8.Information and Communication Technology

Capacity Building for ICT Project Planning (ex. e-government, e-education, e-health, e-agriculture, etc.)
ICT案件形成能力向上

1684572
Continuing
20 participants

Target Countries :

Course No. :J1604277

Sector :Information and Communication Technology/Information and Communication Technology

Sub-Sector :

Language :English

Outline

This training course is intended for participants to acquire skills to solve various development issues, using an ICT problem solving approach, obtained through lectures, workshops and site visits.
Participants with various backgrounds (medical services, agriculture, industrial promotion, disaster management/reduction, education, etc.) are anticipated, not limiting to those with an ICT technical background.

Objective/Outcome

【Objective】
To improve the capacity to develop ICT projects which help solve development issues of various fields effectively and efficiently by learning mainly 3 components, namely; 1. Up-to-date ICT solutions for various challenges in Japan; 2. Basic ICT literacy necessary to pursue below (3.); 3. Practical skills for problem analysis and issue based problem-solving.
【Outcome】
To learn the below 1. to 3. to come up with practical and feasible action plans, and subsequently share the below 1. to 4. with respective participants' organization to implement 4. 1. Up-to-date ICT solutions for various challenges in Japan 2. Basic literacy of ICT 3. Practical skills for problem analysis and issue based problem-solving 4. Action Plan Note: The most important characteristic of this training course lies in introduction of practical skills for problem analysis and issue based problem-solving, widely used in business consultation. Participants are expected to create action plans for solving various development issues in respective countries/organizations, using an ICT problem-solving approach. This course is designed to help participants think on their own and seek for ICT solutions for their own challenges and it is not intended to deal with any specific development issues in depth, and thus participants are not limited to those with specific developmental backgrounds.

Target Organization / Group

【Target Organization】
Ministries/agencies at central and/or local levels. Participation from chamber of commerce and NGOs will be individually considered, if requested.

【Target Group】
Officials from central/local governments who are engaged in issue based problem-solving, using ICT solutions
(e.g. e-government, e-education, e-health, e-agriculture, etc.)

Contents

【Preparatory Phase】 Preparation of 'job report' is required to describe development issues dealable effectively and efficiently with an ICT problem-solving approach along with ongoing efforts in respective participants' countries. The job report also needs to cover current ICT situations such as internet/internet usage, cases of ICT application for problem-solving, technical/financial difficulties etc.
【Training in Japan】 Lectures/ observations/ discussions on
1. Up-to-date ICT solutions for various challenges both by public and private sectors in Japan;
2. Basic technical training (OSS, networking, e-bis, telecenter, related legal arrangements etc.);
3. Practical skills for problem analysis and issue based problem-solving, widely used in business consultation;
4. Preparation and presentation of action plans.

【Post-Program activities】
Participants are expected to implement their action plans and submit progress report after 6 months.

Course Period	2016/06/19 ～ 2016/07/23
Implementing Partner	Graduate School of Information technology, Kobe Institute of Computing
Department in Charge	Infrastructure and Peacebuilding Department
JICA Center	JICA Kansai (Ⅱ)
Cooperation Period	2015～2017
Remarks and Website	<reference> http://ict4d.kic.ac.jp/en/index.html?result=English

ICT for the Improvement of Government Capacity and Services
行政サービス改善のためのICT利活用

1684573
Continuing
48 participants

Target Countries :

Course No. : J1604352/J1604225/J1604226/J1604227

Sector : Information and Communication Technology/Information and Communication Technology

Sub-Sector :

Language : English

Outline

The delivery of reliable and efficient administrative services is a precondition for a country to advance its socioeconomic development. The effective use of ICT, in this respect, can be a useful tool. This training course aims to empower government officials to design, develop and operate ICT solutions while focusing on following key areas: ICT system management and operation, ICT system design, ICT strategy and ICT security.

Objective/Outcome

【Objective】
ICT officers' capacity to deal with upper process of the software development enhanced, and reliable, secured and efficient administrative services ensured.
Throughout this training program, participants are expected to be capable of:

【Outcome】
1. Analyzing the affiliated organization's current work process and recognizing its current issues;
2. Exploring and understanding the different way of designing and developing ICT solutions;
3. Designing, developing and operating appropriate and implementable ICT solutions;
4. Defining a roadmap to tackle a current issue of the organization.

Target Organization / Group

【Target Organization】
Ministries and/or agencies in a central government and/or local government authorities.

