

QUALITY MANAGEMENT OF STEEL FABRICATION 鋼材加工の品質管理	
May 26, 2003 ~ Oct. 4, 2003 8 participants J0303447	
<b>OVERALL GOAL / PURPOSE</b>	<b>QUALIFICATION OF APPLICANT</b>
This training course is designed for countries which desire to promote the steel industry and its improvement in production and quality. Therefore, the purpose of this training course is to provide participants with knowledge and techniques in the usage of steel and the selection of conditions and fabrication methods appropriate to steel properties, so that they will be a driving force to the development in steel industry in each country.	(1) be engineer or instructor in the field of production, application or inspection of steel products with at least 5 years of experience, (2) be university graduate in metallurgy or mechanical engineering, (3) be under 37 years old
<b>COURSE CONTENTS</b> (1) Quality management and control technique (2) Basic properties of steel material (3) Production method and properties of various steel products and applicable products (4) Various methods for testing and inspecting steel products (5) Manufacturing technique of cast and forged steel parts and countermeasures against defects (6) Plastic processing of steel plates and countermeasures against defects (7) Manufacturing method of welded structures and countermeasures against defects (8) Visit to related industries	<b>LANGUAGE</b> English
	<b>TRAINING INSTITUTIONS</b> KITAKYUSHU INT'L TECHNO-COOPERATIVE ASSOCIATION
	<b>JICA CENTER</b> Kyusyu International Centre
	<b>COOPERATION PERIOD</b> 2000 ~ 2004
	<b>REMARKS</b>

HIGH PERFORMANCE POLYMER TECHNOLOGY 高性能高分子工学	
Apr. 21, 2003 ~ Aug. 3, 2003 6 participants J0303400	
<b>OVERALL GOAL / PURPOSE</b>	<b>QUALIFICATION OF APPLICANT</b>
The course aims to introduce to the participants knowledge and techniques concerning manufacture and quality control of polymer materials, and to foster competent specialists who are able to test and evaluate polymer materials, based on broad and profound knowledge and experience in their specialized field.	1) university/college graduate in chemistry or chemical engineering, or equivalent (2) at least 3 years of experience in polymer technology (3) between 25 and 35 years of age
<b>COURSE CONTENTS</b> In this course the emphasis is put on laboratory experiments. The main themes are: (1) properties of polymer materials and their manufacture (2) evaluation and testing techniques of polymer materials (3) molding techniques (4) application techniques of functional polymer materials.	<b>LANGUAGE</b> English
	<b>TRAINING INSTITUTIONS</b> OSAKA MUNICIPAL TECHNICAL RESEARCH INST.
	<b>JICA CENTER</b> Osaka International Centre
	<b>COOPERATION PERIOD</b> 1999 ~ 2003
	<b>REMARKS</b>

HEAT TREATMENT AND METAL FINISHING TECHNOLOGY FOR IMPROVING METAL PROPERTY 材料性質改善処理技術	
Aug. 25, 2003 ~ Dec. 15, 2003 6 participants J0303446	
<b>OVERALL GOAL / PURPOSE</b>	<b>QUALIFICATION OF APPLICANT</b>
The purpose of the course is to train the participants in the field of various improving technologies for metal materials for machinery and metal industries so as to enable them to contribute to promotion and modernization of industries in developing countries through upgrading the reliability of machineries and metallic products.	1. be experts presently engaged in this field of technology at industry, research/educational institutes with more than two (2) years of experience; 2. have basic physical and chemical knowledge; 3. be under thirty-five (35) years of age;
<b>COURSE CONTENTS</b> (1) Basic Knowledge (2) Strengthening of bulk materials (3) Surface hardening and strengthening (4) Corrosion protection process and control (5) Related technology and items	<b>LANGUAGE</b> English
	<b>TRAINING INSTITUTIONS</b> AICHI INDUSTRIAL RESEARCH ASSOCIATION
	<b>JICA CENTER</b> Chubu International Centre.
	<b>COOPERATION PERIOD</b> 2000 ~ 2004
	<b>REMARKS</b>

## SEMINAR ON EVALUATION OF NATIONAL R&D PROJECTS

産業技術に係る研究開発プロジェクト評価セミナー

Jan.20, 2004 ~ Feb.22, 2004 10participants J0303483

### OVERALL GOAL / PURPOSE

It is significant to feed the results of investigation, analysis and assessment of the ongoing or completed national research and development projects back to the planning division for the effective optimal allocation of national resources. Taking this condition into consideration, the course aims to provide knowledge and practical skills for the accurate assessment of the target operation system.

### QUALIFICATION OF APPLICANT

Governmental officials engaged in planning and administration in the evaluation of national research and development projects, or governmental officials who have more than three (3) years of occupational experience.

### LANGUAGE

English

### COURSE CONTENTS

- (1) Introduction of Research and Development (R&D) Project in Japan
- (2) Outline of economic model for R&D Project
- (3) Introduction of evaluation for R&D Project
- (4) Introduction of evaluation methods for R&D Project
- (5) Examples of the evaluation of R&D Project
- (6) Exercise for developing and operating the evaluation systems
- (7) Country report presentation
- (8) Study visit

### TRAINING INSTITUTIONS

#### JICA CENTER

Tokyo International Centre

#### COOPERATION PERIOD

2000 ~ 2004

#### REMARKS

## AUTOMOBILE AND ENVIRONMENT

自動車と環境

Jun.3, 2003 ~ Jul.26, 2003 12participants J0303441

### OVERALL GOAL / PURPOSE

Participants are expected to have an incentive and ideas how to contribute to the promotion of legislation, institutionalization and implementation of measures for the environmental issues on automobiles.  
It is not the objective of the training to familiarize the participants with advanced skills that can be immediately applied in the automobile industry or in the environmental monitoring etc.

### QUALIFICATION OF APPLICANT

- (1) environmental engineers in management post at national or local governmental organizations related to automobiles with at least five (5) years of experience;
- (2) university graduates in environmental engineering or related fields;
- (3) over 28 and under 45 years of age

### LANGUAGE

English

### COURSE CONTENTS

The course contains lectures, practices, group works and technical tours. Main focus of this course is on environmental issues arising from automobile use and production.

Topics of lectures include followings;

1. General  
Policy on Automobile Industry, Inspection, Traffic Flow and Control, etc
2. Exhaust Emission Reduction Technologies  
Testing Methods, Clean Energy(Fuel Cell, Hybrid, etc), Policies and Regulations, etc.
3. Other Environmentally Friendly Technologies  
Automobile Recycling, Noise Reduction, Human Health, etc

### TRAINING INSTITUTIONS

JAPAN AUTOMOBILE RESEARCH INSTITUTE

#### JICA CENTER

Tsukuba International Centre

#### COOPERATION PERIOD

2000 ~ 2004

#### REMARKS

<http://www.jari.or.jp/en/index.html>

## NONDESTRUCTIVE INSPECTION TECHNIQUE FOR QUALITY MANAGEMENT & PLANT ASSET MANAGEMENT

非破壊検査技術III

Feb.16, 2004 ~ Jun.20, 2004 8participants J0300818

### OVERALL GOAL / PURPOSE

The purpose of the course is to provide indispensable principle and techniques of nondestructive inspection method for quality assurance of industrial products (e.g. casting, forging, rolled steel products or weldments), so as to develop their domestic industry.

### QUALIFICATION OF APPLICANT

- (1) be university graduates from the faculty of engineering,
- (2) be age of 40 years or less,
- (3) have experience in inspection work including nondestructive inspection, or who will be engaged in it in the near future

### LANGUAGE

English

### COURSE CONTENTS

- (1) Outline of NDI techniques
- (2) Technique for quality control
- (3) Relation between NDT and destructive testing
- (4) Outline of RT
- (5) Outline of SM
- (7) Outline of UT
- (8) Fundamentals of AE
- (9) Fundamentals of metallic materials
- (10) Practice in AE, ET, PT, MT, SM, UT, RT
- (11) Flaw in steel products and its inspection
- (12) Countermeasures for defect prevention of cast and forged steels
- (13) Flow in welding products and its inspection
- (14) Recent technological improvement in NDT progress
- (15) Maintenance Inspection
- (16) Cleaner production
- (17) Practice in destructive testing

### TRAINING INSTITUTIONS

KITAKYUSHU INT'L. TECHNO-COOPERATIVE ASSOCIATION

#### JICA CENTER

Kyusyu International Centre

#### COOPERATION PERIOD

2003 ~ 2007

#### REMARKS

The course name changed from this fiscal year.  
(Former name is 'Nondestructive Inspection Technique')

**PROCESSING AND CHARACTERIZATION OF INORGANIC MATERIALS AND METALS**

無機・金属材料

Aug.25, 2003 ~ Dec.7, 2003 5 participants J0303454

<b>OVERALL GOAL / PURPOSE</b>	<b>QUALIFICATION OF APPLICANT</b>
The purpose of this course is to impart sufficient knowledge, skills and experience in synthesis, processing and characterization of inorganic materials and metals to promote technical development in the fields of electronics and other industries.	(1) have a master's degree or the equivalent and have majored in inorganic materials science/engineering or metallic materials science/engineering (2) be between 25 and 40 years of age (3) have 3 years or more of experience in inorganic materials technology or metallic materials technology
	<b>LANGUAGE</b>
	English
<b>COURSE CONTENTS</b>	<b>TRAINING INSTITUTIONS</b>
In this course, the following major subjects will be covered through lectures, discussions and observation trips: (1) Outline of inorganic materials and metals (2) Outline of processing of inorganic materials and metals (3) Synthesis and processing methods of inorganic materials and metals (4) Outline of instrumental analysis for inorganic materials and metals (5) Instrumental analysis methods of inorganic materials and metals (6) Specialized training	OSAKA MUNICIPAL TECHNICAL RESEARCH INST.
	<b>JICA CENTER</b>
	Osaka International Centre
	<b>COOPERATION PERIOD</b>
	2000 ~ 2004
	<b>REMARKS</b>

**WELDING ENGINEER**

溶接技術者研修

Apr.7, 2003 ~ Oct.6, 2003 8 participants J0300600

<b>OVERALL GOAL / PURPOSE</b>	<b>QUALIFICATION OF APPLICANT</b>
By the end of the training period, the participants are expected to have theoretical and practical knowledge of: 1. Welding processes and equipments 2. Materials and their behavior during welding 3. Construction and design 4. Welding fabrication, application engineering 5. Nondestructive tests, etc	(1) be presently in charge of welding engineering, with three years or more of experience (2) be university graduates in an engineering discipline or the equivalent (3) be over 26 and under 35 years of age
	<b>LANGUAGE</b>
	English
<b>COURSE CONTENTS</b>	<b>TRAINING INSTITUTIONS</b>
•Welding processes and equipment •High strength low alloyed steels and its application •Construction and design •Fabrication, applications engineering •Fundamental practical operations •Observation and practice in companies, research institutes and educational facilities •Short group training in companies	THE JAPAN WELDING ENGINEERING SOCIETY
	<b>JICA CENTER</b>
	Chubu International Centre
	<b>COOPERATION PERIOD</b>
	1999 ~ 2003
	<b>REMARKS</b>
	Participants can obtain IIW welding Personnel Qualification Diploma through the training when he/she passes the exam at the end of the program.

