The Training on IT Passport Certification Exams for IT Instructors 24 MAY 2010 AM SESSION

INTRODUCTION



当店は日本人専用です。

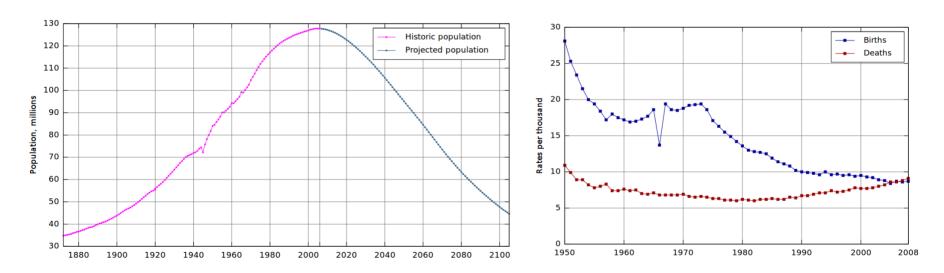
This shop is for exclusive use of a Japanese.

至于当店,日本人专用。 당점은 일본인 전용입니다.

1. Japan is a fast aging society...

Year	Total	0 – 14 years old	15 - 64 years old	65 years and above	%
2001	127,291,000	18,283,000	86,139,000	22,869,000	17.97
2002	127,435,000	18,102,000	85,706,000	23,628,000	18.54
2003	127,619,000	17,905,000	85,404,000	24,311,000	19.05
2004	127,687,000	17,734,000	85,077,000	24,876,000	19.48
2005					
2006	127,770,000	17,435,000	83,731,000	26,604,000	20.82
2007	127,771,000	17,293,000	83,015,000	27,464,000	21.49
2008	127,692,000	17,176,000	82,300,000	28,216,000	22.10
2009	127,510,000	17,011,000	81,493,000	29,005,000	22.75
2010	127,390,000	16,940,000	81,180,000	29,270,000	22.98

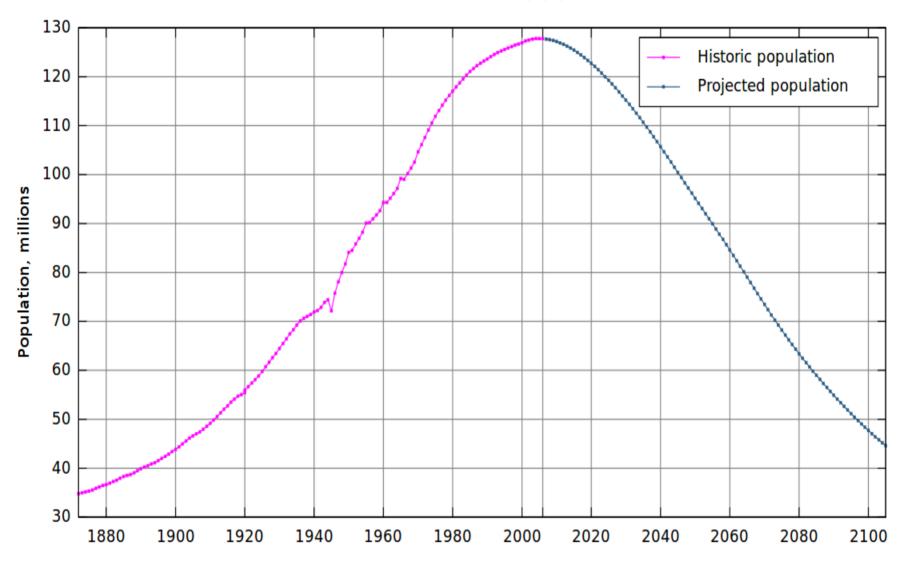
(Source: http://www.stat.go.jp/english/data/jinsui/tsuki/index.htm)

