Required skill achievement level   Can understand genaral concept   Can underatand details and capable to apply to work Can undertake part of work alone   Can execute and put to practical use Can undertake work alone
Note   Requisite   Selective according to requirement   Copyrights: Accreditation Council for Practical Abilities

Level		Occupational Field/Job Category
Middle Level	Level 3 Applicable Knowledge, Skill	Can enable required work fully alone
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level before work	Level 0 Basic Knowledge	

The main matrix lists Skill Category, Skill Subcategory, and Skill Item against occupational job categories (System Development, IT Administration, Operation, Customer Service, Sales, Staff Planning/Commerce/Legal/Finance, System Development Software, System Engineer (IT Specialist): Platform, Database, System, Network, Security, Operation: System, Network, Service Desk, Hardware, Software, Customer Service, Sales Consultation, Staff: customer Oriented, Planning/Commerce, Legal, Finance, Personnel/General, Education/Human Resources, Development: Application Specialist (Business System, Business Package), Software Development (Basic Software, Middle Software, Application Software), Project Management (System Development, Software Product Development), System engineer Specialist (Platform, Network, Database, Application Common), System Management, Security, Operation: Service Management (Operation Management, System Management, Operation, Service Desk), Hardware, Software, Facility Management, Customer service (Customer Oriented Consulting Sales, Customer Oriented Product Sales), Sales (Media Oriented Sales), Staff: Marketing (Planning/Commerce, Legal, Finance, Personnel/General), Education (Education/Human Resources)).

Skill Category	Skill Subcategory	Skill Item
IT Basic	Internet	Internet Basic
		E-mail
		Information Ethics
		WWW World Wide Web
		Security Measures
	Business Tool	Document Creation
		Spreadsheets
		Presentation Document Creation
		Database Basic
	Computer Basic	Hardware Fundamentals
		OS Fundamentals
		Peripheral Equipment
		Programming Fundamentals
Personal Skill	Communication	Documentation
		Presentation
		Interview
		Situation Response
	Leadership	Leadership
		Members Promotion
		Team Management
	Negotiation	Negotiation
	Management	Management Methodology and Principle
System Platform	Operating Ststems	Windows XP Professional Basic
		Windows XP Professional System Management
		Windows Server 2003 Basic
		Windows Server 2003 System Management
		Windows Server 2003 Network Management
		/Linux Basic
		UNIX/Linux System Management
		μ ITRON Basic
		μ ITRON Intermediate
		iTRON Basic
		iTRON Intermediate
		Embedded Linux Basic
		Embedded Linux Intermediate
		Windows CE Basic
		Windows CE Intermediate
	System Platform Technology	Hardware Architecture
		Transaction Processing
	System Configuration	System Configuration Technology
		System Performance
		Reliability and Economical Efficiency of System
	System Requirement Definition	CPU Performance Estimation
		Storage Capacity Estimation
		Transmission Capacity Estimation
		Transaction Quantity Estimation
		Response Estimation
	Platform Design	Platform Design and Platform Physical Configuration
	Introduction and Migration Planning	Management of Introduction and Migration Planning
		Operational Environment Setup
		System Change Management
		Determination of System Level
	System Evaluation Method	Qualitative Estimation of Reliability
		Data Collection Analysis and Performance Tuning and Bench
	Server Application	Server
		Server
		Directory Server
		Print Server
		Server
		Server
		Server
	Server Construction	Load Distribution Server
		Application Server
Database	Database System Outline	Database Use Outline
		Basic Functions Related to Database
		Relational Model
		Data Warehouse Outline
		Data Mining Outline
	Database Language	SQL
	Database Design and Implementation	Database Requirement Definition
		Conceptual Model Creation
		Logical Model Creation
		Database Phisical Design
		Development Environment
		Database Implementation and Test
	Database Management	Outline
		Installation
		System Management
		Backup and Recovery
	Database Management	Outline
		Installation
		System Management
		Backup and Recovery
	Database Management	Outline
		Installation
		System Management
		Backup and Recovery
	PostgreSQL Database Management	Outline
		Installation
		SQL Setup and Operation
	MySQL Database Management	Outline
		Installation
		SQL Setup and Operation
	Database Programming	SQL S r 2000
	Database System Development	Distributed Database
		Database Securuty
		C/S System and DBMS
	Database-Related Technology	Data Warehouse
		Online Analysis Processing
		Data Mining
		Object-Oriented and Database

