etc, as a leader of development team in the application development project with 3 or more persons during peak periods.
	Level 3	Able to practice work on system development by using software engineering technology in the assigned area, is in, as a member of development team of the application development project.

Specialty Field:
Application systems

Skill Proficiency/Knowledge Items of Application Specialist

Skill Item and Knowledge Items	Skill Proficiency	
<p>[Career common skill item]</p> <p>●Utilization of consulting techniques</p> <p>[Knowledge Items]</p> <p>-Selection and adaptation of consulting techniques</p> <p>-Understanding and utilization of analytical tools and models</p>	Level 7	
	Level 6	Able to carry out the consulting project successfully, by carrying out selection and application of suitable consulting techniques, definition and practice of processes, definition and creation of product, as a responsible person of development team in the application development project with 50 or more persons during peak periods.
	Level 5	Able to carry out the consulting project successfully, by carrying out selection and application of suitable consulting techniques, definition and practice of processes, definition and creation of product, as a responsible person of development team in the application development project from 10 but less than 50 persons during peak periods.
	Level 4	Able to carry out the project, by carrying out application of consulting techniques, as a leader of development team in the application development project with 3 persons or more during peak periods.
	Level 3	Able to carry out the project, by carrying out application of consulting techniques, as a member of development team of the application development project.

Specialty Field:
Application systems

Skill Proficiency/Knowledge Items of Application Specialist

Skill Item and Knowledge Items	Skill Proficiency	
<p>[Career common skill item]</p> <p>●Knowledge management and utilization</p> <p>[Knowledge Items]</p> <p>-Management and utilization of intellectual properties</p>	Level 7	
	Level 6	Able to carry out the project effectively and with high quality, by carrying out creation database from intellectual property, and its utilization, maintenance, and management in the whole process from project preparation, start to completion, and post completion, as a responsible person of development team in the application development project with 50 or more persons during peak periods.
	Level 5	Able to carry out the project effectively and with high quality, by carrying out creation database from intellectual property, and its utilization, maintenance, and management in the whole process from project preparation, start to completion, and post completion, as a responsible person of development team in the application development project from 10 but less than 50 persons during peak periods.
	Level 4	Able to carry out the project effectively and with high quality, by carrying out creation of database from intellectual property, and its utilization, maintenance, and management, as a leader of development team in the application development project with 3 persons or more during peak periods.
	Level 3	Able to carry out the project effectively and with high quality, by carrying out creation of database from intellectual property, and its utilization, maintenance, and management, as a member of development team of the application development project.

Specialty Field:
Application systems

Skill Proficiency/Knowledge Items of Application Specialist

Skill Item and Knowledge Items	Skill Proficiency	
<p>[Career common skill item]</p> <p>●Project Management</p> <p>[Knowledge Items]</p> <p>-Project Integration Management -Project Scope Management -Project Time Management -Project Cost Management -Project Quality Management -Project Human Resource Management -Project Communications Management -Project Risk Management -Project Procurement Management</p>	Level 7	
	Level 6	Able to perform the project management such as formulation and implementation of plan formulation of project, and change management etc, by cooperating with project managers, as a responsible person of development team in the application development project with 50 or more persons during peak periods.
	Level 5	Able to perform the project management such as formulation and implementation of plan formulation of project, and change management etc, by cooperating with project managers as a responsible person of development team in the application development project from 10 but less than 50 persons during peak periods.
	Level 4	Able to perform the project management such as formulation and implementation of plan formulation of project, and change management etc, by cooperating with project managers as a leader of development team in the application development project with 3 persons or more during peak periods.
	Level 3	Able to carry out either one of main project management such as formulation and implementation of plan formulation of project, and change management etc, in the assigned area, as a member of development team of the application development project.

Specialty Field:
Application systems

Skill Proficiency/Knowledge Items of Application Specialist

Skill Item and Knowledge Items	Skill Proficiency	
<p>[Career common skill item]</p> <p>●Leadership</p> <p>[Knowledge Items]</p> <p>-Leadership</p>	Level 7	
	Level 6	Able to perform the whole phases of development by issuing instructions and orders, as a responsible person of development team in the application development project with 50 persons or more during peak periods.
	Level 5	Able to perform the whole phases of development by issuing instructions and orders, as a responsible person of development team in the application development project from 10 but less than 50 persons during peak periods.
	Level 4	Able to perform project by issuing instructions and orders, as a leader of development team in the application development project with 3 persons or more during peak periods.
	Level 3	Able to participate in the area of Application packages development project in the assigned area, as a member of development team in the application development project.