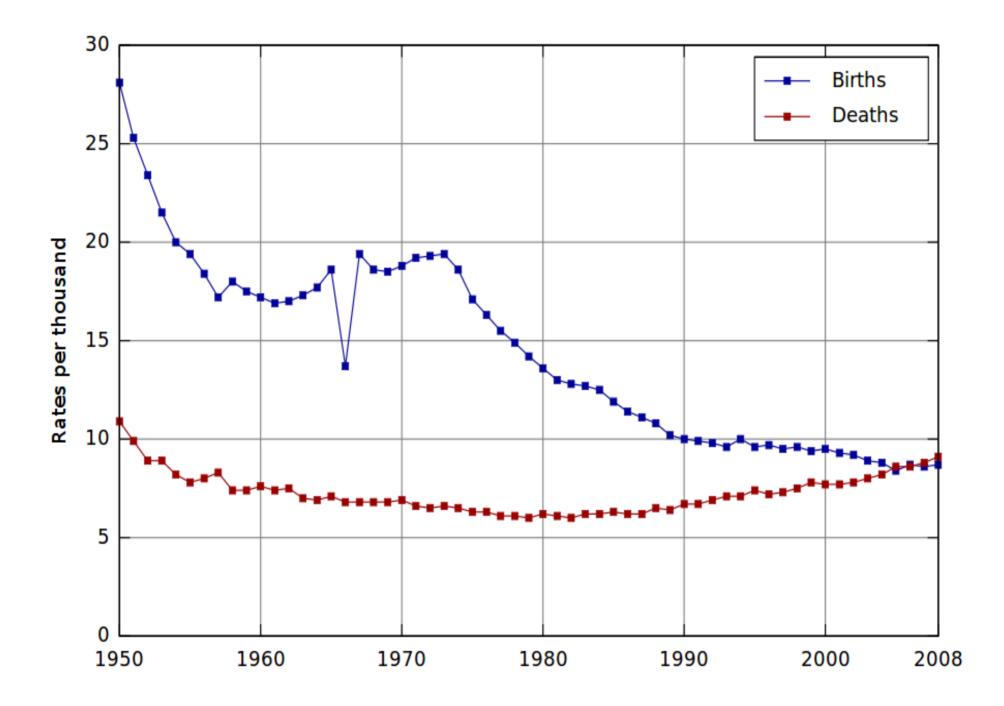


According to a study conducted by the UN Population Division which was released in 2000, for Japan to address its aging population problem thus maintain its worker-to-retiree ratio, it would need to either raise its retirement age to 77 or accept 10 million immigrants annually between 2000 and 2050.

(Source: http://en.wikipedia.org/wiki/Aging_of_Japan)



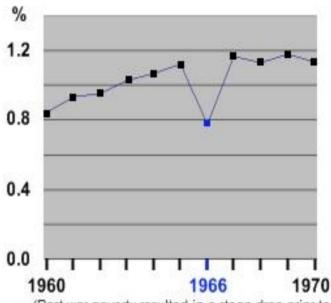






According to the OECD (http://stats.oecd.org/), the annual percentage growth rate in Japan twixt 1960 and 1970 was:

1960	0.84%
1961	0.93%
1962	0.95%
1963	1.02%
1964	1.06%
1965	1.12%
1966	0.77%
1967	1.16%
1968	1.12%
1969	1.17%
1970	1.13%



(Post-war poverty resulted in a steep drop prior to 1980, followed by sustained growth as the country recovered. The rate peaked in the early 70's and has declined ever since. In 2008 the growth rate was zero and it continues to fall. The 2020 rate is projected to be -0.5%.)

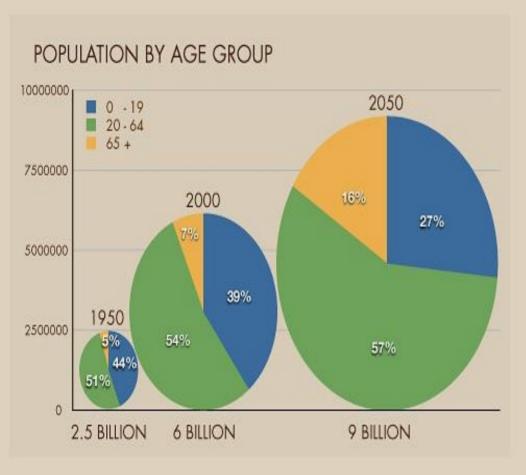
The Fire Horse

Girls born in 1966 became known as 'Fire Horse Women' and are reputed to be dangerous, headstrong and generally bad luck for any husband. In 1966, a baby's sex could not be reliably detected before birth; hence there was a large increase of induced abortions and a sharp decrease in the birth rate of 1966 in Japan.

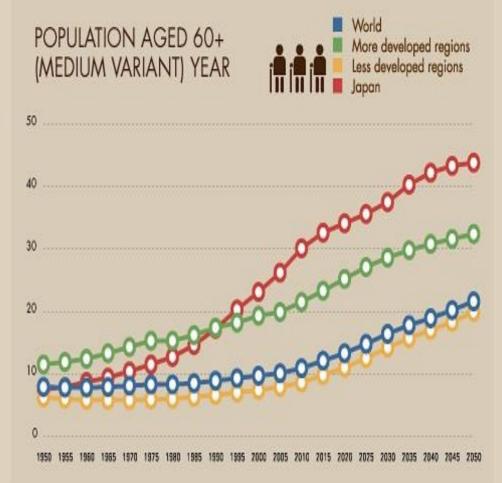
Our Ageing World

Every month, more than a million people turn 60.

The world is ageing rapidly. The number of people aged 65 and over will double as a proportion of the global population, from 7% in 2000 to 16% in 2050. By then, there will be more older people than children (aged 0-14 years) in the population for the first time in human history.



Source: Population Division of the Department of Economic and Social Affairs of the United Nations Secretariat, World Population Prospects: The 2006 Revision and World Urbanization Prospects: The 2005 Revision, http://esa.un.org/unpp



Source: Population Division of the Department of Economic and Social Affairs of the United Nations Secretariat, World Population Prospects: The 2006 Revision and World Urbanization Prospects: The 2005 Revision, http://esa.un.org/unpp

Ageing affects all societies - high-income as well as low and middle-income societies - but at a different pace.

The same demographic ageing process that unfolded over 115 years in France, took only 26 years in Japan and will be 21 years in Brazil.

2. Japan "shares" its ITEE (IT Engineers Examination) Standards with Asian countries...

October 2000



economic ministers of ASEAN, together with the People's Republic of China, the Republic of Korea, and Japan convened in Chiang Mai, Thailand and agreed to promote a program to recognize Common Skills Standards in the IT field across Asia.

November 2005



Information Technology Professional
Examination Council (ITPEC) was established by
representatives from Japan, Philippines,
Malaysia, Mongolia, Myanmar, Thailand, and
Vietnam.

