

Skill Area and Skill Proficiency

(12) Common items in level 1 and 2

Skill Proficiency

Job category : Common items in level 1 and 2

Common skill proficiency in level 1 and 2

	Specialty Fields	Skill Items
Common skill items	—	<div> <div> □Technology <ul style="list-style-type: none"> ●Basic Theory Discrete Mathematics, Applied Mathematics, Information Related Theory, Communication Related Theory, Measurement / Control Related Theory ●Algorithms and Programming Data Structure, Algorithms, Programming, Programming Languages, Other Languages ●Computer Components Processors, Memory, Bus, Input and Output Devices, Input and Output Apparatus ●System Components System Configuration, System Evaluation Indexes ●Software Operating Systems, Middleware, File systems, Development Tools, Open Source Software ●Hardware Hardware ●Human Interfaces Human Interface Technology, Interface Design ●Multimedia Multimedia Technology, Multimedia Application ●Databases Database Methods, Database Design, Data Manipulation, Transaction Processing, Database Application ●Networks Network Methods, Data Transmission and Control, Communication Protocols, Network Management, Network Application ●Security Information Security, Information Security Management, Security Technology Evaluation, Information Security Measures, Security Implementation Technology ●System Development Techniques System Requirements Definitions, System Formula Design, Software Requirements Definitions, Software Formula Design / Software Detailed Design, Software Code Creation and Testing, Software Integration/Software Qualification Testing, System Integration / System Qualification Testing, Software Installation, Software Acceptance, Software Maintenance ●Software Development Management Techniques Development Processes / Methods, Intellectual Property Application Management, Development Environment Management, Configuration Management / Change Control </div> <div> □Management <ul style="list-style-type: none"> ●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 ●Service Management Service Management, Operation Design / Tools, Service Support, Service Delivery, Service Management Development, Facility Management ●System Audit System Audit, Internal Control </div> <div> □Strategy <ul style="list-style-type: none"> ●System Strategy Information System Strategy, Task Processes, Solution Business ●System Planning System Planning, Requirements Definition, Procurement Planning / Execution ●Management Strategy Business Strategy Methods, Marketing, Business Strategy and Objectives / Evaluation, Business Management Systems ●Technology Strategy Management Technology Development Strategy Planning, Technology Development Planning ●Business Industry Business Systems, Engineering Systems, e-Business, Consumer Electronics, Industrial Appliances ●Corporate Activities Business / Organization Theory, OR/IE, Accounting / Finance ●Legal Affairs Intellectual Property Rights, Security Related Laws and Regulations, Labor and Trading Related Laws/ Regulations, Other Laws, Guidelines, and Engineer Ethics, Standardization ●Leadership Leadership ●Communication 2way Communication, Transmission of Information, Organization, Analysis, and Retrieval of Information ●Negotiation Negotiation </div> </div>

Skill Proficiency・Knowledge Items

Job category: Common items in level 1 and 2

Specialty fields: -

Specialty field:

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Common skill proficiency and knowledge items in level 1 and 2

Skill Items and Knowledge Items		Skill Proficiency	
【Skill items】 ●Basic Theory ●Algorithms and Programming ●Computer Components ●System Components ●Software ●Hardware ●Human interface ●Multimedia	【Knowledge items】 —Discrete Mathematics —Applied Mathematics —Information Related Theory —Communication Related Theory —Measurement / Control Related Theory —Data Structure —Algorithms —Programming —Programming Languages —Other Languages —Processors —Memory —Bus —Input and Output Devices —Input and Output Apparatus —System Configuration —System Evaluation Indexes —Operating Systems —Middleware —File Systems —Development Tools —Open Source Softwares —Hardware —Human Interface Technology —Interface Design —Multimedia Technology —Multimedia Application	Level 2	Have the basic knowledge of relevant skills and knowledge items, and able to perform task in the assigned area under the direction of higher level professionals as a team member.
		Level 1	Have the basic knowledge of relevant skills and knowledge items.

Specialty field:

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Common skill proficiency and knowledge items in level 1 and 2

Skill Items and Knowledge Items		Skill Proficiency	
【Skill items】 ●Databases ●Networks ●Security ●System Development Techniques ●Software Development Management techniques	【Knowledge items】 —Database Methods —Database Design —Data Manipulation —Transaction Processing —Database Application —Network Methods —Data Transmission and Control —Communications Protocols —Network Management —Network Application —Information Security —Information Security Management —Security Technology Evaluation —Information Security Measures —Security Implementation Technology —System Requirements Definitions —System Formula Design —Software Requirements Definitions —Software Formula Design / Software Detailed Design —Software Code Creation and Testing —Software Integration / Software Qualification Testing —System Integration / System Qualification Testing —Software Installation —Software Acceptance —Software Maintenance —Development Processes / Methods —Intellectual Property Application Management —Development Environment Management —Configuration Management / Change Control	Level 2	Have the basic knowledge of relevant skills and knowledge items, and able to perform work in the assigned area under the direction of higher level professionals as a team member.
		Level 1	Have the basic knowledge of relevant skills and knowledge items.

Specialty field:

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Common skill proficiency and knowledge items in level 1 and 2

Skill Items and Knowledge Items		Skill Proficiency	
【Skill items】 ●Project Management ●Service Management ●System Audit ●System Strategy ●System Planning ●Management Strategy	【Knowledge items】 —Project Integration Management —Project Scope Management —Project Time Management —Project Cost Management —Project Quality Management —Project Human Resource Management —Project Communication Management —Project Risk Management —Project Procurement Management —Service Management —Operation Design / Tools —Service Support —Service Delivery —Service Management Development —Facility Management —System Audit —Internal Control —Information System Strategy —Business Processes —Solution Business —System Planning, —Requirement Definition —Procurement Planning / Execution —Business Strategy Method —Marketing —Business Strategy and Objectives / Evaluation —Business Management Systems	Level 2	Have the basic knowledge of relevant skills and knowledge items, and able to perform work in the assigned area under the direction of higher level professionals as a team member.
		Level 1	Have the basic knowledge of relevant skills and knowledge items.

Specialty field:

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Common skill proficiency and knowledge items in level 1 and 2

Skill Items and Knowledge Items		Skill Proficiency	
【Skill items】 <ul style="list-style-type: none"> ●Technology Strategy Management ●Business Industry ●Corporate Activities ●Legal Affairs 	【Knowledge items】 <ul style="list-style-type: none"> —Technology Development Strategy Planning —Technology Development Planning —Business Systems —Engineering Systems —E-business —Consumer Electronics —Industrial Appliances —Business / Organization Theory —OR / IE —Accounting / Finance —Intellectual Property Right —Security Related Laws and Regulations —Labor and Trading Related Laws / Regulations —Other Laws, Guidelines and Engineer Ethics —Standardization 	Level 2	Have the basic knowledge of relevant skills and knowledge items, and able to perform task in the assigned area under the direction of higher level professionals as a team member.
		Level 1	Have the basic knowledge of relevant skills and knowledge items.

Specialty field:

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Common skill proficiency and knowledge items in level 1 and 2

Skill Items and Knowledge Items		Skill Proficiency	
【Skill items】 ●Leadership ●Communication ●Negotiation	【Knowledge items】 —Leadership —2way Communication —Transmission of Information —Organizaiton, Analysis and Retrieval of Information —Negotiation	Level 2	Have the basic knowledge of relevant skills and knowledge items, and able to demonstrate basic quality such as teamwork, transmission of information, establishment of relationship and logical thinking, as a team member.
		Level 1	Have the basic knowledge of relevant skills and knowledge items.