**OPERATION OF UNDERSTANDING ON RULES AND PROCEDURES GOVERNING THE DSU, WTO AGREEMENT**

WTO協定・紛争解決了解の運用

Feb.1, 2004 ~ Feb.15, 2004 10 participants J0303496

<b>OVERALL GOAL / PURPOSE</b>	<b>QUALIFICATION OF APPLICANT</b>
Practicing the DSU requires advanced knowledge, and developing nations are still in the process to fully administer the rules. Therefore, this course is designed for the government officials from developing nations to: (1) understand the procedure of the WTO Dispute Settlement Understanding, (2) deepen and widen the understanding of well-known Panel Cases, and (3) exercise themselves in order to brush up the ability in dealing with the Dispute Settlement.	(1) be governmental officials engaged in the work to the WTO DSU, and who have more than 5 years of occupational experience, (2) be university graduates, learned Economic Law, (3) be over thirty (30) but under forty-five (45) years of age, etc.
	<b>LANGUAGE</b>
	English
<b>COURSE CONTENTS</b>	<b>TRAINING INSTITUTIONS</b>
The following subjects will be covered in this course in the form of lecture, discussion and presentation. (1) Overview Session on WTO Agreements and New Round Negotiations (2) Outline of the Dispute Settlement Procedure (3) Enhancing the Understanding of the Panel Case 1 - Analysis of the Well-known Dispute Settlement Case - (4) Enhancing the Understanding of the Panel Case 2 - through the Japanese Government's Experience - (5) Summary and Closing Remarks	
	<b>JICA CENTER</b>
	Tokyo International Centre
	<b>COOPERATION PERIOD</b>
	2001 ~ 2005
	<b>REMARKS</b>

## SUSTAINABLE TOURISM DEVELOPMENT II

観光開発と環境保全II

Sep.23, 2003 ~ Nov.23, 2003 10participants J0303525

### OVERALL GOAL / PURPOSE

- (1) To understand the concept, basic principles and technique for developing sustainable tourism.
- (2) To understand that not only preservation of natural environment but also multi-lateral environmental considerations for realizing sustainable tourism development.
- (3) To understand the outline of tourism administration in Japan.
- (4) To understand how to find, develop and preserve regional tourism resources in Japan.
- (5) To re-consider own awareness of the issue and propose the action plans in own country.

### QUALIFICATION OF APPLICANT

Applicants should have a university degree or equivalent and be presently engaged in tourism planning and development at ministries and agencies. They also should have a sufficient command of written and spoken English (TOEFL 200 or equivalent), and be under thirty-five years old.

### LANGUAGE

English

### TRAINING INSTITUTIONS

Department du Commerce, de l'Industrie et du Trava

### JICA CENTER

Chugoku International Centre

### COOPERATION PERIOD

2001 ~ 2005

### REMARKS

Participants should be cooperative in Group Work.

### COURSE CONTENTS

The training curriculum is consisted of Group Work (Fieldwork, Workshop), Lectures and Observations.

In Group Work, participants actually research tourism spot and analyze the data they collected.

In Lectures and Observations, the curriculum is based on

- 1) sustainable tourism development,
- 2) tourism development and regional promotion,
- 3) tourism development and
- 4) tourism administrative policies in Japan and the method of finding and developing tourism resources and how to preserve regional environment.

## TOURISM PROMOTION & MARKETING

観光振興とマーケティング

May.6, 2003 ~ Jun.22, 2003 16participants J0303455

### OVERALL GOAL / PURPOSE

The purpose of this seminar is to furnish participants with skills and know-how to promote tourism in a sustainable manner in each of their countries.

### QUALIFICATION OF APPLICANT

- (1) currently engaged in tourism promotion activities in the governmental or other public tourism organizations with the occupational experience of more than three years,
- (2) under 40 years of age,
- (3) be active in participating in cross-cultural activities

### LANGUAGE

English

### COURSE CONTENTS

In this seminar, the following major subjects will be covered through lectures, discussions, presentation and observations.

- (1) Japanese tourism policy and related industries
- (2) concrete development methods for marketing and advertising for international tourism promotion
- (3) concrete development methods for marketing and advertising for domestic tourism promotion

### TRAINING INSTITUTIONS

JAPAN TRANSPORT COOPERATION ASSOCIATION

### JICA CENTER

Tokyo International Centre

### COOPERATION PERIOD

2000 ~ 2004

### REMARKS

## INTELLECTUAL PROPERTY RIGHTS

国際知的財産権

May.5, 2003 ~ Jul.27, 2003 10participants J0300705

### OVERALL GOAL / PURPOSE

This course is intended for specialists who are in a leading post to prepare and promote policies and measures for technology transfer and for protection of intellectual properties.

### QUALIFICATION OF APPLICANT

- 1) Senior administrators in charge of legislation of intellectual property rights or in charge of policy making, or in position of making technical suggestion in their fields with practical experience of at least 3 years in this field
- 2) Under 45 years of age

### LANGUAGE

English

### COURSE CONTENTS

This course consists of lectures, Tutorial studies and discussion including fainal symposium.

The main themes are:

- (1) outline of Japanese law
- (2) intellectual property rights system in general
- (3) legal practices concerning technology transfer
- (4) case study
- (5) symposium on intellectual property rights
- (6) tutorial instruction
- (7) IPR in Japan: Industrial Property Rights, Copyright Act, Unfair Competition Prevention Act

### TRAINING INSTITUTIONS

KYOTO COMPARATIVE LAW CENTER

### JICA CENTER

Osaka International Centre

### COOPERATION PERIOD

2000 ~ 2004

### REMARKS

A compulsory intensive Japanese language course will be conducted prior to the technical training for one week(25hours).

TRADE AND INVESTMENT PROMOTION SEMINAR(ASIAN COUNTRIES)	
貿易・投資促進実務(アジア)	
TARGET REGION: Asian countries	Apr.8, 2003 ~ May.22, 2003 11 participants J0300732
<b>OVERALL GOAL / PURPOSE</b>	<b>QUALIFICATION OF APPLICANT</b>
This training programme places particular emphasis on the acquisition of knowledge in the following areas: (1) Promotion of Manufacturing Industries (2) Trade (Export) Promotion (3) How to Invite Suitable Foreign Investors (4) Japanese Experiences and The Present Situation	(1) be under forty (40) years of age, (2) be officials belonging to governmental or semi-governmental organizations with more than five years of practical experience in the administration of trade or investment.
	<b>LANGUAGE</b>
	English
<b>COURSE CONTENTS</b>	<b>TRAINING INSTITUTIONS</b>
1. Promotion of Manufacturing Industries : History of Japanese Industrial Policy / Economic Development of Asian Countries / Support for Small and Medium Enterprises (SMEs) 2. Trade (Export) Promotion: WTO and International Economic Relationships / Standardization and Quality Control / Japanese Trade Promotion Efforts and Activities / Trade Insurance System / Japan as a Market 3. How to Invite Suitable Foreign Investment : Technology (Resources) Transfer to Recipient Countries and Ideal Conditions to Attract Investors / Economic Relationships - Asian Countries and Japan / Recent Trends in Japanese Overseas Direct Investments / Sogo Shosha - Its Roles 4. Country Report Presentation 5. Thesis Writing 6. Field Trip and Observation	WORLD TRADE CENTER TOKYO,INC.
	<b>JICA CENTER</b>
	Tokyo International Centre
	<b>COOPERATION PERIOD</b>
	2002 ~ 2006
	<b>REMARKS</b>

TRADE AND INVESTMENT PROMOTION SEMINAR(AFRICAN AND MIDDLE EASTERN COUNTRIES)	
貿易・投資促進実務(アフリカ・中近東)	
TARGET REGION: African and Middle Eastern countries	Sep.9, 2003 ~ Oct.23, 2003 10participants J0300733
<b>OVERALL GOAL / PURPOSE</b>	<b>QUALIFICATION OF APPLICANT</b>
This training programme places particular emphasis on the acquisition of knowledge in the following areas: (1) Promotion of Manufacturing Industries (2) Trade (Export) Promotion (3) How to Invite Suitable Foreign Investors (4) Japanese Experiences and The Present Situation	(1) be under forty (40) years of age, (2) be officials belonging to governmental or semi-governmental organizations with more than five years of practical experience in the administration of trade or investment.
	<b>LANGUAGE</b>
	English
<b>COURSE CONTENTS</b>	<b>TRAINING INSTITUTIONS</b>
1. Promotion of Manufacturing Industries : History of Japanese Industrial Policy / Economic Development of African and Middle Eastern Countries / Support for Small and Medium Enterprises (SMEs) 2. Trade (Export) Promotion: WTO and International Economic Relationships / Standardization and Quality Control / Japanese Trade Promotion Efforts and Activities / Trade Insurance System / Japan as a Market 3. How to Invite Suitable Foreign Investment : Technology (Resources) Transfer to Recipient Countries and Ideal Conditions to Attract Investors / Economic Relationships - African and Middle Eastern Countries and Japan / Recent Trends in Japanese Overseas Direct Investments / Sogo Shosha's Roles 4. Country Report Presentation 5. Thesis Writing 6. Field Trip and Observation	WORLD TRADE CENTER TOKYO,INC.
	<b>JICA CENTER</b>
	Tokyo International Centre
	<b>COOPERATION PERIOD</b>
	2002 ~ 2006
	<b>REMARKS</b>