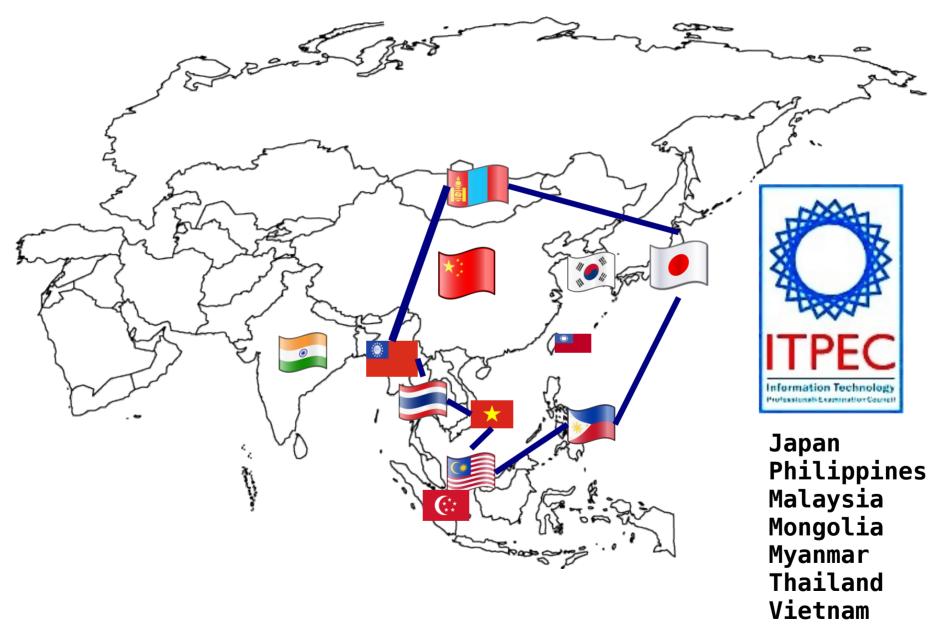
as of November 2007

JITEC-IPA of Japan has signed mutual recognition agreements with eleven partners across Asia.

This mutual recognition of a Common Skill Standards for IT Engineers is intended to <u>facilitate cross-border cooperation and exchange of IT human resources in the region</u>.

(Source: http://www.jitec.jp/2_01english/03mutualrecognition.html)

3. Mutual Recognition of ITEE Skills Standard...



(Source: http://www.jitec.jp/2_0lenglish/03mutualrecognition.html)

4. JITEC-IPA Japan, ITPEC and PHILNITS

JITEC

Japan Information Technology Engineers Examination Center









Myanmar Computer Federation









5. Why PHILNITS Certification?

- PHILNITS Certification is JITEC-IPA Japan ITEE Certification (IT Engineer Examinations) and ITPEC Certification
- Japanese companies recognize ITEE Certifications and <u>certificate is recognized in seven (7) countries including Japan</u>
- PHILNITS Certified IT Engineers are given preference to training programs in Japan or in the Philippines conducted by the Association of Overseas Technical Scholarship (AOTS), Center of the International Cooperation for Computerization (CICC), etc.







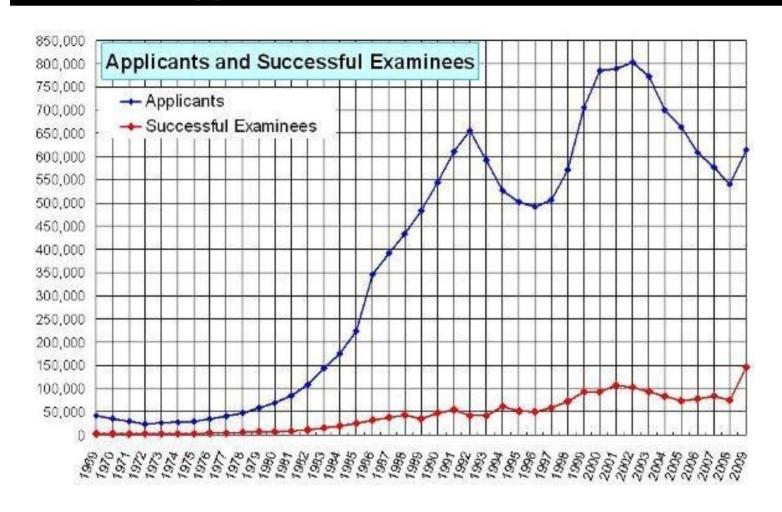


6. ITEE (Information Technology Engineers Examination)

Commor	Career/Skill Framework			Infor	MAKE STREET, S	tems/Emb	edded syst	ems		
	1				Vendo	r/User				Independer
		Advanc	ed-Level	Examina	tion					
Level 4	Advanced-Level Knowledge/ Skills	Information Technology Strategist Examination (ST)	Systems Architect Examination (SA)	Project Manager Examination (PM)	Network Specialist Examination (NW)	Database Specialist Examination (DB)	Embedded Systems Specialist Examination (ES)	Information Security Specialist Examination (SC)	Information Technology Service Manager Examination (SM)	Systems Auditor Examination (AU)
Level 3	Applied Knowledge and Skills	Applied Information Technology Engineer Examination (AP)								
Level 2	Fundamental Knowledge and Skills	Fundamental Information Technology Engineer Examination (FE)								
Level 1	Fundamental Knowledge Required of All Workers		Inf	formation	n Technol	ogy Passi	oort Exan	nination	(IP)	

(Source: http://www.jitec.ipa.go.jp/2_01english/02examcategories.html)

7. ITEE Applications and Successful Examinees



As of April 2010, the examination has been taken by over 15.40 million applicants, approximately 1.7 million of whom passed successfully (11.04%)