Specialty Field:
Application systems

Skill Proficiency/Knowledge Items of Application Specialist

Skill Item and Knowledge Items	Skill Proficiency	
<p>[Career common skill item]</p> <p>●Communication</p> <p>[Knowledge Items]</p> <p>-2-Way communication -Distribution of information -Organization, analytical, and retrieval of information</p>	Level 7	
	Level 6	Able to speak about the Application systems with the responsible person on user side, as a responsible person of development team in the application development project with 50 or more persons during peak periods. In addition, able to perform proper 2-way communication and circulation of information, and classify.
	Level 5	Able to speak about the Application systems with the responsible person on user side, as a responsible person of development team in the application development project from 10 but less than 50 persons during peak periods. In addition, able to perform proper 2-way communication and circulation of information, and classify.
	Level 4	Able to perform the project by keeping good communication with project members, as a leader of development team in the application development project with 3 persons or more during peak periods.
	Level 3	Able to facilitate proper team communication, and understand project team status accurately, as a member of development team of the application development project.

Specialty Field:
Application systems

Skill Proficiency/Knowledge Items of Application Specialist

Skill Item and Knowledge Items	Skill Proficiency	
<p>[Career common skill item]</p> <p>●Negotiation</p> <p>[Knowledge Items]</p> <p>-Negotiation</p>	Level 7	
	Level 6	Able to set up a goal with a responsible person of Business application on user side, and able to make an agreement on technical problems based on a logical basis, as a responsible person of development team in the application development project with 50 or more persons during peak periods.
	Level 5	Able to set up a goal with a person with a responsible person of Business application on user side, and able to make an agreement on technical problems based on a logical basis, as a responsible person of development team in the application development project from 10 but less than 50 persons during peak periods.
	Level 4	Able to make an agreement with project team members on technical problems based, as a leader of development team in the application development project with 3 persons or more during peak periods.
	Level 3	Able to obtain information and data required for the project through negotiations, and understand project team status accurately, as a member of development team of the application development project.

Specialty Field:
Application systems

Skill Proficiency/Knowledge Items of Application Specialist

Skill Item and Knowledge Items	Skill Proficiency	
<p>[Specialty Field specific skill item]</p> <p>●Construction of General-Purpose Application Systems (For Human Resources, Accounting, Administration Businesses, etc.)</p> <p>[Knowledge Items]</p> <ul style="list-style-type: none"> -Application environments -General-purpose application contents -Latest general-purpose application trends -Design of general-purpose application 	Level 7	
	Level 6	Able to perform the project successfully in the whole phases of development from system planning, installation to migration, as a responsible person of development team in the general-purpose application development project with 50 or more persons during peak periods.
	Level 5	Able to perform the project successfully in the whole phases of development from system planning, installation to migration, as a responsible person of development team in the general-purpose application development project from 10 but less than 50 persons during peak periods.
	Level 4	Able to perform the project in the whole phases of development as a leader of development team in the general-purpose application development project with 3 persons or more during peak periods.
	Level 3	Able to carry out work in a series of phases of installation, development, and design in the assigned area, as a member of development team of the general-purpose application development project.

Specialty Field:
Application systems

Skill Proficiency/Knowledge Items of Application Specialist

Skill Item and Knowledge Items	Skill Proficiency	
<p>[Specialty Field specific skill item]</p> <p>●Construction of Specific Industry Application systemss</p> <p>[Knowledge Items]</p> <p>-Design of industry application</p> <p>-Application package contents</p>	Level 7	
	Level 6	Able to perform the project successfully in the whole phases of development from system planning, installation to migration, and give suggestions on future trends in the industry, as a responsible person of development team in the industry Application systems development project with 50 persons or more during peak periods.
	Level 5	Able to perform the project successfully in the whole phases of development from system planning, installation to migration, as a responsible person of development team in the industry Application systems development project from 10 but less than 50 persons during peak periods.
	Level 4	Able to perform the project and improve the value and quality of the products in the assigned area, by using specialized knowledge in a specific industry, as a leader of development team in the industry Application systems development project with 3 persons or more during peak periods.
	Level 3	Able to carry out work in a series of phases of installation, development, design in the assigned area, by using specialized knowledge in a specific industry, as a member of development team in the industry Application systems development project.