TRADE AND INVESTMENT PROMOTION SEMINAR(LATIN AMERICAN COUNTRIES)	
貿易・投資促進実務(中南米)	
TARGET REGION: Latin American countries	Jun.17, 2003 ~ Jul.31, 2003 11participants J0300731
<b>OVERALL GOAL / PURPOSE</b>	<b>QUALIFICATION OF APPLICANT</b>
This training programme places particular emphasis on the acquisition of knowledge in the following areas: (1) Promotion of Manufacturing Industries (2) Trade (Export) Promotion (3) How to Invite Suitable Foreign Investors (4) Japanese Experiences and The Present Situation	(1) be under forty (40) years of age, (2) be officials belonging to governmental or semi-governmental organizations with more than five years of practical experience in the administration of trade or investment.
	<b>LANGUAGE</b>
	English
<b>COURSE CONTENTS</b>	<b>TRAINING INSTITUTIONS</b>
1. Promotion of Manufacturing Industries : History of Japanese Industrial Policy / Economic Development of Latin American Countries / Support for Small and Medium Enterprises (SMEs) 2. Trade (Export) Promotion: WTO and International Economic Relationships / Standardization and Quality Control / Japanese Trade Promotion Efforts and Activities / Trade Insurance System / Japan as a Market 3. How to Invite Suitable Foreign Investment : Technology (Resources) Transfer to Recipient Countries and Ideal Conditions to Attract Investors / Economic Relationships -Latin American Countries and Japan / Recent Trends in Japanese Overseas Direct Investments / Sogo Shosha - Its Roles 4. Country Report Presentation 5. Thesis Writing 6. Field Trip and Observation	WORLD TRADE CENTER TOKYO,INC.
	<b>JICA CENTER</b>
	Tokyo International Centre
	<b>COOPERATION PERIOD</b>
	2002 ~ 2006
	<b>REMARKS</b>



## FOREIGN TRADE DEVELOPMENT

貿易促進

May.26, 2003 ~ Aug.31, 2003 10 participants J0300208

### OVERALL GOAL / PURPOSE

The purpose of the course is to provide leading officers presently engaged in foreign trade administration with practical knowledge of Japanese market and various aspects of international transactions through lectures and observations (field trips). It is also intended to convey Japanese historical experience and trade practices in achieving economic development through trade promotion, thus assisting the participants to figure out effective measures toward promoting trade with Japan.

### QUALIFICATION OF APPLICANT

(1) be leading government officers who are currently in charge of foreign trade administration. (2) be univ. grad. and/or those who have equivalent practical experience of not less than three. (3) years in the field of foreign trade practice. (4) be proficient in spoken and written English. (5) 26-40 years of age.

### LANGUAGE

English

### COURSE CONTENTS

(1) Theoretical analysis of int'l economy (a) trend of int'l economy (b) int'l trade & economic development (c) the balance of payments & foreign exchange policy (d) trade, investment & int'l cooperation (e) development of Japanese economy (f) int'l logistics  
 (2) Practical analysis of Japanese market (a) structure & characteristics of Japanese market (b) behavior & attitude of Japanese consumer (c) methods of Japanese management (d) the role of Japanese trading firms (e) the role of Japanese small scale industries in trade development (f) case study on successful access to Japanese market  
 (3) Practical analysis on trade- supporting institutions (a) central & local governments (b) Japan External Trade Organization (c) The Chamber of Commerce & Industry (d) customs (e) financial institution  
 (4) Observation (a) leading, high tech., heavy & chemical, & traditional industries  
 (5) Others

### TRAINING INSTITUTIONS

KOBE INTERNATIONAL CENTER FOR CO., & COMMUNICATION

### JICA CENTER

Hyogo International Centre

### COOPERATION PERIOD

1994 ~ 2003

### REMARKS

A compulsory intensive Japanese language course will be conducted for 8 days prior to the technical training

## MANAGEMENT ON TRADE AND INVESTMENT INSURANCE

貿易保険制度運用

Sep.23, 2003 ~ Oct.22, 2003 10 participants J0300734

### OVERALL GOAL / PURPOSE

The purpose of this seminar is to facilitate each country's trade insurance system by providing training programs on trade insurance system and its management through presentation and demonstration to officials of governments and governmental organizations in charge of trade insurance system. The program places emphasis on helping participants, who are beginners or have no experience in the trade insurance business, to have the basic knowledge of trade insurance.

### QUALIFICATION OF APPLICANT

(1) officials of governments or governmental organizations in charge of planning and management of trade and investment insurance  
 (2) with more than three years of experience in the trade and investment insurance and  
 (3) with sufficient command of spoken and written English.

### LANGUAGE

English

### COURSE CONTENTS

This course mainly consists of lectures, discussions and field studies, and covers the following:  
 (1) the purpose, the role and the characteristics of Trade and Investment Insurance  
 (2) the outline of Trade and Investment Insurance System in Japan (risk management, short-term insurance, medium-to-long-term insurance, claims and recoveries, and others)  
 (3) the visits to the trade insurance related institutions and companies (4) Country Report Presentation

### TRAINING INSTITUTIONS

JAPAN TRADE AND INVESTMENT INSURANCE ORGANIZATION

### JICA CENTER

Tokyo International Centre

### COOPERATION PERIOD

2002 ~ 2006

### REMARKS

## ADMINISTRATION OF SECURITY EXPORT CONTROLS

輸出管理実務(アジア諸国)

TARGET REGION: East and Southeast Asia

Nov.11, 2003 ~ Dec.7, 2003 10 participants J0303425

### OVERALL GOAL / PURPOSE

Final objective is to promote Security Export Control system in Asian region by explaining the necessity of the system.  
 The Goal for this course are; (1) to enhance understanding of the items those are subject to export control and the reason for their control, and (2) to deepen knowledge of licensing officials to enhance effectiveness of export controls in each of the participating country.

### QUALIFICATION OF APPLICANT

(1) Government official related to licensing export applications.  
 (2) With at least 1 years of experience in this field.  
 (3) Must have at least B.A./B.S. or equivalent academic skills.  
 (4) Must be at least 25 years old, but no older than 55.

### LANGUAGE

English

### COURSE CONTENTS

For the purpose of this course, this course will introduce legal systems, procedures, and controlled items concerning Security Export Control to government officials concerned in this field.  
 (1) Non-proliferation and Overview of International Export Control Regimes  
 (2) Export Control System in Japan and other major countries (Legal Systems, Licensing practice, Enforcement)  
 (3) Explanations on controlled items  
 (4) Voluntary Export Control  
 (5) Field Trips (Customs, Factory, etc.)  
 (6) Discussions  
 -Outline and problem of the export controls in each participating country  
 -Future of export controls in Asian region

### TRAINING INSTITUTIONS

CENTER FOR INFORMATION ON SECURITY TRADE CONTROL

### JICA CENTER

Tokyo International Centre

### COOPERATION PERIOD

1999 ~ 2003

### REMARKS



***Agricultural/  
Rural Development***

〈農業開発／農村開発〉



MYCOTOXIN INSPECTION IN FOOD マイコトキシン検査技術	
Feb.2, 2004 ~ May.16, 2004 7 participants J0300683	
<b>OVERALL GOAL / PURPOSE</b>	<b>QUALIFICATION OF APPLICANT</b>
The purpose of the course is to enable the participants to understand the basic knowledge and techniques for the control and management of mycotoxins. After this course, they are expected to be able to apply them in their respective countries.	(1) technical officer or inspector presently engaged in food inspection (2) university graduate or equivalent with practical experience of not less than three years in the field of food inspection (3) not more than 35 years of age
<b>COURSE CONTENTS</b>	<b>LANGUAGE</b>
In this course, the emphasis is put on introduction of comprehensive knowledge of the following subjects through lecture, practice and field trip. LECTURES: (1) food sanitation law and food inspection (2) general view of mycotoxins (3) introduction to fungi (4) isolation and identification of fungi (5) <i>Aspergillus flavus</i> contamination of groundnuts and maize (6) <i>Fusarium</i> contamination of wheat and maize (7) sampling for mycotoxins (8) analysis of mycotoxins (9) control of mycotoxins (10) analysis of food preservatives. PRACTICES: (1) method of the isolation and identification of mycotoxins-producing fungi (2) analysis of mycotoxins such as aflatoxins and fusarium mycotoxins (3) analysis of food preservatives OBSERVATIONS and FIELD TRIPS: government and private food inspection organization, food processing factories	English
	<b>TRAINING INSTITUTIONS</b>
	KOBE INSTITUTE OF HEALTH
	<b>JICA CENTER</b>
	Hyogo International Centre
	<b>COOPERATION PERIOD</b>
	2000 ~ 2004
	<b>REMARKS</b>
	A compulsory intensive Japanese language course will be conducted prior to the technical training for 40 hours.

ASSURANCE OF FOOD SAFETY AND QUALITY CONTROL 食品の安全性確保	
Aug.18, 2003 ~ Dec.7, 2003 6 participants J0303410	
<b>OVERALL GOAL / PURPOSE</b>	<b>QUALIFICATION OF APPLICANT</b>
The course is designed: (1) to acquire inspection techniques, particularly analysis by instrument including knowledge on mycotoxin and main pathogenic microbes centering on such chemical substances as pesticide or food additives from agricultural products to food stuff, (2) to acquire techniques of quality control on ISO and HACCP systems and monitoring in food manufacturing factories, (3) to understand the International Law (WHO) on food hygiene from farm to table.	(1) technical specialists or researchers engaged in inspection of export and import food products and also in QC services in food manufacturing factories (2) experience of more than 2 years in the above fields (3) less than 35 years of age (4) university graduates or equivalents
<b>COURSE CONTENTS</b>	<b>LANGUAGE</b>
In this course, the emphasis is put on introduction of comprehensive knowledge on the following subjects through lectures, practice and field trip. Lectures: (1) Food Contaminant such as residual pesticide (2) Microbiological contamination such as mycotoxin or entero hemorrhagic E.Coli O157. (3) Techniques of quality control Practice: (1) Analysis of residual pesticide and residual by instrument (2) Detection method for mycotoxin, entero hemorrhagic E.Coli O157 Field trip: (1) Manufacturing factories adopting HACCP (2) Quarantine station, Plant protection station, customhouse	English
	<b>TRAINING INSTITUTIONS</b>
	KOBE INSTITUTE OF HEALTH
	<b>JICA CENTER</b>
	Hyogo International Centre
	<b>COOPERATION PERIOD</b>
	1999 ~ 2003
	<b>REMARKS</b>
	A compulsory intensive Japanese language course will be conducted prior to the technical training for 8 days.