April 2009 IT Passport Exams in Japan

Number of Applicants	46,845
Number of Exam Takers	39,131
Number of Successful Applicants	28,540
Examination Passing Rate	72.90%

8. ITPEC April 2006 — April 2009 FE Statistics

Country	# Examinees	# Certified	% Passed	% Passed to Overall Totals # Examinees	% Passed to Overall Totals # Certified
Malaysia	573	35	6.11	0.29	2.47
Mongolia	403	29	7.2	0.24	2.05
Myanmar	689	41	5.95	0.34	2.89
Philippines	3923	487	12.41	4.02	34.37
Thailand	3530	313	8.87	2.58	22.09
Vietnam	3002	512	17.06	4.22	36.13
Overall Totals	12,120	1,417			

results of the Common Fundamental Examinations for IT Engineers (FE) given in the period April 2006 — April 2009 (figures only as available in ITPEC website: http://www.itpec.org)

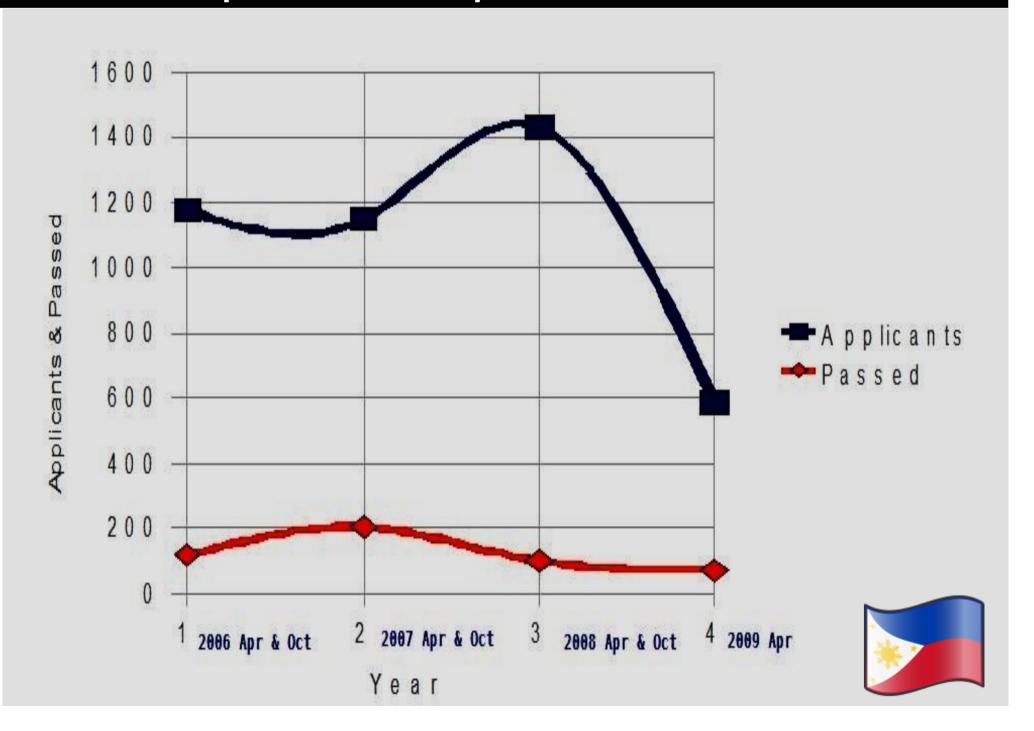
9. ITPEC April 2006 - April 2009 SW Statistics

Country	# Examinees	# Certified	% Passed	<pre>% Passed to Overall Totals # Examinees</pre>	% Passed to Overall Totals # Certified
Malaysia	-	-	_	-	_
Mongolia	-	<u>-</u>	-	-	-
Myanmar	-	-	-	-	-
Philippines	44	17	38.64	2.90	58.62
Thailand	105	3	2.86	0.51	10.34
Vietnam	437	9	2.06	1.54	31.03
Overall Totals	586	29			

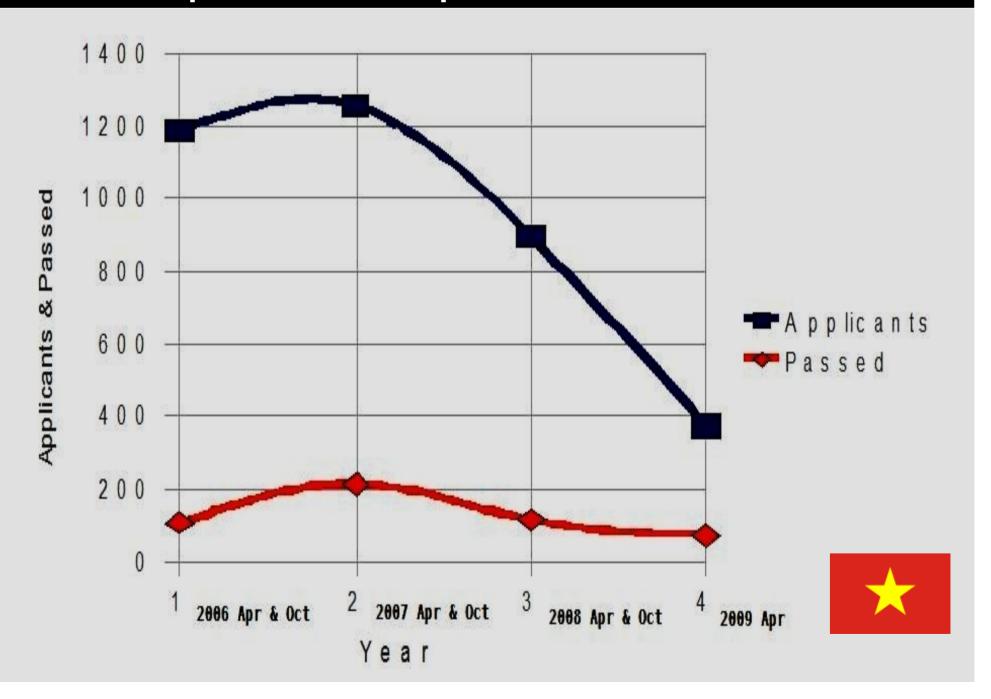
results of the Common Software Design and Development Engineers Certification Examinations (SW) given in the period April 2006 — April 2009