Skill Proficiency/Knowledge Items

Job career: Application Specialist

Specialty Field: Application packages

Specialty Field:

Application packages

Skill Proficiency/Knowledge Items of Application Specialist

Skill Item and Knowledge Items	Skill Proficiency	
<p>[Career common skill item]</p> <p>●Analytical of Business applications</p> <p>[Knowledge Items]</p> <p>-Analytical of Business application requirements</p> <p>-Analytical of technical requirements</p> <p>-Industry knowledge</p> <p>-Formulation of systematization strategies</p> <p>-Requirements definition of platform</p> <p>-Verification of system values</p> <p>-Informatization and management</p> <p>-General-purpose application contents</p> <p>-Latest general-purpose application trends</p>	Level 7	
	Level 6	Able to carry out analytical of complex and advanced Business application and technical requirements, etc. based on long term perspective on industry and technical trends, as a responsible person of development team in the application development project utilizing Application packages with 50 or more persons during peak periods.
	Level 5	Able to carry out analytical of Business application and technical requirements, as a responsible person of development team in the application development project utilizing Application packages from 10 but less than 50 persons during peak periods.
	Level 4	Able to carry out analytical of Business application and technical requirements, etc. as a leader of development team in the application development project utilizing Application packages, with 3 persons or more during peak periods.
	Level 3	Able to carry out analytical of Business application and technical requirements in the assigned area, as a member of development team of the application development project utilizing Application packages.

Specialty Field:

Application packages

Skill Proficiency/Knowledge Items of Application Specialist

Skill Item and Knowledge Items	Skill Proficiency	
<p>[Career common skill item]</p> <p>●Technology</p> <p>[Knowledge Items]</p> <ul style="list-style-type: none"> -System platform technologies -Latest technology trends -Latest Application packages trends -Computer science fundamentals -Computer systems -System development environment -Understanding and utilization of network technologies -Database technologies -Database design -Relationship between transaction processing and synchronization points of databases -Internet technologies -Programming languages, Markup languages -Middleware technologies -Basic functions of relational database management systems -Latest IT market trends -System management technologies -Platform technologies -Product knowledge (platforms) -Techniques for system management -Selection of database management systems (DBMS) -Installation of database management systems (DBMS) -Important technology in database development -Peripheral technology of databases -Database related technology trends -Network systems technology trends -Knowledge of network products -Network standards -Technologies for implementation of network systems -Techniques for server deployment -Application execution methods -Server technologies -Load sharing and availability -Distributed computing development environments -User interface technologies -Application security -Understanding and utilization of security technology -Security technology trends -Implementation and inspection of security systems -Data modeling -Database operation design -Understanding and utilization of computer system architectures and fundamental technologies 	Level 7	
	Level 6	Able to lead the whole phases of development, by practicing solving of highly complex technical problems, as a responsible person of technical team in the application development project utilizing Application packages with 50 or more persons during peak periods.
	Level 5	Able to perform the whole phases of development, by practicing solving of highly complex technical problems, as a responsible person of development team in the application development project utilizing Application packages from 10 but less than 50 persons during peak periods.
	Level 4	Able to perform the whole phases of development, by practicing solving of highly complex technical problems, as a leader of development team in the application development project utilizing Application packages, with 3 persons or more during peak periods.
	Level 3	Able to carry out design, development, and installation of Application systems, by practicing solving highly complex technical problems in the assigned area, as a member of development team of the application development project utilizing Application packages.