【Target Group】
ICT officers and other staff having system engineering background and who will be dealing with ICT matters in government and other governmental institutions.

Contents

This pragmatic training program will focus on practice and case studies. Upon the termination of this course, the participants will be able to implement effective ICT solutions.

【Preliminary Phase】
Participants will be asked to submit an inception report.

【Core Phase in Japan】
To achieve each objective, participants will undertake following programs:
1. Case study: By visit public institutions, enterprises and data centers, study concrete examples of ICT use in Japan.
2. Lecture content: Advanced technology, human skills, business requirement analysis, BCP, system design and development.
3. Comprehensive exercise: Simulate the entire process of ICT solutions' development process including the requirement analysis, designing, development and operation.
4. Action Plan: Define ICT solutions to address Organization's issues in improving the administrative service delivery

Course Period	2016/08/31 ～ 2017/01/30
Implementing Partner	Under Planning
Department in Charge	Infrastructure and Peacebuilding Department
JICA Center	JICA Okinawa
Cooperation Period	2014～2016
Remarks and Website	(A)2016/08/31-2017/01/30 (English:Okinawa) (B)2016/10/05-2017/03/08 (English:Okinawa) (C)2017/02/01-2017/06/01 (English:Okinawa) (D)2017/03/15-2017/07/20 (English:Okinawa)

Improving ICT policy promotion skills utilizing standards -overcome challenges by deployment of ICT infrastructure corresponding to the situation-
国際標準を活用したICT政策の推進能力向上～途上国の状況に応じたICTインフラ整備による課題解決～

1684578
Updated
12 participants

Target Countries : ASEAN members, India, Latin America, Turkey, Eastern Africa and so on

Course No. : J1604084

Sector : Information and Communication Technology/Information and Communication Technology

Sub-Sector : Private Sector Development/Trade and Investment

Language : English

Outline

For director or equivalent class of promoter engaged in ICT standardization and ICT policy, with sharing the standardized and to be standardized technologies of Japan, and the related promotion practices by ICT policy, participants learn to improve ICT policy planning and promotion skills and develop suitable ICT infrastructure to overcome challenges by utilizing standardization and international trends.

Objective/Outcome

【Objective】
Participant will understand the importance of ICT international standardization and initiative in ICT policy utilizing international standards. Appropriate ICT policy will be considered to solve challenges (development of ICT infrastructure, proposal of procurement, social problem etc) respective countries are facing by utilizing international standard.
【Outcome】
(1) To analyze issues concerning with ICT infrastructure, faced by respective countries

(2) To understand the importance of ICT standard, ICT standardized technology and the latest trends on ICT standardization, as well as to approach ICT standardization by industry-government-academies

(3) To consider and share ICT policy which make use of international standard for overcoming challenges of respective countries, through a case study related to ICT infrastructure development of Japan utilizing ICT standard

Target Organization / Group

【Target Organization】
Governmental authority and municipal departments of telecom administration or division of public telecom operator in charge of telecom standardization
【Target Group】
-Director class or equivalent in governmental or public organizations of ICT

-Nominees who have engaged in ICT planning for more than five years. Preferable experience: promotion of ICT technology, infrastructure, and standardization policy planning.

Contents

The lectures, practices, observations and discussions following below

1. Presentation and exchange of opinions

   Presentation of country report and following discussion, concerning with sharing, analyzing, and exchanging idea on issues of own countries related to ICT infrastructure.

2. Lecture and field trip

   (1) Importance of ICT international standard
   (2) Policy for ICT standardization, by Ministry of Internal affairs and communications.
   (3) Vendor (Including NTT), R&D, and case on development of infrastructure
   (4) Standardized activity, such as approaching to the national bodies such as ITU, by national ICT standardization bodies
   (5) Case on standardization of mobile phone, optical infrastructure, IoT, smart city etc.

3. Presentation and exchange of opinions

   Drafting and sharing of individual reports

Course Period	2017/01/18 ～ 2017/02/04
Implementing Partner	Under Planning
Department in Charge	Infrastructure and Peacebuilding Department
JICA Center	JICA Tokyo(Economy&Env.)
Cooperation Period	2016～2018
Remarks and Website	

Capacity Building for Elaborating Information Security Policy
情報セキュリティ政策能力向上

1684579
Continuing
12 participants

Target Countries : ASEAN Countries excluding Singapore and Brunei
Course No. : J1604003
Sector : Information and Communication Technology/Information and Communication Technology
Sub-Sector : Governance/Other Governance Issues
Language : English

Outline

This training program, targeting officials in charge of information security, aims at enhancing capacity to develop and implement information security policy through introducing Japan's efforts regarding information security management in governmental agencies. Also this course pays a special attention to critical infrastructures which provide essential service to the social activities and people's lives in the respective countries.