FOOD PROCESSING AND PRESERVATION TECHNOLOGY II 食品加工・保全技術II	
TARGET REGION: Southeast Asia/ Indochina Jan.13, 2004 ~ Mar.20, 2004 7 participants J0303527	
<b>OVERALL GOAL / PURPOSE</b>	<b>QUALIFICATION OF APPLICANT</b>
For many developing countries, food products are compelled to lower its commercial value or be of disposed, due to improper processing technology or insufficiency of equipments. To make use of the resources effectively and produce foods with added value, this course aims to provide training on proper technologies on food processing and preservation based on proper food hygiene standards, through introducing the Japanese laws, systems, and technologies practiced in food industries.	(1) Be researchers/technical staffs of research institutes related to food processing/preservation (2) Be capable of conducting basic chemical experiments (3) Have a university degree or the equivalent in science course (4) Be over 25 and under 35 years of age as a general rule
<b>COURSE CONTENTS</b>	<b>LANGUAGE</b>
1. General training (1) Outline of Japanese food processing and preservation (2) Observation tours to institutes, plants, etc. 2. Individual training (Participants will be selected to join in one of following themes.) (1) Production techniques of useful metabolites by using jar-fermentor and others (2) Separation and development of yeast for brewing purposes (3) Manufacture and ingredient analysis of processed foods of agricultural products - such as rice, wheat, soy beans, etc. (4) Sterilization techniques for raw food materials and packed foods, and its application	English
	<b>TRAINING INSTITUTIONS</b>
	HIROSHIMA PREF. FOOD TECH. RESEARCH CENTER
	<b>JICA CENTER</b>
	Chugoku International Centre
	<b>COOPERATION PERIOD</b>
	2001 ~ 2005
	<b>REMARKS</b>
	This course is mainly targeted to countries of Southeast Asia and Indochina. The main food materials to be used are rice, wheat, beans, and fish.

MICROBIAL INSPECTION FOR FOOD SAFETY II 食品微生物検査技術II	
Jan.5, 2004 ~ May.16, 2004 6participants J0300808	
<b>OVERALL GOAL / PURPOSE</b>	<b>QUALIFICATION OF APPLICANT</b>
The course is designed to upgrade the technical skills of personnel who are currently engaged in food microbial control.	(1) research or technical officer presently engaged in food microbial control (2) University graduates and/or equivalents with occupational experience of more than three years in the field of food microbial control (3) be over twenty-six (26) and under thirty-five (35) years of age
<b>COURSE CONTENTS</b>	<b>LANGUAGE</b>
The emphasis is put on introduction of comprehensive knowledge on the following subjects through lecture, practice and field observations. Lec.(1w):(1) JPN food sanitation law(2) Microbial control(3) Enteropathogenic bacteria & their toxins(4) Putrefaction & spoilage(5) Fungi (6) Recent trend of regulation for marine & livestock products in JPN Practice(11w):A) Basic techniques (1) preparation of culture medium(2) staining microbes(3) viable count of bacteria(4) count of coliform, lactic acid bacteria B) procedures for the isolation & identification of pathogenic microbes related to food-poisoning (1) E.coli(2) S.aureus(3) pathogenic vibrios (V.parahaemolyticus, V. cholerae (4) Campylobacter (5)C.perfringens (6)C.botulinum (7)Listeria monocytogenes (8)B.cereus(9)fungi(10) aflatoxin. Obs. & field trips (3w): governmental or private food inspection org., food processing factories & brewery plants.	English
	<b>TRAINING INSTITUTIONS</b>
	KOBE INSTITUTE OF HEALTH
	<b>JICA CENTER</b>
	Hyogo International Centre
	<b>COOPERATION PERIOD</b>
	2003 ~ 2007
	<b>REMARKS</b>
	A compulsory intensive Japanese language course will be conducted prior to the technical training for 40 hours.

FOOD SANITATION ADMINISTRATION(AFRICAN COUNTRIES) 食品保健行政(アフリカ諸国)	
TARGET REGION: Sub-Saharan African countries Jan.20, 2004 ~ Mar.7, 2004 10participants J0303514	
<b>OVERALL GOAL / PURPOSE</b>	<b>QUALIFICATION OF APPLICANT</b>
This course is designed for technical officials in charge of food sanitation administration to learn comprehensive knowledge on food sanitation and health promotion measures to be taken consistently in production, processing, distribution and consumption stages, thus to help the developing countries to improve their public health conditions.	(1) be technical officials concerned with administration or projects related to food sanitation or health promotion in a national or local government organization and have more than 3 years of experience, (2) be over 25 and under 45 years of age.
<b>COURSE CONTENTS</b>	<b>LANGUAGE</b>
This seminar covers the following topics: (1)Lectures (a)Sapporo municipal administration outline (b)Food sanitation outlines (c)Food chemistry and food industry outlines (d)Nutrition outlines (2)Practices (a)Supervision and guidance (b)Food processing technologies (d)Bacteriological examinations, etc. (3)Study tours (a)Production sites (b)Food processing technologies (c)Food manufacturing facilities (c)Research institutions (d)Sapporo's municipal facilities concerning sanitation and others, and (4)Discussion & presentation	English
	<b>TRAINING INSTITUTIONS</b>
	HEALTH & SANITATION BUREAU, CITY OF SAPPORO
	<b>JICA CENTER</b>
	Hokkaido International Centre,Sapporo
	<b>COOPERATION PERIOD</b>
	2001 ~ 2005
	<b>REMARKS</b>

UTILIZATION AND PRESERVATION TECHNIQUES FOR AGRICULTURAL AND ANIMAL PRODUCTS 農畜産物の利用とその保蔵技術	
Feb.8, 2004 ~ Jul.4, 2004 5participants J0303518	
<b>OVERALL GOAL / PURPOSE</b>	<b>QUALIFICATION OF APPLICANT</b>
This course, targeting food processing technologists and researchers at educational and research institutions in developing countries, aims to nurture human resources in order to increase the value of food by maintaining their countries' agricultural and animal product quality and preventing the deterioration of health, through the acquisition of a series of processing and preservation techniques, ranging from scientific concepts of agricultural and animal products to hygienic food handling.	(1) A technologist or a researcher who is engaged in meat processing mainly or agricultural food processing factory and is presently involved in the planning of meat and agricultural food processing, (2) between 25 and 35 years of age, (3)In practicing, participants are expected to be able to handle and eat pork meat
<b>COURSE CONTENTS</b>	<b>LANGUAGE</b>
(1) Fattening of meat and animal, Slaughter and meat animal, Meat science, Meat hygiene, Processing techniques (2)Production and processing of agricultural, Processing techniques of milk products (3)Food packaging, materials and etc.	English
	<b>TRAINING INSTITUTIONS</b>
	OBIHIRO UNIV. OF AGRICULT. & VETERINARY MEDICINE
	<b>JICA CENTER</b>
	Hokkaido International Centre, Obihiro
	<b>COOPERATION PERIOD</b>
	2001 ~ 2005
	<b>REMARKS</b>
	Applicants without Job Report & Questionnaire to the Nomination Forms will not be duly considered. URL: <a href="http://www.jica.go.jp/branch/hico/index.html">http://www.jica.go.jp/branch/hico/index.html</a>

FOOD SAFETY CONTROL SYSTEM IN SUB-SAHARAN AFRICAN COUNTRIES 農畜水産食品の安全管理(サブサハラアフリカ諸国)	
TARGET REGION: Sub-Saharan African countries	Aug.5, 2003 ~ Sep.28, 2003 5 participants J0303486
<b>OVERALL GOAL / PURPOSE</b>	<b>QUALIFICATION OF APPLICANT</b>
This specially offered training course on Food Safety Control System is designed to allow the technical officials in charge of food safety control to learn comprehensive and practical knowledge on food safety control to be taken consistently in production, processing, distribution and consumption stages, thus to help the developing countries to improve their public health conditions.	Applicants should: (1) be technical officials concerned with administration or projects related to agricultural production, food processing, food distribution, public health or epidemiology in a national or local government or universities; (2) be over 25 and under 45 years of age.
	<b>LANGUAGE</b>
<b>COURSE CONTENTS</b>	English
	<b>TRAINING INSTITUTIONS</b>
Through the training programme, participants are expected to; (1) obtain basic knowledge concerning food safety control system, (2) obtain advanced techniques for food safety control system in Japan, (3) obtain knowledge of HACCP(Hazard Analysis, Critical Control Point), and (4) understand useful measures in their home countries.	RAKUNO GAKUEN UNIVERSITY
	<b>JICA CENTER</b>
	Hokkaido International Centre,Sapporo
	<b>COOPERATION PERIOD</b>
	2000 ~ 2004
	<b>REMARKS</b>

POST-HARVEST RICE PROCESSING II 米の収穫後処理技術II	
	Sep.2, 2003 ~ Nov.15, 2003 10 participants J0300772
<b>OVERALL GOAL / PURPOSE</b>	<b>QUALIFICATION OF APPLICANT</b>
The purpose of the course is to contribute to the planning, guidance and extension of technical improvement in this field in the government and public organizations of each country. It also aims to contribute to the improvement in effective processing technology and to prevent quantitative and qualitative losses by giving participants the knowledge and information on post-harvest rice processing in Japan, such as harvesting, drying, husking, grading, inspection, storage, milling, utilization of by-products, etc.	1. be senior technical administrator in government or public organizations engaged in planning and promoting the improvement of post-harvest rice processes (not be researcher, instructor or professor at university/not be Ph.D. holder) 2. be under 45 years of age 3. be university graduate
	<b>LANGUAGE</b>
<b>COURSE CONTENTS</b>	English
	<b>TRAINING INSTITUTIONS</b>
The following major subjects will be covered in the course. 1. rice production and marketing 2. characteristics of rice (indica and japonica subspecies) 3. harvesting, threshing and drying-machinery operation 4. storage-facility control and management 5. milling-machinery/equipment operation 6. quality control and inspection-system and testing equipment 7. utilization of by-products (husks, bran and broken)	JAPAN GRAIN INSPECTION ASSOCIATION
	<b>JICA CENTER</b>
	Tsukuba International Centre
	<b>COOPERATION PERIOD</b>
	2003 ~ 2007
	<b>REMARKS</b>