Required skill achievement level
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Skill Category	Skill Subcategory	Skill Item
Network	Network Technology	Network Basic
		Protocol and Transmission Control
		Coding and Transmission
		TCP/IP
		LAN
		Wireless
		WAN and Internet Circuit
		Network Components
	Network Design	Requirements Definition
		Logical Design
		Physical Design
	Network Construction	Setup and Introduction
		Test and Evaluation
	Network Maintenance and Operation	Network System Operation and
		Network System Management
		Network System Evaluation
Information Security	Information Security Basic	Information Security Basic Concept
		Information Resourse and Security
		Risk Management Basic Procedure
		Information Security Related
	Information Security Management	Risk Analysis
		Information Security Policy
		Information Security Audit
	Network Security	Network Design Technology
		Network Access Control
		Wireless
	Application Security	Elvctronic Mail
		DNS (Domain Name System)
	OS Security	/Linux
	Firewall	Firewall Introduction and Operation
		NAT (Network Address Translation)
		Network Access Control
	Invasion Detection	Invasion Detection Syetem Introduction
		Invasion Detection System Functions
	Virus	Prevention Policy
		Detection, Infection, Attack
	Security Operation	Security Maintenance in Normal
		Coping with Abnormal Situation
	Security Component Technology	Security Protocol
		Authentification
		(Public Key Infrastructure)
		Encryption
		Electronic Signature
	Unauthorized Access and Prevention	Unauthorized Access
		Prevention of Illegality
	Statute and Regulation	Standards and Guidline
		Statute
		International Standards
		International Guidelines
		Information Security Regulations
Program Development	Program Design	Program Design Principles
		Program Design Documentation
		Creation of Module Specification and Test Specification
		Design Review
	Programming	Algorithm Fundamentals
		C Language: Basic
		C Language: Intermediate
		C++ Basic
		C++)ntermediate
		Basic
		Intermediate
		Visual (Basic)
		Visual (Intermediate)
		Visual C++ Basic
		VisualC++ Intermediate
		Assembler Basic
		Assembler Intermediate
		Basic
		Intermediate
	Script Language	
		Perl
		PHP
	Special Purpose Language	MATLAB
	Mark-up Language	HTML
		XML
		XSLT
	Test Method	Test Method
System Development	Development Method	Process Model
		Components and Reuse Technique
		Life Cycle
		Business Package Specific
	Project Management	Scope Estimation
		Process Estimation
		Process Management
		Quality Management
	Design Method	Object-Oriented Design
		Structured Design
		Data-Centered Design
	Requirement Definition	Requirement Definition
		Customer Requirements Analysis
	External Design	External Specification Design
		External Design Documentation
	Internal Design	Internal Specification Design
		Internal Design Documentation
	Test Method	Test Method
	Review Method	Review Method
	Standardization	Development Standards
		International Standards

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Skill Category	Skill Subcategory	Skill Item
System Development (Multimedia)	CG Creation	Image Capturing and Editing
		Modelling Basics
		Animation Technique
		Scene Construction
		Mathematical Modeling
		Intellectual Property Right
	Web Design	Concept Making
		Web Site Implementation Technology
		Information Structure
		Page Design
		Expression Technique of Image
		Interface
		Test and Evaluation
	Image Processing Engineering	Digital Image Fundamentals
		Image Filtering and Restoratation
		Geometric Transformation
		Recognition and Detection of
		Moving Image Processing and Spatial Information Processing
		Image Compression and Coding
		Image Processing Application Systems
	CG Engineering	Visual Information Processing Fundamentals
		Coordinate Transformation
		Modeling Technology
		Rendering
		Animation Technique
		Image Processing
		Advanced CG Expressions
		CG Systems
	Audio Engineering	Acoustics Basics
		Audio Signal Processing
	Audio Design	Sound Design
		Sound Recording
		Music Theory
Project Management	Project Management Basics	Project Management Basics
	Project Buildup and Planning	Project Integration Management
		Project Scope Management
		Project Time Management
		Project Cost Management
		Project Quality Management
		Project Human Resource
		Project Communication Management
		Project Risk Management
		Project Supply Management
	Project Procurement and Control	Project Integration Management
		Project Scope Management
		Project Time Management
		Project Cost Management
		Project Quality Management
		Project Human Resource
		Project Communication Management
		Project Risk Management
		Project Supply Management
Information and Management	Information Strategy	Information System
		Information System SCM
		Information System CRM
		Information System FSA
		Information System AI
		Information System A
		Information System ASP
		Information System DSS
		Information System SIS
		Business Improvement, Analysis, Design
		Internet-Oriented Business
	Information System	Production Management System Manufacturing
		Sales Management System Manufacturing
		Purchase Management Manufacturing
		/ /
		Accounting, Finance, Personel System
		Sales Support System
		Distribution System
		Finance System
		Public Business System
		Business-to-Business System
		ElectronicClearing System
		Groupware
		Work Flow Control Tool
	Management Engineering	
Business Skill	Business Basic	Business Manner
		Business Mind
		Business Rule
		Compliance
	Legal Affair	Personal Information Protection
		Intellectual Property Rights
		Business Judicial Affairs
	Sales	Root Sales
		Sales Management
		Tele-Marketing
		Credit Management
		Claim Processing
	Finance, Accounting	Financial Statement
		Financial Analysis
		Bookkeeping
		Receipts and Expenses
	Labour	Labor Judicial Affairs
		Labour Management
	Planning	Marketing
		Advertisement, Public Relations (AD,
		Statistical Data Analysis
		Planning Capability
	Production	Production Management
		Logistics