Objective/Outcome

【Objective】
To understand trend in standardization as well as efforts in the field of information security in Japan and other ASEAN countries to improve measures for information security for critical infrastructures in the respective countries.

【Outcome】
1. To be able to explain the purpose and the outline of ISO/IEC27000 and ISMS.
2. To understand outline of measures for information security for critical infrastructures practiced in Japan.
3. To be able to explain the ideal situation of information security management in governmental organizations.
4. To propose action plan to make information security policy enhancement of the participants'countries.

Target Organization / Group

【Target Organization】
Relevant ministries, governmental CSIRT(Computer Security Incident Response Team) and national CERT(Computer Emergency Response Team)

【Target Group】
1. Being in charge of information security (such as create security policy, risk, analysis, or in charge of security measures for critical infrastructure systems and so on.)

2. Be a Director or assistance director class or equivalent level.

Contents

【Preliminary Phase】
Formulation and submission of Country Report.

【Core Phase in Japan】
1. The organizations related to information security in Japan and their roles.
2. The roles of JPCERT/CC in protection of critical infrastructures.
3. The roles of CEPTER (Capacity for Engineering of Protection, Technical Operation, Analysis and Response).
4. Introduction of efforts for establishment of accreditation/certification organization of standardization in Japan.
5. Measures and relevant laws of information security in Japan.
6. Standardization trend in the field of regulating system.
7. Efforts for development of human resources and educational activities conducted by public/private organizations.
8. Presentation of Action Plan for the participant's organization.

【Finalization Phase】
Report the Individual Report to their own organizations.

Course Period	2017/01/29 ～ 2017/02/11
Implementing Partner	Fujitsu Learning Media Limited
Department in Charge	Infrastructure and Peacebuilding Department
JICA Center	JICA Tokyo(Economy&Env.)
Cooperation Period	2014～2016
Remarks and Website	This is related to "Japan-ASEAN Information Security Meeting" held by MIC every year since 2009. It integrates "ASEAN-Japan Information Security Training" which has been conducted by NISC since 2010, into JICA's program.

Defense Practice against Cyber Attacks
サイバー攻撃防御演習

1684860
New

24 participants

Target Countries : ASEAN member countries only

Course No. : J1604010

Sector : Information and Communication Technology/Information and Communication Technology

Sub-Sector :

Language : English

Outline

In order to respond to increasing numbers of cyber attacks, The course is aimed at improvement incident response capacity of LAN administrators of ASEAN member countries. It is intended to train information system administrators who are capable to respond to risks of business continuation while taking daily operation into consideration,

Objective/Outcome

【Objective】
To understand institutions, functions, and human resources for effective incident handling through practice.
【Outcome】
(1) To understand targeted cyber attack cases

(2) To understand respones to targeted cyber attackss

(3) To understand procedure of incident handling

Target Organization / Group

【Target Organization】
National CERT, Ministry or Bureau in charge of Cyber Security
【Target Group】
Those who are expected to respond cyber security incidents (need to apply in a combination of administrator and technician(s)

Contents

(1) Targeted cyber attack cases

(2) Respones to targeted cyber attackss

(3) Procedure of incident handling

(4) Practice (surveillance, Analysis, indident handling, reporting)

Course Period	2017/01/15 ～ 2017/01/28
Implementing Partner	Under Planning
Department in Charge	Infrastructure and Peacebuilding Department
JICA Center	JICA Tokyo(Economy&Env.)
Cooperation Period	2016～2018
Remarks and Website	

Digital Terrestrial TV Broadcast (DTTB) Engineering
地上デジタルTV放送技術

1684581
Continuing
13 participants

Target Countries : Countries which adopted ISDB-T or consider to adopt ISDB-T

Course No. : J1604079

Sector : Information and Communication Technology/Broadcasting

Sub-Sector :

Language : English

Outline

This program aims to learn not only digital technology and theory, but also what measures were taken place to realize successful switch-over from analog to digital TV broadcast and what solutions were done to tackle challenges in Japan. These lessons will serve as guidelines for the engineers of each country aiming to realize digitalization of TV broadcast.