MANAGEMENT OF NATURAL RESOURCES AND AGRICULTURAL PRODUCTION BY GIS(GEOGRAPHIC INFORMATION SYSTEM) GIS(地理情報システム)による天然資源・農業生産物の管理	
	Aug.18, 2003 ~ Sep.22, 2003 5 participants J0303491
<b>OVERALL GOAL / PURPOSE</b>	<b>QUALIFICATION OF APPLICANT</b>
The participants are expected to have acquired knowledge of the following: (1)basic theory and techniques on GIS technology (2)basic techniques on how to manage natural resources and agricultural products by GIS (3)basic techniques about building a management system for natural resources and/or agricultural products based upon GIS	be in a position to disseminate basic knowledge on GIS,be beginners of GIS applications,be university staff/institute researchers in agricultural sciences engaged in teaching or research on sustainable management problems of natural resources or official engaged in policy-making for the above mentioned field with over 5 years of experience
	<b>LANGUAGE</b>
<b>COURSE CONTENTS</b>	English
	<b>TRAINING INSTITUTIONS</b>
(1)Introduction to GIS for sustainable management of natural resources and agricultural products (2)Basic Theory of GIS Structure of GIS,Concept of coordinate system,Practice: Basic operation of GIS (3)Construction of GIS system: Practice: Construction of GIS system (GRASS-Commands operation ) (4)Generation of GIS Data:Structure of GIS Data,Analysis of land environment by using GIS Data (5)Application of the GIS to natural resources management and agricultural products (6)Generation of evaluation maps for land utilization: Generation of GIS Data by GRASS, Analysis of GIS Data by GRASS (7)Application of Remote Sensing Data to GIS Data processing technology for Remote Sensing Data.Application of GPS to GIS (8)Visits and Observations	Nagoya Univ. Int'l Agric. Research Cooperation C.
	<b>JICA CENTER</b>
	Chubu International Centre
	<b>COOPERATION PERIOD</b>
	2000 ~ 2004
	<b>REMARKS</b>

**PLANT VARIETY PROTECTION(PLANT BREEDER'S RIGHTS)**

植物育成者権保護

Aug.12, 2003 ~ Oct.25, 2003 9participants J0303493

**OVERALL GOAL / PURPOSE**

The overall goal of the course is to contribute the establishment of the systems in order to protect the plant breeders' rights in each country and its operation.  
 (1) to understand the putline of plant variety protection (plant breeders' rights) system under UPOV  
 (2) to learn how to examine new plant varieties on application  
 (3) to learn how to set up test guidelines used for the examination

**QUALIFICATION OF APPLICANT**

(1) staff who is engaged or will be engaged in plant variety protection  
 (2) university graduate or equivalent with occupational experience  
 (3) between 30 and 45 years of age

**LANGUAGE**

English

**TRAINING INSTITUTIONS**

**JICA CENTER**

Tsukuba International Centre

**COOPERATION PERIOD**

2000 ~ 2004

**REMARKS**

**COURSE CONTENTS**

This course consists of lectures, practices, experiments and study tours.  
 It mainly covers:  
 1) outline of plant breeders' rights system  
 2) operation of plant breeders' rights system  
 3) examination methods of plant varieties  
 a) establishment of test guideline b) DUS test c) other related skills  
 4) other seeds related system  
 5) situation of plant varieties protection in participants' country  
 6) application of training in participants' own countries

**AGRICULTURAL INFORMATION SYSTEM TECHNIQUES**

農業情報システム

Jan.25, 2004 ~ Apr.25, 2004 8 participants J0303520

**OVERALL GOAL / PURPOSE**

This course is provided for engineers and extension workers who engage in agricultural extension activities. By giving lectures and observation tours on processing techniques of agricultural information (excluding management and market information) and on the framework and benefits of the network system as a communication means and by giving training sessions for data processing related to agricultural production, trainees proper information to farmers through the network systems constructed by them.

**QUALIFICATION OF APPLICANT**

(1) Engineers or extension workers who is engaged in agricultural extension activities with more than 3 years experience  
 (2) person who have mastered the basic computer operation and have considerable knowledge in processing information using spreadsheet software and have sufficient knowledge in programming

**LANGUAGE**

English

**TRAINING INSTITUTIONS**

FUJITSU HIGASHI-HOKKAIDO SYSTEMS ENG. LIMITED

**JICA CENTER**

Hokkaido International Centre, Obihiro

**COOPERATION PERIOD**

2001 ~ 2005

**REMARKS**

Applicants without Job Report & Questionnaire to the Nomination Forms will not be duly considered.  
 URL: <http://www.jica.go.jp/branch/hico/index.html>

**COURSE CONTENTS**

The following major subjects will be covered on the course;  
 (1) outline of agricultural related information processing : informaiton security and operation and mangement of systems, introduction of network system  
 (2) Exercise on : Excel, VBA and Access  
 (3) Guidance and practice on individual task

**AGRICULTURAL EXTENSION PLANNING AND MANAGEMENT**

農業普及企画管理者

May.6, 2003 ~ Jul.19, 2003 10 participants J0300648

**OVERALL GOAL / PURPOSE**

1. to understand the outline, principles of status of administration and management of extension services in Japan  
 2. to identify problems and tasks by analyzing the state of agricultural extension service in their own countries and Japan  
 3. to understand the basic concept of extension service to help them in planning and managing such service and practical training  
 4. to acquire the ability to improve extension personnel

**QUALIFICATION OF APPLICANT**

(1) be agricultural extension workers or subject-matter specialists who are engaged in training of extension workers  
 (2) have over 5 years experience  
 (3) be under 50 years old (4) be university graduate or have equivalent academic background

**LANGUAGE**

English

**TRAINING INSTITUTIONS**

Extension and Education Div.

**JICA CENTER**

Tsukuba International Centre

**COOPERATION PERIOD**

2000 ~ 2004

**REMARKS**

**COURSE CONTENTS**

The following subjects are included through lectures, discussions and observation tours  
 (1) Background of Extension Programs  
 (2) Outline of Agricultural Improvement and Extension Programs  
 (3) How to Proceed Extension Activities  
 (4) Education and Training of Extension Staff  
 (5) Application of the Training in their own countries

THE ROLE OF AGRICULTURAL COOPERATIVES TO BE PLAYED IN ACTIVATION OF RURAL ECONOMY	
農村経済活性化に果たす農協の役割 May.6, 2003 ~ Jul.6, 2003 13 participants J0300656	
<b>OVERALL GOAL / PURPOSE</b>	<b>QUALIFICATION OF APPLICANT</b>
This training course aims to help upgrade the capacity and abilities of middle-cadre government officers engaged in cooperative development by imparting them necessary knowledge and information on the role and functions of agricultural cooperative for the revitalization of rural community.	(1) university or professional school graduates who are now engaged in the offices of cooperative service (2) expected to work in the cooperative movement for more than five (5) years after their participation in the course (3) under forty-five (45) years of age
<b>COURSE CONTENTS</b>	<b>LANGUAGE</b>
This course consists mainly of lecture/discussion with more than 30% of its program being allocated to field trip. Main topics to be dealt with are; (1) ways to strengthen agricultural cooperative as well as to step up agricultural production through promoting formation of various members' voluntary groups including farm management group (2) cooperative activities for improvement of better living of member farmers and their families (3) method of performing democratic control, operation and management of agricultural cooperatives (4) method of formulating the long term perspective plans being drafted by agricultural cooperatives, and (5) ways to promote rural development with agricultural cooperatives.	English
	<b>TRAINING INSTITUTIONS</b>
	THE INST.FOR THE DEV'T OF AGRICULT'L COOP. IN ASIA
	JICA CENTER
	Hachioji International Centre
	<b>COOPERATION PERIOD</b>
	2000 ~ 2004
	<b>REMARKS</b>
AGROBIOTECHNOLOGY	
アグロバイオテクノロジー Mar.17, 2004 ~ Aug.10, 2004 8 participants J0300700	
<b>OVERALL GOAL / PURPOSE</b>	<b>QUALIFICATION OF APPLICANT</b>
The purpose of the course is to provide expert who majored in biotechnology and bioscience, mainly in the fields utilizing livestock, higher plants and microorganisms, in a university or the equivalents with fundamental and practical knowledge and techniques to make best use of bio-resources in the Agrobiotechnology (livestock, higher plants, microorganisms) field in which continuous technological innovations and higher applicabilities are expected in the near future.	(1) presently engaged in research work and have more than three years of occupational experience in this field (2) university graduates or equivalents (3) not less than 26 and not more than 35 years of age
<b>COURSE CONTENTS</b>	<b>LANGUAGE</b>
In this course, the emphasis is put on introduction of fundamental and practical knowledge on the following subjects through lectures, practices and study tours. (1) lectures: (a) general review of biotechnology, (b) clones and propagation of animals and plants, (c) gene mapping by molecular markers in breeding program of microorganisms, (d) stress response and cellular signal transduction, (e) genetic engineering, (f) screening of immunopotential activities in food components, (g) diagnostic analysis of pathogenic bacteria, (h) bioremediation of environmental contaminants by microorganisms and their screenings and genetic modifications (i) biodiversity, conservation and sustainable development. (2) laboratory works: corresponding to lectures (b)~(h). (3) observation tours: observation of institutes concerned with crop genes, application of microbial activities, etc.	English
	<b>TRAINING INSTITUTIONS</b>
	FACULTY OF AGRICULTURE, KOBE UNIVERSITY
	JICA CENTER
	Hyogo International Centre
	<b>COOPERATION PERIOD</b>
	2000 ~ 2004
	<b>REMARKS</b>
	A compulsory intensive Japanese language course will be conducted prior to the technical training for 40 hours.
OISCA FARMERS DEVELOPMENT TRAINING COURSE	
オイスカ農業者育成研修 TARGET REGION: Countries which have OISCA's overseas office Jan.19, 2004 ~ Dec.18, 2004 18 participants J0300724	
<b>OVERALL GOAL / PURPOSE</b>	<b>QUALIFICATION OF APPLICANT</b>
By the end of the training period, the participants are expected to be able to understand the techniques of rice cultivation, vegetable production, fruit production, land improvement, basic methods of land survey, and handling and daily care of agricultural machinery. This training course is focused on the acquirement of the specific skills or techniques rather than on obtaining lecture-oriented knowledge.	(1) Agricultural staff of public or non-governmental organizations, or those who are engaged in agriculture as progressive farmers with occupational experience of more than two years in their specialities (2) Between twenty(20) and thirty(30) years of age
<b>COURSE CONTENTS</b>	<b>LANGUAGE</b>
(1) Rice cultivation, (2) Vegetable production, (3) Fruit production, (4) Land improvement, (5) Basic methods of land survey, and (6) Handling and daily care of agricultural machinery.	Japanese
	<b>TRAINING INSTITUTIONS</b>
	OISCA
	JICA CENTER
	Chubu International Centre
	<b>COOPERATION PERIOD</b>
	2002 ~ 2006
	<b>REMARKS</b>
	Intensive Japanese Language Training 394 hours *As this training course is practiced in Japanese, it is essential to master Japanese conversation.