Specialty Field:

Application packages

Skill Proficiency/Knowledge Items of Application Specialist

Skill Item and Knowledge Items	Skill Proficiency	
<p>[Career common skill item]</p> <p>●Design</p> <p>[Knowledge Items]</p> <ul style="list-style-type: none"> -Requirements definition -Design of industry package development environments -Design of development environment -Design of database, middleware and distributed computing -Design of industry packages -Understanding and utilization of modeling techniques 	Level 7	
	Level 6	Able to carry out application design that satisfies database requirements, and highly complex development environment requirements, by leading technical team as a responsible person of development team in the application development project utilizing Application packages with 50 or more persons during peak periods.
	Level 5	Able to carry out application design that satisfies database requirements, and highly complex development environment requirements, by carrying out technical guidance for the technical team as a responsible person of development team in the application development project utilizing Application packages from 10 but less than 50 persons during peak periods.
	Level 4	Able to carry out application design that satisfies database requirements, and development environment requirements, as a leader of development team in the application development project utilizing Application packages, with 3 persons or more during peak periods.
	Level 3	Able to practice application design in the assigned area, as a member of development team of the application development project utilizing Application packages.

Specialty Field:

Application packages

Skill Proficiency/Knowledge Items of Application Specialist

Skill Item and Knowledge Items	Skill Proficiency	
<p>[Career common skill item]</p> <p>●Software Engineering</p> <p>[Knowledge Items]</p> <ul style="list-style-type: none"> -Design techniques -Development techniques -Utilization of development support tools -Programming techniques -Programming languages -Test techniques -Reutilization techniques -Security and privacy -Implementation and inspection of security systems -External design -Internal design -Object-oriented development -Program design -Utilization of verification techniques -Standardization -System audit -Technical verification techniques 	Level 7	
	Level 6	Able to perform development by leading technical team in area such as optimum development techniques, development support tools, and test techniques, etc related to software engineering technology, as a responsible person of technical team in the application development project utilizing Application packages with 50 or more persons during peak periods.
	Level 5	Able to perform development by carrying out technical guidance for the technical team on software engineering technology such as optimum development techniques, development support tools, and test techniques, etc, as a responsible person of development team in the application development project utilizing Application packages from 10 but less than 50 persons during peak periods.
	Level 4	Able to perform development by giving advice to less-experienced members on software engineering technology such as optimum development techniques, development support tools, and test techniques, etc, as a leader of development team in the application development project utilizing Application packages, with 3 persons or more during peak periods.
	Level 3	Able to practice development by using software engineering technology related to an application development utilizing an application package in the assigned area, as a member of development team of the application development project utilizing Application packages.

Specialty Field:

Application packages

Skill Proficiency/Knowledge Items of Application Specialist

Skill Item and Knowledge Items	Skill Proficiency	
<p>[Career common skill item]</p> <p>●Utilization of consulting techniques</p> <p>[Knowledge Items]</p> <p>-Selection and adaptation of consulting techniques</p> <p>-Understanding and utilization of analytical tools and models</p>	Level 7	
	Level 6	Able to carry out the consulting project successfully, by carrying out selection and application of suitable consulting techniques, definition and practice of processes, definition and creation of product, as a responsible person of technical team in the application development project utilizing Application packages with 50 or more persons during peak periods.
	Level 5	Able to carry out the project successfully and application and selection of optimum consulting techniques, definition and practice of processes, definition and creation of product, as a responsible person of development team in the application development project utilizing Application packages from 10 but less than 50 persons during peak periods.
	Level 4	Able to carry out the project, by carrying out application of consulting techniques, as a leader of development team in the application development project utilizing Application packages, with 3 persons or more during peak periods.
	Level 3	Able to carry out the project, by carrying out application of consulting techniques, as a member of development team of the application development project utilizing Application packages.

Specialty Field:

Application packages

Skill Proficiency/Knowledge Items of Application Specialist

Skill Item and Knowledge Items	Skill Proficiency	
<p>[Career common skill item]</p> <p>●Knowledge management and utilization</p> <p>[Knowledge Items]</p> <p>-Management and utilization of intellectual properties</p>	Level 7	
	Level 6	Able to carry out the project effectively and with high quality, by carrying out creation database from intellectual property, and its utilization, maintenance, and management in the whole process from project preparation, start to completion, and post completion, as a responsible person of technical team in the application development project utilizing Application packages with 50 or more persons during peak periods.
	Level 5	Able to carry out the project effectively and with high quality, by carrying out creation database from intellectual property, and its utilization, maintenance, and management in the whole process from project preparation, start to completion, and post completion, as a responsible person of development team in the application development project utilizing Application packages from 10 but less than 50 persons during peak periods.
	Level 4	Able to carry out the project effectively and with high quality, by carrying out creation database from intellectual property, and its utilization, maintenance, and management, as a leader of development team in the application development project utilizing Application packages, with 3 persons or more during peak periods.
	Level 3	Able to carry out the project effectively and with high quality, by carrying out creation database from intellectual property, and its utilization, maintenance, and management, as a member of development team of the application development project utilizing Application packages.