Objective/Outcome

【Objective】
To understand the advantages of digital broadcasting system, promoting the systematical and logical digitization process of the broadcasting in participants' organizations.

【Outcome】
1. To be able to explain the outline of digital broadcasting technology.
2. To be able to explain the advantages of a digital broadcasting system and make use of the knowledge for the planning and implementation of digitalization.
3. To share the knowledge and technique of digital broadcasting planning/operation in his/her organization after returning.

Target Organization / Group

【Target Organization】
TV broadcasting organizations and related governmental organizations.

【Target Group】
1. Engineers, working at TV Broadcasting organizations or Government-related organizations.
2. Have practical experience in TV transmission engineering. Be in charge of planning/implementation of digitalization of the broadcast.

Contents

【Preliminary Phase】
Formulation and submission of Inception Report.

【Core Phase in Japan】
1. Fundamentals of Digital Theory (sampling, quantization, coding, transmission, modulation), Digital Broadcast Services, Digital Transmitter, Digital Terrestrial TV, Radio, Trend of Digital Broadcast.
2. Digital Transmission System (Analog/Digital Simulcasting), Challenges for Introducing DTTB (Case Study of Channel Planning and Construction of Relay Stations), Disaster Newscasts, Digital Broadcasting Service for Educational Programs.
3. Presentation on the outputs of training

【Finalization Phase】
Report the outputs of the training to their own organizations, and submit the follow-up report to JICA.

Course Period	2016/06/19 ～ 2016/07/30
Implementing Partner	NHK-Communications Training Institutes
Department in Charge	Infrastructure and Peacebuilding Department
JICA Center	JICA Tokyo(Economy&Env.)
Cooperation Period	2014～2016
Remarks and Website	

TV Program Production for Digital Terrestrial Broadcasting
地上デジタルテレビ放送の番組制作

1684582
Updated
12 participants

Target Countries : Countries which adopted ISDB-T or one-seg Broadcasting

Course No. : J1604083

Sector : Information and Communication Technology/Broadcasting

Sub-Sector :

Language : English

Outline

This program aims to promote digitization of broadcasting by understanding the new possibilities of digital broadcasting and by improving ability of producing more attractive digital contents with advantages of digital broadcasting, such as data broadcasting. Participants shall have opportunities to learn and inspect the process of TV program production for digital broadcasting, such as high definition program making and data broadcasting, which would broaden the possibility of TV program production and would help participants to compile more attractive TV program plan with widened knowledge of TV program production method.

Objective/Outcome

【Objective】
Participants are expected to gain fundamental knowledge and skills of program production for digital broadcasting, and to improve their ability of producing more attractive digital contents using advantages of digital broadcasting.

【Outcome】
(1) To gain fundamental knowledge and skills of program production for digital broadcasting, and learn rights and protection for the contents.

(2) To obtain better understanding of the process of program production for digital broadcasting.

(3) To make a TV program plan for the participant's organization based on the knowledge and skills gained through the above training contents(1)-(3).

Target Organization / Group

【Target Organization】
broadcasting organizations and related governmental organizations
【Target Group】
TV producers, directors, or journalist engaged in designing or editing programs in public/national broadcaster or government organization

Contents

【Prior activity】

To make a country report about the situation of making digital contents in participants' countries and about their organization.

【Training in Japan】

Training curriculums (lectures, exercises, visits, discussion) would be considered as following;

1) Features of Japanese digital terrestrial broadcasting system(ISDB-T) and overseas expansion
2) Rights and protection for contents of broadcasting program
3) Skills of program production for digital terrestrial broadcasting, process of making digital program (combination of one-segment broadcasting and ICT, etc.)
4) Study visit to broadcast stations, studios and manufacturer, etc.
5) Making a TV program plan individually and presenting it

Report the outputs of the training to their own organizations, and submit the follow-up report to JICA.

Course Period	2016/08/21 ～ 2016/09/10
Implementing Partner	Under Planning
Department in Charge	Infrastructure and Peacebuilding Department
JICA Center	JICA Tokyo(Economy&Env.)
Cooperation Period	2016～2018
Remarks and Website	ITU recommends all countries to migrate from Analogue broadcasting to Digital broadcasting by 2015, so many countries started to consider digital migration all over the world.