(figures only as available in ITPEC website: http://www.itpec.org)

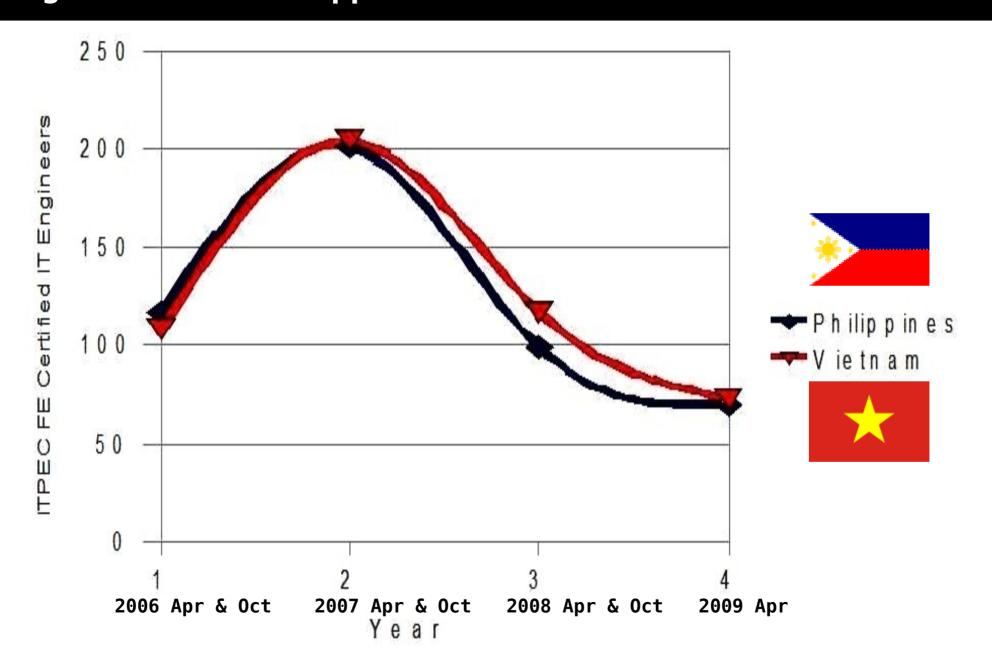
10. ITPEC April 2006 — April 2009 PHILS FE Exams



11. ITPEC April 2006 — April 2009 Vietnam FE Exams

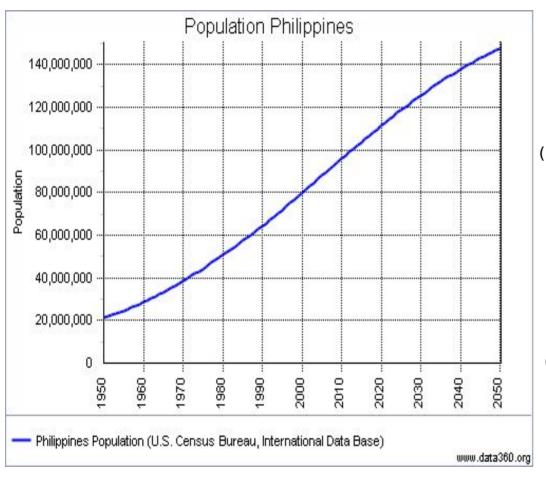


12. ITPEC April 2006 — April 2009 FE Certified IT Engineers — Philippines & Vietnam



13. Our Advantage...

We are a young and growing population and highly competent in **English** language.