## IRRIGATION AND DRAINAGE FOR RURAL DEVELOPMENT

かんがい排水・農村開発

Feb.9, 2004 ~ Nov.19, 2004 11 participants J0300682

### OVERALL GOAL / PURPOSE

The purpose of this course is to introduce systematically scientific knowledge and technology of the irrigation and drainage schemes to irrigation and drainage engineers who are engaged in agricultural development works.

### QUALIFICATION OF APPLICANT

- (1) presently engaged in practical works in irrigation and drainage
- (2) university graduate or equivalent with occupational experience of more than five years in their field
- (3) between 25 and 35 years of age

### LANGUAGE

English

### TRAINING INSTITUTIONS

TSUKUBA INTERNATIONAL CENTRE, JICA

### JICA CENTER

Tsukuba International Centre

### COOPERATION PERIOD

2000 ~ 2004

### REMARKS

### COURSE CONTENTS

In this course, the emphasis is put on practices. The main practices are; (1) soil mechanics (2) hydraulics (3) concrete (4) irrigation water requirement (5) survey.

## OPERATION AND MANAGEMENT OF IRRIGATION CANAL SYSTEMS

かんがい用水システム運営管理

Jul.1, 2003 ~ Nov.28, 2003 8 participants J0303500

### OVERALL GOAL / PURPOSE

This training course is designed for irrigation engineers, particularly for those working for improving water use with existing irrigation facilities, so that they could enhance their knowledge and capabilities in operating and managing canal systems from the view point of efficient and equitable utilization of water resources for sustainable agricultural development in recipient countries.

### QUALIFICATION OF APPLICANT

1. be presently engaged in the task of irrigation water management and in principle have over 5 years of occupational experience in this field,
2. be 35 years of age or under,
3. be university graduates or have the equivalent academic background,

### LANGUAGE

English

### TRAINING INSTITUTIONS

TSUKUBA INTERNATIONAL CENTRE, JICA

### JICA CENTER

Tsukuba International Centre

### COOPERATION PERIOD

2001 ~ 2005

### REMARKS

### COURSE CONTENTS

The participants will be provided various practical information and knowledge through lectures, practices, and field trips and so on in order to achieve the course objectives.

1. Basic Technologies on Irrigation Water Management
2. Operation and Management of Water Resources and Canal Systems
3. Canal System Management
4. Formulation of Technical Report

## RICE RESEARCH TECHNIQUES II

稲研究II

Feb.3, 2004 ~ Nov.26, 2004 6 participants J0300771

### OVERALL GOAL / PURPOSE

The course is designed to introduce useful knowledge and new techniques in the field of rice to the participants and to enable them to master research methods.

### QUALIFICATION OF APPLICANT

1. presently engaging in the research work or education in the field of rice
2. university graduate or equivalent, and non Ph.D. holder
3. between 25 and 37 years of age, and having over 3 years' experience in above mentioned

### LANGUAGE

English

### COURSE CONTENTS

This course consists of three major components—lecture, experiment and field practice, and study tour.

#### CONTENTS

1. basic techniques for rice cultivation
2. basic theory and technology on rice breeding
3. experiment on participants' own subject

Above all, individual experiments are regarded as the utmost importance.

### TRAINING INSTITUTIONS

TSUKUBA INTERNATIONAL CENTRE, JICA

### JICA CENTER

Tsukuba International Centre

### COOPERATION PERIOD

1983 ~ 2007

### REMARKS

A compulsory intensive Japanese language course will be conducted prior to the technical training for two weeks (25 hours).

**EMBRYO TRANSFER TECHNOLOGY FOR DOMESTIC ANIMAL**

家畜受精卵移植技術

Feb.24, 2004 ~ May.30, 2004 8 participants J0300751

**OVERALL GOAL / PURPOSE**

The purpose of the course is to provide the latest ET technique in Japan for livestock breeding technician in countries faced with the necessity of it, and ultimately to contribute to the progress of animal industry by the application and improvement of the techniques under their respective countries condition. The course provides basic theory and practical of ET for bovine as well as its administration.

**QUALIFICATION OF APPLICANT**

Hold veterinarians license or artificial inseminators license, and have sufficient knowledge and at least 3 years practical experience in AI or ET for bovine.  
University graduate or equivalent academic background.  
Over 27 and under 40 years of age.  
Not pregnant.

**LANGUAGE**

English

**COURSE CONTENTS**

The course will consist mainly of lectures and practical training, in which the NLBC staff and visiting professionals will give expertise and instruction on the respective subjects. This will be supplemented by observation trips to the related agencies and institutions.

The subjects are as follows:

- (1) Outline of livestock industry
- (2) Reproductive physiology
- (3) Embryo transfer technology
- (4) Cryopreservation of embryos
- (5) Embryo transfer technology applications
- (6) ET-related technologies

**TRAINING INSTITUTIONS**

NATIONAL LIVESTOCK BREEDING CENTER

**JICA CENTER**

Nihonmatsu Training Centre(NTC)

**COOPERATION PERIOD**

2002 ~ 2006

**REMARKS**
**BREEDING AND ARTIFICIAL INSEMINATION TECHNOLOGY FOR CATTLE**

牛育種・人工授精技術

May.13, 2003 ~ Aug.10, 2003 8 participants J0300714

**OVERALL GOAL / PURPOSE**

The purpose of this course is to provide participants with basic knowledge and practical techniques coupled with the latest information on cattle breeding, know how of AI and its administration system and thus to assist them in designing their own systems in their respective countries.

**QUALIFICATION OF APPLICANT**

Be engaged in administration, research and/or extension works on livestock industry, holding veterinarians license or artificial inseminators license.  
University graduate or equivalent academic background and practical experiences.  
Under 40 years of age.  
Not pregnant.

**LANGUAGE**

English

**COURSE CONTENTS**

The course will consist mainly of lectures and practical training in which the NLBC staff and visiting professionals will give expertise and instruction on the respective subjects. This will be supplemented by observation trips to the related agencies and institutions.

The major subjects are as follows:

- (1) Outline of livestock industry
- (2) Cattle breeding
- (3) Artificial insemination and reproductive physiology
- (4) Reproduction management
- (5) Embryo transfer technology

**TRAINING INSTITUTIONS**

NATIONAL LIVESTOCK BREEDING CENTER

**JICA CENTER**

Nihonmatsu Training Centre(NTC)

**COOPERATION PERIOD**

2001 ~ 2005

**REMARKS**
**TECHNICAL TRAINING COURSE FOR DIAGNOSIS OF BOVINE SPONGIFORM ENCEPHALOPATHY**

牛海綿状脳症(BSE)診断技術研修

TARGET REGION: Asia

Nov.10, 2003 ~ Nov.21, 2003 8 participants J0300761

**OVERALL GOAL / PURPOSE**

The targets of the course are veterinarians who are presently engaging in the research activities on animal health. The course is conducted to become possible to make accurate diagnosis through the four way of BSE diagnosis techniques.

**QUALIFICATION OF APPLICANT**

(1) Presently engaging in the research activities on animal health (2) with 3 years of experience in relative field (3) over 25 years old and under 40 years old (4) graduated from university or with equivalent knowledge (5) with veterinary license

**LANGUAGE**

English

**COURSE CONTENTS**

- Lectures on animal health administration and BSE diagnosis
- Practical training by four type of BSE diagnosis techniques

**TRAINING INSTITUTIONS**

NATIONAL INSTITUTE OF ANIMAL HEALTH (NIAH)

**JICA CENTER**

Tsukuba International Centre

**COOPERATION PERIOD**

2003 ~

**REMARKS**



POULTRY PRODUCTION AND MANAGEMENT TECHNOLOGY 鶏飼養管理・生産技術	
Sep.2, 2003 ~ Dec.7, 2003 9 participants J0300826	
<b>OVERALL GOAL / PURPOSE</b>	<b>QUALIFICATION OF APPLICANT</b>
The purpose of this training course is to transfer the knowledge and technique concerning poultry to the technical officials who are in charge of poultry industry in their own countries. It should be particularly emphasized that the course will train leading technical experts who are in charge of improving poultry production and management.	Be engaged in administration, research and/or extension works on poultry industry, with working experience at least 3 years. University graduate or equivalent academic background. Under 45 years of age. Not pregnant.
<b>COURSE CONTENTS</b>	<b>LANGUAGE</b>
The course will consist mainly of lectures and practical training in which the NLBC staff and visiting professionals will give expertise and instruction on the respective subjects. This will be supplemented by observation trips to the related agencies and institutions. The major subjects are as follows; (1) Outline of livestock industry (2) Reproduction and Genetic Improvement (3) Nutrition and Feed (4) Feeding and Management (5) Health Control (6) Marketing (7) Planning Poultry Production and Management	English
	<b>TRAINING INSTITUTIONS</b>
	NATIONAL LIVESTOCK BREEDING CENTER
	<b>JICA CENTER</b>
	Nihonmatsu Training Centre(NTC)
	<b>COOPERATION PERIOD</b>
	2003 ~ 2007
	<b>REMARKS</b>

VETERINARY TECHNOLOGY FOR FARM ANIMALS 産業動物の獣医技術	
Sep.9, 2003 ~ Dec.14, 2003 6 participants J0303513	
<b>OVERALL GOAL / PURPOSE</b>	<b>QUALIFICATION OF APPLICANT</b>
This course is designed for veterinarians from developing countries to acquire knowledge and improve technical standards of emphasis on preventive health care, techniques for the diagnosis and treatment of animal diseases, guidance in food sanitation and hygiene and measures for the control of rabies and other virulent infectious diseases.	(1) be clinical veterinarians or veterinarians who work for central or local government and have more than 5 years of experience in this field; (2) be university graduates with a degree of veterinary medicine or equivalent; (3) be under 35 years of age.
<b>COURSE CONTENTS</b>	<b>LANGUAGE</b>
This course covers the following topics. (1)Lecture (a)Dairy and livestock farming in Hokkaido (b)Outline of veterinary system (c)Livestock raising and management (d)Internal medicine for animals, etc , (2)Practice (a)Dairy herd medical examination techniques and nutritional management guidance (b)Diagnosis of diseases, clinical examination and treatment (c)Surgical diagnosis, clinical examination and treatment of animals (d) Reproductive diagnosis, clinical examination and treatment of animals , and (3)Field Trip (a) Dairy farms near Sapporo (b)Horse breeding farms (c)Livestock clinics (d)Meat inspection office, etc	English
	<b>TRAINING INSTITUTIONS</b>
	HOKKAIDO VETERINARY MEDICAL ASSOCIATION
	<b>JICA CENTER</b>
	Hokkaido International Centre,Sapporo
	<b>COOPERATION PERIOD</b>
	2001 ~ 2005
	<b>REMARKS</b>

