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#### **About ITPEC Common Examination**

ITPEC Common Examination is an assessment tool of IT human resources by measuring IT skills and knowledge of IT engineers, and is based on the Information Technology Engineers Examination of Information-technology Promotion Agency (IPA), Japan.

The examination is conducted in English in 6 countries of ITPEC twice a year (April and October), on the same day using the same set of questions in order to keep the level of the examination equivalent in each country. The questions of the examination are made by the Question Making Committee of each ITPEC

member county in cooperation with Japanese Question Making Committee. The examination is highly reliable since it is a national exam in each country and the certificate issued officially by each government.

#### **Features of the Examination**

- Examination question are designed in vendor-neutral stance
- Applicable in IT human resource development for both Vendors and Users
- English based exam allows for an assessment of ability of IT engineer in global market
- Extensive exam scope with IT and business management

#### **Body of Knowledge**

	Field	Major Category		Middle Category
	Technology	1	Basic Theory	Basic Theory, Algorithms and Programming
		2	Computer Systems	Computer Components, System Components, Software, Hardware
		3	Technical Elements	Human Interfaces, Multimedia, Databases, Networks, Security
		4	Development Techniques	System Development Techniques, Software Development Management Techniques
	Management	5	Project Management	Project Management
		6	Service Management	Service Management, System Auditing
	Strategy	7	System Strategy	System Strategy, System Planning
		8	Management Strategy	Management Strategy, Technology Strategy Management, Business Industry
		9	Corporate & Legal Affairs	Corporate Activities, Legal Affairs

(Note) In the Information Technology Passport Examination, the major category "Development Techniques" is included in the "Management" field because questions are centered on the management of software development processes rather than the technical side of software development.

#### **Examination Outline and Syllabus**

Examination Outlins are available from the links below.

Outline of ITPEC Common Examination (PDF) [until the October 2023 Exam] Outline of ITPEC Common Examination from April 2024 (PDF)

Syllabuses of the examinations in Japan are listed in the link below.

Go to Examination Outline and Syllabuses (outside link to IPA, Japan)

#### Sample Questions for the Examinations from April 2024

Sample questions are available from the links below.

Sample questions for FE Subject B (PDF) Examples of IP Programming Questions (PDF)

#### **Examination Categories**



#### Information Technology Passport Examination

Information Technology Passport Examination is a yardstick for measuring basic IT knowledge by asking a range of questions about information security, network, project management, business activities, management strategy, accounting, legal affairs, etc.

# Typical Target

Business or Public worker applying IT in work / Student preparing for job hunting

# **Level of Knowledge and Skills**

- i. Basic IT knowledge such as information security and network ii. Basic knowledge of business activity/strategy, accounting, and legal affairs
- iii. Basic knowledge and skills of problem solving such as problem analysis, ♂logical/systems
- thinking, and problem solving strategies
- iv. Proficiency with IT office tools and ability to use to improve business efficiency v. Knowledge and skills in order to avoid information security risks

#### Fundamental Information Technology **Engineer Examination**

Fundamental Information Technology Engineer Examination is a yardstick for measuring IT knowledge and skills as a team member by asking a range of questions about algorithm, network, database, information security, practical programming, etc.

# Typical Target

IT engineer working in a team / Student who want be an IT engineer

# **Level of Knowledge and Skills**

- Capable of working as a "Team Member" in the following field
- i. System architecture design and software detailed design ii. Software programming and software development management
- iii. System operation and service management
- iv. Analysis/evaluation of information system strategy
- v. Proposal for planning of information system strategy

# Applied Information Technology Engineer Examination

Applied Information Technology Engineer Examination is a yardstick for measuring IT knowledge and skills as a team leader by asking the range of questions about project management, architecture design, information security, network, etc. It also assesses an individual's ability of operation analysis, problem solving, and management through the use of case studies.

# Typical Target

IT engineer who have an applied knowledge and skills to be a team leader

# **Level of Knowledge and Skills**

- Capable of working as a "Team Leader" in the following field
- i. System design/development/operation
- ii. Planning of business strategy applying IT to satisfy client's needs iii. Project management of scope/budget/process/quality under project manager
- iv. Utilization of applied knowledge and skills about project management, architecture design, and information security in a project

# **Study Materials and More Info**

There are study materials for IP, FE, and AP. Please contact the examination implementing bodies of each ITPEC member country for more information about the study materials and so on.

Go to List of ITPEC Members



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Questions and Answers

Information Technology

Fundamental Information Technology Engineers Examination (FE)

Passport Examination (IP)