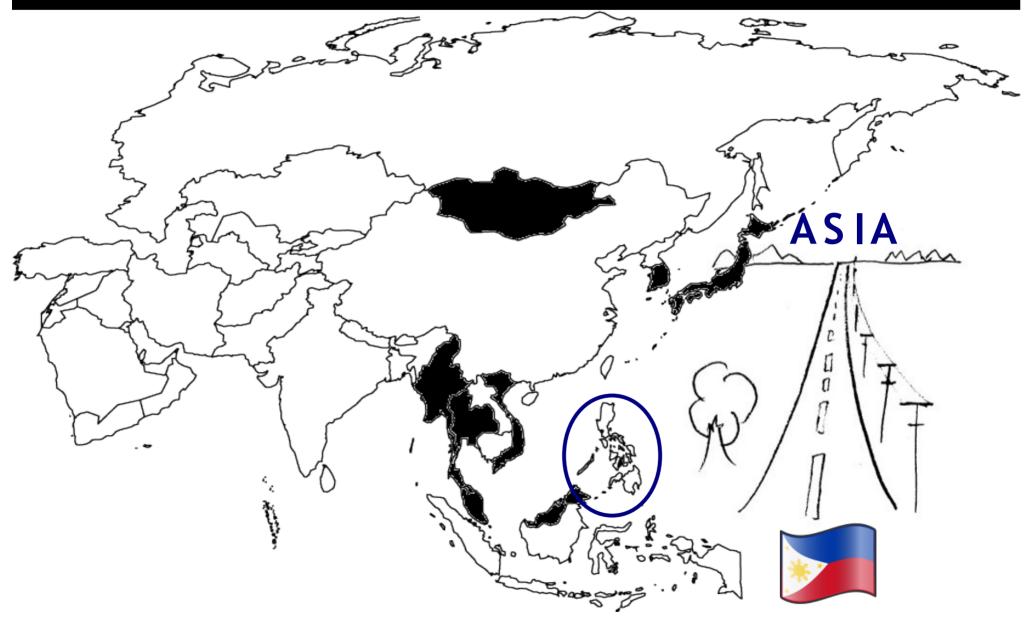
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#12 in the world
  Population
                      97,976,603
  TOTAL
  0 - 14 yrs old
                      35.2%
  15 - 64 yrs old
                      60.6%
  65 and over
                       4.1%
(https://www.cia.gov/library/publications/the
      -world-factbook/geos/rp.html)
  Year 2040 est
  TOTAL
                     141.700.000
  0 - 14 yrs old
                     23.1%
  15- 64 yrs old
                     67.1%
  65 and over
                      9.7%
(https://www.census.gov.ph/pressrelease/2006/
  Distribution comparable to 1983
  Population of Japan (119,483,000)
  0 - 14 (22.52\%); 15 - 64 (67.71\%);
  65 & over (9.77%)
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Books and reference materials in IT Technology are written mostly in the English language.

Country	Area	Population
Philippines	300,000	99,900,177
Malaysia	329,847	26,160,256
Mongolia	1,564,116	3,086,918
Myanmar	676, 578	53,414,374
Singapore	697	4,701,069
Thailand	513,120	66,404,688
Vietnam	331,210	89,571,130
South Korea	99,720	48,636,068
Australia	7,741,220	21,515,754
Canada	9,984,670	33,759,742

Source: https://www.cia.gov/library/publications/the-world-factbook/ (Population Estimates July 2010)

14. We have a chance...



to secure our rightful place in Asia in producing more ITPEC Certified IT Engineers...

15. And we can start it here in...

IT Passport Certification Exams

Self-Introduction...

Give a brief introduction of yourself stating among others:

- Name
- ✓ Company or Institution
- ✓ Position, Duties, and Responsibilities
- ✓ Area of Specialization (ex. what you teach)
- ✓ Expectations of the Training Program
- 0ther information about yourself you
 want to share



Training on IT Passport Certification Exams for IT Instructors

Philippine National IT Standards Foundation Makati City, Philippines 24 May - 28 May, 2010





1. What this Training IS and what it IS NOT...

Mot a training to teach Corporate
Activities, Legal Affairs, Accounting,
Project Management, Mathematics, Statistics,
Computer Science, etc. to students who will
take the IT Passport Certification Exams

✓ a training on what the IT Passport
Certification Examination is, the expected
skills and knowledge areas required, the
manner questions are formulated in the
exams, to IT Instructors who will prepare
their students for the IT Passport
Certification Exams

2. After this TRAINING we expect...

- ✓ you understand what the IT Passport Certification Examinations, its relations to the ITSS (Skills Standard for IT Professionals) and ITEE (IT Engineers Examination) and its relevance to your students in IT
- ✓ you will have sufficient understanding on the expected skills and knowledge items required for one to successfully pass the IT Passport Certification Exams
- ✓ you can utilize the provided IT Passport
 Preparation Book and the Practice Exams to create
 your own IT Passport Preparation Training Course
 (Curriculum) and Training Road Map that you can
 use in preparing your students for the actual
 exams

3. Training Schedule...

	MORNING SESSION	AFTERNOON SESSION
DAY 1	INTRODUCTION	INDIVIDUAL Exercise
DAY 2	STRATEGY	GROUP Exercise and Presentation
DAY 3	MANAGEMENT	GROUP Exercise and Presentation
DAY 4	TECHNOLOGY	GROUP Exercise and Presentation
DAY 5	SUMMARY	GROUP Exercise and FINAL Presentation

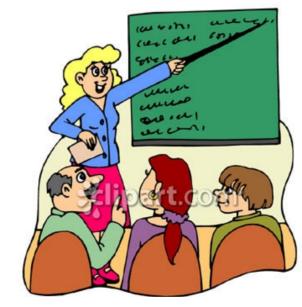
4. Activities during the Training ...