FORAGE CROPS PRODUCTION AND UTILIZATION 飼料作物生産・利用技術	
Mar.29, 2004 ~ Aug.8, 2004 6 participants J0303475	
<b>OVERALL GOAL / PURPOSE</b>	<b>QUALIFICATION OF APPLICANT</b>
The purpose of this course is to provide improved technologies relating to forage crops production and utilization, to participants from developing countries where sustainability in livestock farming is at stake. Participants are expected to acquire knowledge on advanced technology concerning forage crops production, processing and utilization including soil science, pastureland management, feed analysis and animal nutrition, through lectures and excursion study trip.	Be engaged in administration, research and/or extension works on forage and pasture production and/or management. With working experience above mentioned at least 3 years. Over 26 and under 40 years of age. Not pregnant. University graduate or equivalent academic background.
<b>COURSE CONTENTS</b>	<b>LANGUAGE</b>
The course covers various aspects of forage crops production and utilization. The major subjects are as follows; (1) Outline of livestock industry (2) Statistics for breeding and experiment (3) Soil science (4) Animal nutrition (5) Forage crops production and utilization technology (6) Feeding and management (7) Seed production	English
	<b>TRAINING INSTITUTIONS</b>
	NATIONAL LIVESTOCK BREEDING CENTER
	<b>JICA CENTER</b>
	Nihonmatsu Training Centre(NTC)
	<b>COOPERATION PERIOD</b>
	2000 ~ 2004
	<b>REMARKS</b>

**AGRICULTURAL MECHANIZATION FOR SUSTAINABLE FARMING SYSTEM**

持続型営農機械化システム

Feb.3, 2004 ~ Oct.31, 2004 12 participants J0303499

**OVERALL GOAL / PURPOSE**

Through the training program, participants are expected :  
 1. to deepen their knowledge on characteristics of mechanization and systems of mechanizations in Japan's rice production,  
 2. to master the mechanisms and operation of small farm machinery in Japan,  
 3. to be able to make a mechanization plan and its evaluation, and  
 4. to be able to carry out field performance tests of farm machinery and analyze the results before its introduction to their countries.

**QUALIFICATION OF APPLICANT**

Applicant should:  
 (1) be a government officer (administrative officer, agricultural engineer, agronomist) in charge of farm mechanization with occupational experience of more than three years,  
 (2) be a university graduate or the equivalent,  
 (3) be from 25 to 45 years of age

**LANGUAGE**

English

**COURSE CONTENTS**

The following major subjects will be covered in the course:  
 1. Farm mechanization;  
 Effective introduction of machinery (planning, inspection and selection), its utilization, systematic mechanized farming concerned with rice production and maintenance techniques for farm machinery.  
 2. Farm machinery;  
 Structure, operation and evaluation methods of farm machinery.  
 3. Subjects related to mechanization;  
 Rice cultivation, land improvement and cooperative use of farm machinery in Japan.

**TRAINING INSTITUTIONS**

**JICA CENTER**

Tsukuba International Centre

**COOPERATION PERIOD**

2001 ~ 2005

**REMARKS**

**IMPLEMENTAL TECHNOLOGY FOR HORTICULTURE IN PROTECTED ENVIRONMENT**

実践施設園芸技術

May.5, 2003 ~ Jul.27, 2003 5 participants J0300681

**OVERALL GOAL / PURPOSE**

Provide knowledge and information on plant production in protected environments, such as computer controlled greenhouses, in order to increase the production of specific cash crops in participating countries. The course introduces simple facilities and proper techniques which now draw much attention.

**QUALIFICATION OF APPLICANT**

(1) university graduates or the equivalent  
 (2) technicians or educators involved in government-sponsored research or education in the field of agricultural engineering or horticulture in a protected environment  
 (3) under 40 years of age  
 (4) more than 3 years of experience

**LANGUAGE**

English

**COURSE CONTENTS**

In this course, the following major subjects will be covered through lectures, discussions and observation trips:  
 (1) outline of horticulture institution  
 (2) basics of cultivation technique  
 (3) basics of computer technique  
 (4) information on botanical organisms  
 (5) economy and management of horticulture

**TRAINING INSTITUTIONS**

COLLEGE OF AGRICULTURE, OSAKA PREFECTURE UNIVERSITY

**JICA CENTER**

Osaka International Centre

**COOPERATION PERIOD**

2000 ~ 2004

**REMARKS**

**RESEARCH ON VETERINARY TECHNOLOGY**

獣医技術研究

Mar.23, 2004 ~ Oct.24, 2004 6 participants J0303431

**OVERALL GOAL / PURPOSE**

The targets of the course are veterinarians who are presently engaging in the research activities. The course is conducted with a view to nurture the researchers who can play leading role in development of the animal health technology which can contribute to promote the productivity of animal industry in their respective countries.

**QUALIFICATION OF APPLICANT**

(1) Presently engaging in the research activities on animal health  
 (2) with 5 years of experience in relative field  
 (3) over 25 years old and under 40 years years old  
 (4) graduated from university or with equivalent knowledge  
 (5) with veterinary license

**LANGUAGE**

English

**COURSE CONTENTS**

(1) General lectures on animal health technology and research methodology (14 days) including BSE diagnosis  
 (2) Field trips to the institutes and animal husbandry (10 days)  
 (3) Individual research training at the laboratories (5 months) (Subjects: Molecular, immunohistochemical and electron microscopical diagnoses, and epidemiological analysis on diseases of domestic animals)

**TRAINING INSTITUTIONS**

NATIONAL INSTITUTE OF ANIMAL HEALTH (NIAH)

**JICA CENTER**

Tsukuba International Centre

**COOPERATION PERIOD**

1999 ~ 2003

**REMARKS**

A compulsory intensive Japanese language course will be conducted prior to technical training for one weeks (25 hours).

SUSTAINABLE DAIRY FARMING SYSTEM AND RELATED TECHNIQUES 循環型酪農システム	
Aug.10, 2003 ~ Oct.30, 2003 7 participants J0300334	
<b>OVERALL GOAL / PURPOSE</b>	<b>QUALIFICATION OF APPLICANT</b>
To provide the principle and the significance of recycling-oriented dairy farming system which is an essential concept upon implementing dairy promotion in the developing countries. To develop human resources as well as researchers/technicians to be able to plan necessary policies to promote sustainable dairy farming by harmonizing with the environment, and to be able to promote recycling-oriented dairy farming system respectively, by obtaining knowledge and techniques below.	(1) administrative officer engaged in policy-making, university staff, institute researcher in the field of dairy farming, or director of extension staff of dairy farming techniques, (2) with sufficient knowledge of animal husbandry, (3) university graduates or equivalent, (4) be over twenty-five (25) and under forty (40) years of age
<b>COURSE CONTENTS</b>	<b>LANGUAGE</b>
This course consists of common subjects for all participants and elective specialized subjects. The followings are main items in common subjects. (1) Understand the principle and the significance of recycling-oriented dairy farming system. (2) Acquire knowledge and techniques of the following fields based on the principle of recycling-oriented dairy farming system. • Feed production and storage • Environmentally sound sustainable milk production • Sanitary management and disease prevention of dairy cattle • Ensuring safety of dairy products and the HACCP system • Recycling of organic livestock wastes	English
	<b>TRAINING INSTITUTIONS</b>
	OBIIHIRO UNIV. OF AGRICULT. & VETERINARY MEDICINE
	<b>JICA CENTER</b>
	Hokkaido International Centre, Obihiro
	<b>COOPERATION PERIOD</b>
	1987 ~ 2006
	<b>REMARKS</b>
	Applicants who don't attach their Job Report to the Nomination Forms will not be duly considered. URL: <a href="http://www.jica.go.jp/branch/hico/index.html">http://www.jica.go.jp/branch/hico/index.html</a>

ADVANCED STUDIES ON PROTOZOAN DISEASES 上級原虫病研究	
TARGET REGION: Asia, Africa and Latin America Nov.9, 2003 ~ Sep.5, 2004 10 participants J0303476	
<b>OVERALL GOAL / PURPOSE</b>	<b>QUALIFICATION OF APPLICANT</b>
The purpose of this course is to promote human resources in the research field of protozoan diseases in participation countries by improving the skills and the competence of participants who are primarily responsible to lay the foundation for the development control measures against the diseases in their respective countries.	(1) Bachelor of Science or Master of Science Degree in Biology, Zoology or of a related field, or a graduate of Veterinary Medicine or Medical Science. (2) Currently employed as a permanent member of either a private or public institution, and /or research laboratory of an agency. (3) More than 3 years of working experience
<b>COURSE CONTENTS</b>	<b>LANGUAGE</b>
This course mainly covers the following themes. After lectures of common subjects, all participants are attached to one of the most fitted research laboratory such as the following fields in accordance with the purpose and specialty of each participant. (1) research field of structure and function of protozoan genome (2) research field of hemoprotozoan and related infections (3) research field of African trypanosomiasis (4) research field of molecular and cellular immunology against coccidiosis (5) research field of molecular vector-arthropodology *This course is for Researcher or faculty member of University.	English
	<b>TRAINING INSTITUTIONS</b>
	OBIIHIRO UNIV. OF AGRI. & VET. MED., RESEARCH CENTER
	<b>JICA CENTER</b>
	Hokkaido International Centre, Obihiro
	<b>COOPERATION PERIOD</b>
	2000 ~ 2004
	<b>REMARKS</b>
	Applicants without Job Report & Questionnaire to the Nomination Forms will not be duly considered. URL: <a href="http://www.jica.go.jp/branch/hico/index.html">http://www.jica.go.jp/branch/hico/index.html</a>