Specialty Field:

Application packages

Skill Proficiency/Knowledge Items of Application Specialist

Skill Item and Knowledge Items	Skill Proficiency	
<p>[Career common skill item]</p> <p>●Project Management</p> <p>[Knowledge Items]</p> <p>-Project Integration Management -Project Scope Management -Project Time Management -Project Cost Management -Project Quality Management -Project Human Resource Management -Project Communications Management -Project Risk Management -Project Procurement Management</p>	Level 7	
	Level 6	Able to perform the project management such as formulation and implementation of plan formulation of project, and change management etc, by cooperating with project managers, as a responsible person of development team in the application development project utilizing Application packages, with 50 persons or more during peak periods.
	Level 5	Able to perform the project management such as formulation and implementation of plan formulation of project, and change management etc, by cooperating with project managers as a responsible person of development team in the application development project utilizing Application packages from 10 but less than 50 persons during peak periods.
	Level 4	Able to perform the project management such as formulation and implementation of plan formulation of project, and change management etc, by cooperating with project managers as a responsible person of development team in the application development project utilizing Application packages, with 50 persons or more during peak periods.
	Level 3	Able to carry out either one of main project management such as formulation and implementation of plan formulation of project, and change management etc, based on development of a part of application Business application utilizing Application packages in the assigned area, as a member of development team of the application development project utilizing Application packages.

Specialty Field:

Application packages

Skill Proficiency/Knowledge Items of Application Specialist

Skill Item and Knowledge Items	Skill Proficiency	
[Career common skill item] ●Leadership [Knowledge Items] -Leadership	Level 7	
	Level 6	Able to perform the whole phases of development by issuing instructions and orders, as a responsible person of development team in the application development project utilizing Application packages with 50 or more persons during peak periods.
	Level 5	Able to perform the whole phases of development by issuing instructions and orders, as a responsible person of development team in the application development project utilizing Application packages from 10 but less than 50 persons during peak periods.
	Level 4	Able to perform project by issuing instructions and orders, as a leader of development team in the application development project utilizing Application packages, with 3 persons or more during peak periods.
	Level 3	Able to participate in the area of Application packages development project in the assigned area, as a member of development team of the application development project utilizing Application packages.

Specialty Field:

Application packages

Skill Proficiency/Knowledge Items of Application Specialist

Skill Item and Knowledge Items	Skill Proficiency	
<p>[Career common skill item]</p> <p>●Communication</p> <p>[Knowledge Items]</p> <p>-2-Way communication -Distribution of information -Organization, analytical, and retrieval of information</p>	Level 7	
	Level 6	Able to speak about the Application systems with the responsible person of user side, as a responsible person of development team in the application development project utilizing Application packages with 50 persons or more during peak periods. In addition, able to perform proper 2-way communication and circulation of information, and classify.
	Level 5	Able to speak about the Application systems with the responsible person of user side, as a responsible person of development team in the application development project utilizing Application packages from 10 but less than 50 persons during peak periods. In addition, able to perform proper 2-way communication and circulation of information, and classify.
	Level 4	Able to perform the project by keeping good communication with project members, as a leader of development team in the application development project utilizing Application packages with 3 persons or more during peak periods.
	Level 3	Able to facilitate proper team communication, and understand project team status accurately, as a member of development team of the application development project utilizing Application packages.

Specialty Field:

Application packages

Skill Proficiency/Knowledge Items of Application Specialist

Skill Item and Knowledge Items	Skill Proficiency	
[Career common skill item] ●Negotiation [Knowledge Items] -Negotiation	Level 7	
	Level 6	Able to set up a goal with a responsible person of Business application on user side, and able to make an agreement on technical problems based on a logical basis, as a responsible person of development team in the application development project utilizing Application packages with 50 or more persons during peak periods.
	Level 5	Able to set up a goal with a responsible person of Business application on user side, and able to make an agreement on technical problems based on a logical basis, as a responsible person of development team in the application development project utilizing Application packages from 10 but less than 50 persons during peak periods.
	Level 4	Able to make an agreement with project team members on technical problems, as a leader of development team in the application development project utilizing Application packages, with 3 persons or more during peak periods.
	Level 3	Able to obtain information and data required for the project through negotiations, and understand project team status accurately, as a member of development team of the application development project utilizing Application packages.