A. Short Lectures



B. Group Discussions





C. Group Presentations

20 MINUTES



The IT Passport Certification Examinations

1. What is IT Passport Certification Exams?

ti is Level 1 in the ITEE (Information Technology Engineers Examinations) equivalent to ITSS (Skills Standard for IT Professionals) Level 1, published by the Ministry of Economy, Trade, and Industry (METI) of Japan

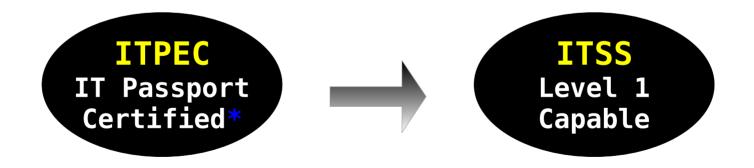
ITSS Internal high-end player and Level 7 High level IT human resource Deliverables world class player Super (Performance) high based Internal high-end player Level 6 Work experiences and interview Level 5 Intra-firm high-end player High Determined by Level 4 High level knowledge and skill the examination and work experiences Level 3 Applied knowledge and skill Applied Information Technology Engineer Examination (AP) Skill (Capability) Middle based Level 2 Fundamental knowledge and skill Fundamental Information Technology Engineer Examination (FE) Docc fail examination Required minimum Entry Level 1 Information Technology Passport Examination (IP) basic knowledge

Level	Definition		
Level 7	World-class, high-end player with advanced knowledge and skills: Defined as human resources recognized throughout the world who have experience and achievements in successfully leading development, restructuring of business operations, and marketing of industry leading services.		
Level 6	Domestic-level, high-end player with advanced knowledge and skills: Defined as human resources widely recognized inside and outside their organizations who have professional experience and achievements not only within their organizations but also in the industry.		
Level 5	In-house, high-end player with advanced knowledge and skills: Defined as professionals who have rich experience and achievements to leather organizations.		
Level 4	Defined as professionals with advanced knowledge and skills who are able to perform tasks and deliver work instructions based on experience and achievements as well as to formulate the experience required for professionals as formal knowledge to develop younger people.		
Level 3	Defined as human resources with practical knowledge and skills who are able to perform all required tasks on their own.		
Level 2	Defined as human resources with basic knowledge and skills who are able to perform tasks with a certain degree of difficulty or part of the required task on their own.		
Level 1	Defined as human resources with the minimum knowledge and skills required for people involved in information technology who are able to perform tasks under guidance.		

... IT Passport Certification Exams is ...

a means to test the minimum "basic knowledge" for individuals as IT Professionals, whether they have the basic knowledge of information technology that all business workers should commonly possess;

* a means to test whether individuals can perform assigned tasks under the direction of higher-level professionals regardless of the specialty fields



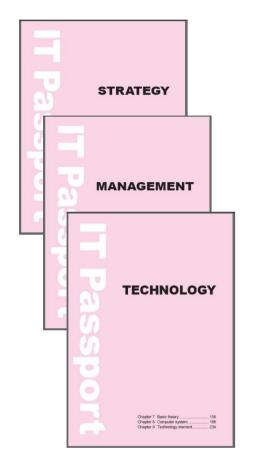
^{*} being adopted by ITPEC

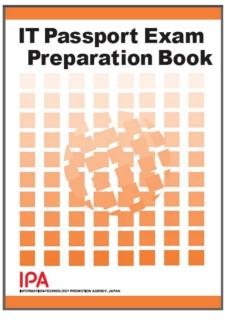
2. Configuration of the Exams

Exam Du	ration	165 minutes		
Exam Type		Multiple-choice (1 out of 4 choices) (1) Short question type (1 exam question contains 1 question) (2) Medium question type (1 exam question contains 4 questions. The questions examine knowledge and understanding from several viewpoints with regard to a single situational setting).		
Number	of Questions	 100 questions, answers required for all questions (1) Short question type: 88 questions (2) Medium question type: 12 questions (3 exam questions consisting of 4 subquestions each) 		
	Number of Questions per Field	Questions are asked according to the following ratio with regard to the 3 fields comprising the scope of questions: (1) Strategy field: about 35% (2) Management field: about 25% (3) Technology field: about 40%		
Point Allo	cation	1,000 total points		
Grading Method		According to raw points (points are allocated for each question, and allocated points for correct answers are totaled)		
Pass criteria		A pass is granted when both (1) and (2) below are satisfied: (1) Total points (totaled from each field): more than 60% of maximum points (2) Points in each field: more than 30% of the maximum points in each of the 3 fields.		

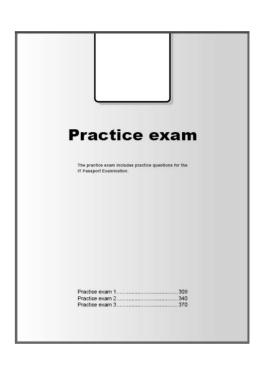
Source: IPA-Japan IT Passport Preparation Book

