Skill Area and Skill Proficiency

(12) Common items in level 1 and 2

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Skill Proficiency

Job category: Common items in level 1 and 2

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Common skill proficiency in level 1 and 2

	Specialty Fields	Skill Items
Common skill items	-	**□Technology** **●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 Fomula 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 **□Management** **●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 **□Strategy** **●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 Retreaval of Informationl **●Negotiation** Negotiation

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Skill Proficiency・Knowledge Items

Job category: Common items in level 1 and 2

Specialty fields: -

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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】	【Knowledge items】		
●Basic Theory	-Discrete Mathematics -Applied Mathematics -Information Related Theory -Communication Related Theory -Measurement / Control Related Theory	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.
●Algorithms and Programming	-Data Structure -Algorithms -Programming -Programming Languages -Other Languages	Level 1	Have the basic knowledge of relevant skills and knowledge items.
●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 Softwares		
●Hardware	-Hardware		
●Human interface	-Human Interface Technology -Interface Design		
●Multimedia	-Multimedia Technology -Multimedia Application		

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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】	【Knowledge items】		
●Databases	-Database Methods -Database Design -Data Manipulation -Transaction Processing -Database Application	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.
●Networks	-Network Methods -Data Transmission and Control -Communications Protocols -Network Management -Network Application	Level 1	Have the basic knowledge of relevant skills and knowledge items.
●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 Fomula 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		

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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】	【Knowledge items】		
●Project Management	-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	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.
●Service Management	-Service Management -Operation Design / Tools -Service Support -Service Delivery -Service Management Development -Facility Management	Level 1	Have the basic knowledge of relevant skills and knowledge items.
●System Audit	-System Audit -Internal Control		
●System Strategy	-Information System Strategy -Business Processes -Solution Business		
●System Planning	-System Planning, -Requirement Definition -Procurement Planning / Execution		
●Management Strategy	-Business Strategy Method -Marketing -Business Strategy and Objectives / Evaluation -Business Management Systems		

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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】	【Knowledge items】		
●Technology Strategy Management	-Technology Development Strategy Planning -Technology Development Planning	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.
●Business Industry	-Business Systems -Engineering Systems -E-business -Consumer Electronics -Industrial Appliances	Level 1	Have the basic knowledge of relevant skills and knowledge items.
●Corporate Activities	-Business / Organization Theory -OR / IE -Accounting / Finance		
●Legal Affairs	-Intellectual Property Right -Security Related Laws and Regulations -Labor and Trading Related Laws / Regulations -Other Laws, Guidelines and Engineer Ethics -Standardization		

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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】	【Knowledge items】		
●Leadership ●Communication ●Negotiation	-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.

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