Specialty Field:

Application packages

Skill Proficiency/Knowledge Items of Application Specialist

Skill Item and Knowledge Items	Skill Proficiency	
<p>[Specialty Field specific skill item]</p> <p>●Construction of Application systemss Utilizing Application packages</p> <p>[Knowledge Items]</p> <ul style="list-style-type: none"> -Latest Application packages trends -Design of Application packagess -Selection of running Application packages environment -Installation of Application packagess -Performance tuning of Application packagess -Application packages specific development techniques -Application packages specific development support tools -Application packages programming 	Level 7	
	Level 6	Able to perform the project successfully in the whole phases of development from system planning, installation to migration, and give suggestions on future trends in the Business application, by using specific Application packages technology, as a responsible person of technical team in the application development project utilizing Application packages project with 50 or more persons during peak periods.
	Level 5	Able to perform the project successfully in the whole phases of development from system planning, installation to migration, by using specific Application packages technology, as a responsible person of development team in the application development project utilizing Application packages from 10 but less than 50 persons during peak periods.
	Level 4	Able to perform the project and boost value and quality of products in the assigned area, by using specific Application packages technology, as a leader of development team in the application development project utilizing Application packages, with 3 persons or more during peak periods.
	Level 3	Able to carry out work in a series of phases of installation, development, design in the assigned area, by using specific Business application technology, as a member of development team of the application development project utilizing Application packages.

Skill Proficiency/Knowledge Items

Job career: Application Specialist

Specialty Field: Common to Level 1, 2

Specialty Field: Common to Application Specialist	Skill Proficiency/Knowledge Items of Application Specialist	
Skill Item and Knowledge Items		Skill Proficiency
<p>[Career common skill item]</p> <p>●Analytical of Business applications</p> <p>[Knowledge Items]</p> <p>-Analytical of Business application requirements</p> <p>-Analytical of technical requirements</p> <p>-Industry knowledge</p>	Level 2	Able to understand documents on IT system use proposal content, and analyze Business application and technical requirements, created by higher-level specialist, as a member of development team.
	Level 1	Able to understand documents on a part of analyze Business application requirements, created by higher-level specialist, as a member of development team.

Specialty Field:

Common to Application Specialist

Skill Proficiency/Knowledge Items of Application Specialist

Skill Item and Knowledge Items	Skill Proficiency	
<p>[Career common skill item]</p> <p>●Technology</p> <p>[Knowledge Items]</p> <ul style="list-style-type: none"> -System platform technologies -Latest technology trends -Latest Application packages trends -Computer science fundamentals -Computer systems -System development environment -Understanding and utilization of network technologies -Database technologies -Database design -Relationship between transaction processing and synchronization points of databases -Internet technologies -Programming languages, Markup languages -Middleware technologies -Basic functions of relational database management systems -Latest IT market trends -System management technologies -Platform technologies -Product knowledge (platforms) -Techniques for system management -Selection of database management systems (DBMS) <ul style="list-style-type: none"> -Installation of database management systems (DBMS) -Important technology in database development -Peripheral technology of databases -Database related technology trends -Network systems technology trends -Knowledge of network products -Network standards -Technologies for implementation of network systems -Techniques for server deployment -Application execution methods -Server technologies -Load sharing and availability -Distributed computing development environments -User interface technologies -Application security -Understanding and utilization of security technology -Security technology trends -Implementation and inspection of security systems -Data modeling -Database operation design -Understanding and utilization of computer system architectures and fundamental technologies 	Level 2	Able to practice technical problems solving by using known technology and knowledge, and explain the reason for selecting applicable technology and latest technology trend in the assigned area, as a member of development team under guidance of a higher-level specialist in the same job career category.
	Level 1	Able to grasp the status of technical problem occurrence, and explain the reason for selecting applicable technology and latest technology trend in the assigned area, as a member of development team under guidance of a higher-level specialist in the same job career category.