3. Materials provided in this Training





-and-



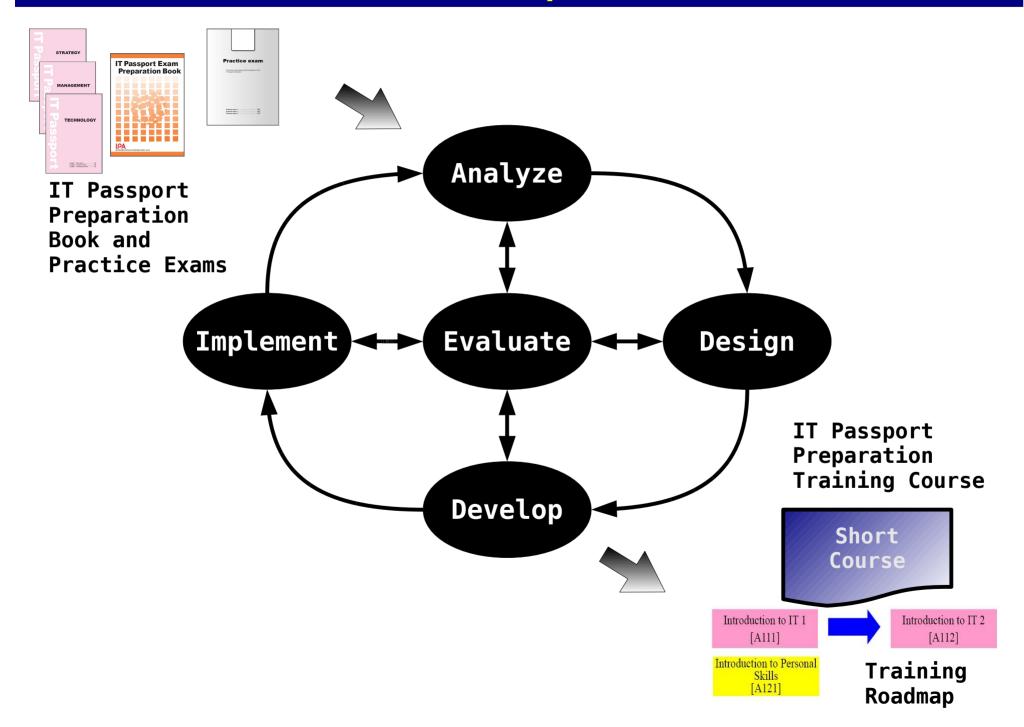
IT Passport Preparation Book

- IT Passport Strategy
- IT Passport Management
- IT Passport Technology

IT Passport Practice Exams

- Practice Exam 1
- Practice Exam 2
- Practice Exam 3

4. How we use the IT Passport Materials ...



5. Creating an IT Passport Preparation Training Course using the IT Passport Preparation Materials....

1 ANALYSE

- wsing the IT Preparation Book
 - ✓ find important keywords and phrases
 - establish the expected <u>Skills</u> and the corresponding <u>Knowledge</u> items
 - determine relevant items as subjects, detailed
 topics, prerequisites among others

(refer to the Scope of Questions, Overview of the Exams, IT Passport Exams Preparation Book as guide)

- wsing the Practice Exams
 - ✓ learn the manner and style questions are constructed in relation to what are being asked from the examinees and how answer options are formulated

2 DESIGN

w using the results obtain during analysis
create a blue print or model of your IT
Passport Preparation training course

your blue print or model should specify
among others

- ✓ prerequisites if any
- ✓ learning objectives stating what your students are expected to accomplish after the training as well as the learning steps
- ✓ performance tests (practice exams) to ascertain competence level attained by your students

(when creating practice exams, refer to the results of your analysis on question formulation. this way, your students will be familiar with the questions in the actual IT Passport Certification Exams)

- * arrange your learning objectives in proper sequence you see best and meaningful for your students. you may consider arrangement:
 - ✓ according to increasing complexity (from SIMPLE TO COMPLEX)
 - ✓ according to their <u>relative importance</u>
 - ✓ according to <u>familiarity of topics</u> (from KNOWN TO UNKOWN)
 - ✓ according to <u>dependency relationship</u> between objectives
 - ✓ according to <u>common elements</u> found in certain objectives (they should be as close as possible so that maximum learning can take place)
 - ✓ according to <u>cause and effect</u> relationship between two or more objectives

🜟 using results obtain in the design, create a diagram to show sequence of the learning objectives, and create lesson plan based on the learning objectives (sample below)

	Database Technology 1
Learning Goal	Explain the method of data modeling and database normalization
Contents	 Database The concept of modeling The concept of analysis and design for data - Database normalization Exercise [Database normalization method]
Training Method (Estimated Time)	Lecture (70 minutes) Exercise (20 minutes)
Relationship to Major/Middle Category of Common Career/Skill Framework	Technical Element - Database
Other special notes	

- create a Training Management Plan to implement your Training Course which should contain the following:
 - ✓ complete description of the training course
 - ✓ qualifications of trainee students
 - ✓ directions for administering the training and scoring practice exams
 - directions for guidance, assistance, and evaluation of the trainees
 - ✓ list of all the topics (subjects) to be instructed, training road map (sequence)
 - ✓ copy of training materials which should include among others the IT Passport Preparation Book, Practice Exams

5 EVALUATE

perform evaluation during the analysis, design, development, and implementation phases to determine how you can improve your IT Preparation Training Program

your evaluation may either be:

✓ Formative also known as <u>internal</u> that <u>focuses on</u> the <u>process</u> which permits you and your students to monitor how well the learning objectives are met and to address deficiencies if any

✓ Summative also known as <u>external</u> that <u>focuses on</u> the <u>outcome</u> which can be done by administering a complete IT Passport Preparation Exams

"much of the foundation of the field of instructional
 design was laid in World War II, when the U.S.
 military faced the need to rapidly train large
numbers of people to perform complex technical tasks,
from field-stripping a carbine to navigating across
 the ocean to building a bomber"

(http://en.wikipedia.org/wiki/Instructional_design)

CATEGORIES

1 STRATEGY 2 MANAGEMENT 3 TECHNOLOGY

TASKS

A	 determine Skills and Knowledge Areas required in the category set where possible learning objectives
	<pre>in each knowledge area > arrange either the knowledge areas or learning objectives in a particular sequence</pre>
В	find key terms or key phrases in the category writing down their definitions and or meanings
С	create questions with corresponding answer options for the category



The Training on IT Passport Certification Exams for IT Instructors 24 MAY 2010 PM SESSION

IT Passport Certification Mock Exams 1:00pm - 3:45pm