Specialty Field:
Common to Application Specialist

Skill Proficiency/Knowledge Items of Application Specialist

Skill Item and Knowledge Items	Skill Proficiency	
<p>[Career common skill item]</p> <p>●Design</p> <p>[Knowledge Items]</p> <ul style="list-style-type: none"> -Requirements definition -Design of industry package development environments -Design of development environment -Design of database, middleware and distributed computing -Design of industry packages -Understanding and utilization of modeling techniques 	Level 2	Able to understand documents on application platform design, data modeling, and process modeling created by higher-level specialist as a member of development team.
	Level 1	Able to understand documents on a part of application platform design, data modeling, and process modeling in the assigned area, created by higher-level specialist as a member of development team.

Specialty Field:

Common to Application Specialist

Skill Proficiency/Knowledge Items of Application Specialist

Skill Item and Knowledge Items	Skill Proficiency	
<p>[Career common skill item]</p> <p>●Software Engineering</p> <p>[Knowledge Items]</p> <ul style="list-style-type: none"> -Design techniques -Development techniques -Utilization of development support tools -Programming techniques -Programming languages -Test techniques -Reutilization techniques -Security and privacy -Implementation and inspection of security systems -External design -Internal design -Object-oriented development -Program design -Utilization of verification techniques -Standardization -System audit -Technical verification techniques 	Level 2	Able to practice work in a series of phases related to system development, by using known development techniques, as a member of development team under guidance of a higher-level specialist in the same job career category.
	Level 1	Able to practice work in one part of either system development in the assigned area, by using known technology and knowledge, as a member of development team under guidance of a higher-level specialist in the same job career category.

Specialty Field:

Common to Application Specialist

Skill Proficiency/Knowledge Items of Application Specialist

Skill Item and Knowledge Items	Skill Proficiency	
<p>[Career common skill item]</p> <p>●Project Management</p> <p>[Knowledge Items]</p> <ul style="list-style-type: none"> -Project Integration Management -Project Scope Management -Project Time Management -Project Cost Management -Project Quality Management -Project Human Resource Management -Project Communications Management -Project Risk Management -Project Procurement Management 	Level 2	Able to carry out a series of works related to system design, construction and installation, in the assigned area, as a member of development team by following project plan created by a higher-level specialist in the same job career category.
	Level 1	Able to carry out a either one of works related to system design, construction and installation, in the assigned area, as a member of development team by following project plan created by a higher-level specialist in the same job career category.

Specialty Field:

Common to Application Specialist

Skill Proficiency/Knowledge Items of Application Specialist

Skill Item and Knowledge Items	Skill Proficiency	
[Career common skill item] ●Leadership [Knowledge Items] -Leadership	Level 2	Able to demonstrate fundamental nature, such as teamwork, responsibility, and power of execution, etc, necessary to join the project, as a member of development team.
	Level 1	Able to participate in the project, by understanding fundamental nature, such as teamwork, responsibility, and power of execution, etc, necessary to join the project, as a member of development team.

Specialty Field:

Common to Application Specialist

Skill Proficiency/Knowledge Items of Application Specialist

Skill Item and Knowledge Items	Skill Proficiency	
<p>[Career common skill item]</p> <p>●Communication</p> <p>[Knowledge Items]</p> <p>-2-Way communication -Distribution of information -Organization, analytical, and retrieval of information</p>	Level 2	Able to carry out basic 2-way communication, and circulation of information, necessary to exchange technical information on application development with member of development team, as a member of development team.
	Level 1	Able to understand basic 2-way communication, and circulation of information, necessary to exchange technical information, and to participate in the project as a member of development team.

Specialty Field:

Common to Application Specialist

Skill Proficiency/Knowledge Items of Application Specialist

Skill Item and Knowledge Items	Skill Proficiency	
[Career common skill item] ●Negotiation [Knowledge Items] -Negotiation	Level 2	Able to demonstrate fundamental nature, such as establishing trust relationship, setting up goals, logical thinking, etc, necessary to carry out solving of technical problems, as a member of development team.
	Level 1	Able to demonstrate fundamental nature, such as establishing trust relationship, setting up goals, logical thinking, etc, necessary to carry out solving of technical problems, as a member of development team.

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