SUSTAINABLE USE OF PLANT GENETIC RESOURCES 植物遺伝資源の持続的利用	
May.6, 2003 ~ Nov.2, 2003 4 participants J0300770	
<b>OVERALL GOAL / PURPOSE</b>	<b>QUALIFICATION OF APPLICANT</b>
This course is designed to contribute to upgrading knowledge and techniques of the researchers in the field of plant genetic resources, so as to train participants capable of playing leadership roles in plant genetic resources' exploration, collection, conservation, management, evaluation, and especially in utilization for sustainable use of plant genetic resources in their own countries.	(1) university graduate or equivalent non Ph. D. holder (2) presently engaged in research work in the field of plant genetic resources with more than three years of experience (3) over 25 and under 35 years of age
<b>COURSE CONTENTS</b>	<b>LANGUAGE</b>
This course consists of common subjects (lecture, observation, discussion) for all participants and individual training (special research training / 4 months) in the laboratory. Each participant is to take one of the following subjects for their special research training; (1) Characterizations of Perilla spp. by AFLP technique (2) Characterizations of agro-morphological traits of underutilized crops (3) DNA Sequencing of Oryza species for comparative genomics (4) Genotyping of rice varieties using microsatellites (5) Evaluation of legume genetic resources (6) Genetic diversity of rice germplasm analyzed by esterase isozymes (7) Molecular analysis of wild crop relatives in the genera Vigna or Oryza (8) Characterization of wild crop relatives in the genera Vigna or Oryza	English
	<b>TRAINING INSTITUTIONS</b>
	National Institute of Agrobiological Sciences
	<b>JICA CENTER</b>
	Tsukuba International Centre
	<b>COOPERATION PERIOD</b>
	2003 ~ 2007
	<b>REMARKS</b>
	Including an intensive Japanese language class (25 hours)

**PLANT QUARANTINE(THERMAL TREATMENT FOR THE DISINFESTATION OF FRUIT FLIES) II**

植物検疫(ミバエ類殺虫技術)II

May.27, 2003 ~ Sep.11, 2003 5 participants J0300824

<b>OVERALL GOAL / PURPOSE</b>	<b>QUALIFICATION OF APPLICANT</b>
The course is designed to introduce the advanced technique (Thermal Treatment) required for disinfection of fruit flies to the participants who are engaged in plant quarantine. It is also hoped that this course will ultimately contribute to the promotion of fruit and vegetable exports.	(1) presently engaged in the plant quarantine treatments (vapor heat, cold treatment, etc.) (2) university graduate or equivalent (3) experiences in plant quarantine works and sufficient knowledge (4) under 41 years of age
<b>COURSE CONTENTS</b>	<b>LANGUAGE</b>
This course consists of lectures, workshop practice and field observation, trips. The main themes are: (1) Plant quarantine in Japan (2) Morphology and taxonomy of fruit flies (3) Physiology and ecology of fruit flies (4) Artificial rearing of fruit flies (5) Disinfection method of fruit flies (outline) (6) Disinfection test by vapor heat treatment and cold treatment (7) Injury test of fruits by vapor heat treatment and cold treatment (8) Report Making	English
	<b>TRAINING INSTITUTIONS</b>
	NAHA PLANT PROTECTION STATION, MIN. OF AGRICULTURE
	<b>JICA CENTER</b>
	Okinawa International Centre
	<b>COOPERATION PERIOD</b>
	2003 ~ 2007
	<b>REMARKS</b>

**INTEGRATED PEST MANAGEMENT FOR PLANT PROTECTION II**

植物保護のための総合防除II

May.26, 2003 ~ Sep.7, 2003 7 participants J0300810

<b>OVERALL GOAL / PURPOSE</b>	<b>QUALIFICATION OF APPLICANT</b>
(1) Carry out basic and/or practical research on plant protection in their own countries, (2) Devise and carry out an effective integrated control program of pests management in their own countries, (3) Teach the knowledge and technologies obtained to other staffs in their own countries.	(1) technical official presently in charge of plant protection in government or in local bodies or college staffs with three years or more experience in this field; (2) be above 25 and under 35 years of age
<b>COURSE CONTENTS</b>	<b>LANGUAGE</b>
Lecture: (1)Vulnerable Earth and Needs for Integrated Pest Management for Sustainable Society and Environment(2)Basic Technology for Molecular Biology(3)Recent Advances in Insect Science(4)Recent Advances in Plant Pathology(5)Principles of Agrochemicals' Mode of Action and Environmental Toxicology(6)Biological Control of Arthropod Pests(7)GMOs; potentials and problems(8)Consequences of Global Warming and Accelerated Trades and Traffic (9)Plant-Arthropod-Microbe Interactions(10)Weed Control(11) Chemical and Genetic Manipulations of Arthropod Behavior(12)Trends in World Population and Food Supply(13)Post Harvest Problems(14) Current Problems and Future Directions in Implementation of Integrated Management of Arthropod Pests and Diseases (Discussion)(15)Conservation of Biosphere and Bio-diversity: A Role of Agroecosystem(16)Waste Management and Recycle System of Resources Laboratory works to understand basic problems in plant protection	English
	<b>TRAINING INSTITUTIONS</b>
	FACULTY OF AGRICULTURE, KOBE UNIVERSITY
	<b>JICA CENTER</b>
	Hyogo International Centre
	<b>COOPERATION PERIOD</b>
	2003 ~ 2007
	<b>REMARKS</b>
	A compulsory intensive Japanese language course will be conducted prior to the technical training for 8 days (40 hours).

**AT FARM-LEVEL DETECTION OF PATHOGENS FOR FOOD ANIMALS**

畜水産生産現場における病原体検査技術

Sep.8, 2003 ~ Feb.29, 2004 6 participants J0300800

<b>OVERALL GOAL / PURPOSE</b>	<b>QUALIFICATION OF APPLICANT</b>
In the interest of food hygiene, hygienic management to ensure the safety of animals (livestock and poultry) as a food source has become an urgent priority worldwide. As a result, conventional systems for hygienic testing of livestock and poultry are being fundamentally revised and new technology developed. In the present course, Japanese latest hygienic management technology for food animals will be introduced to participants from developing countries with the aim of raising technical standards.	Applicants should: (1) be technicians with at least 3 years experience and currently active in research or routine operations in the field (2) be qualified as veterinary surgeons or livestock or poultry inspectors (3) be no more than 35 years old
<b>COURSE CONTENTS</b>	<b>LANGUAGE</b>
The course will focus on basic training and especially on practical training. (1) Basic training: parasite testing technology, virus diagnostic technology, pathological testing technology, immunology. Serological testing technology, bacterial testing technology, theory and practice of clinical diagnostic technology (2) Applied training: field observation of livestock and poultry hygienic testing to gain an overall understanding; understanding of field conditions for basic operations (3) General training: (a) lecture on hygiene management theory including HACCP (hazard analysis critical control points) (b) observation of farms and food processing factories in view of the latest theory that ensuring the safety of food animals is a continuous task which must be enforced from farmyard to dinner table (c) elaboration of a comprehensive hygiene management system.	English
	<b>TRAINING INSTITUTIONS</b>
	COLLEGE OF AGRICULTURE, OSAKA PREFECTURE UNIVERSITY
	<b>JICA CENTER</b>
	Osaka International Centre
	<b>COOPERATION PERIOD</b>
	2003 ~ 2007
	<b>REMARKS</b>

SOIL DIAGNOSIS AND ENVIRONMENTAL CONSERVATION 土壌診断環境保全	
May.18, 2003 ~ Aug.10, 2003 7 participants J0300595	
<b>OVERALL GOAL / PURPOSE</b>	<b>QUALIFICATION OF APPLICANT</b>
The course is designed for technical officers who are in charge of soil improvement by providing basic and practical knowledge related to soil diagnosis, soil improvement and agricultural environment management to achieve higher food production, and to contribute to environmental friendly agriculture.	(1) presently engaged in soil diagnosis, which can contribute for environment-friendly agriculture production and have more than 2 years experiences (2) university graduates or equivalent (3) over 25 and under 40 years of age (4) proficient in spoken and written English
<b>COURSE CONTENTS</b>	<b>LANGUAGE</b>
(1) outline of agriculture in Japan (2) general concepts and methods of soil diagnosis for environment-friendly agriculture a) outline of soil diagnosis b) soil analysis method for chemical properties c) soil analysis method for physical properties (3) general concepts and methods of suitable management for environment-friendly agriculture a) analysis of water quality b) analysis of heavy metals in soil	English
	<b>TRAINING INSTITUTIONS</b>
	CITY OF OBIHIRO
	<b>JICA CENTER</b>
	Hokkaido International Centre, Obihiro
	<b>COOPERATION PERIOD</b>
	1999 ~ 2003
	<b>REMARKS</b>
	Applicants without Job Report & Questionnaire to the Nomination Forms will not be duly considered. URL: <a href="http://www.jica.go.jp/branch/hico/index.html">http://www.jica.go.jp/branch/hico/index.html</a>

SUSTAINABLE UTILIZATION OF TROPICAL AGRICULTURE AND FORESTRY RESOURCES(PRODUCTION AND POSTHARVEST) 熱帯農林資源の持続的利用(熱帯・亜熱帯の植物生産とポストハーベスト)	
TARGET REGION: Tropic or Sub-tropic area Apr.15, 2003 ~ Jul.20, 2003 5 participants J0300326	
<b>OVERALL GOAL / PURPOSE</b>	<b>QUALIFICATION OF APPLICANT</b>
The purpose of the course is to introduce the researchers to the concept, research methodologies and techniques concerning effective production and sustainable utilization of biological resources (mainly plants and forestry) in the tropics.	(1) Experiences in basic statistics and PC (Word, Excel, Power Point) (2) Presently engaged in research work (3) University graduate or equivalent (4) Under 35 years of age
<b>COURSE CONTENTS</b>	<b>LANGUAGE</b>
The course consists of lectures, discussions, laboratory work, data analysis, and observation tours. (1) Water management of field/plants (2) Prevention of disease and insect of plants (3) Biological production and management in forest stand (4) Prevention of plants after harvest *Data analysis used to basic statistics	English
	<b>TRAINING INSTITUTIONS</b>
	FACULTY OF AGRICULTURE, UNIVERSITY OF THE RYUKYUS
	<b>JICA CENTER</b>
	Okinawa International Centre
	<b>COOPERATION PERIOD</b>
	1984 ~ 2004
	<b>REMARKS</b>
	Special required: ability of basic statistics

FARM MACHINERY TESTING FOR FARM MECHANIZATION 農業機械評価試験	
Mar.23, 2004 ~ Jun.20, 2004 8 participants J0303473	
<b>OVERALL GOAL / PURPOSE</b>	<b>QUALIFICATION OF APPLICANT</b>
The purpose of this course is to systematically introduce the knowledge and techniques required for the testing and evaluation of farm machinery. By the end of the training period, the participants are expected to be able to: 1. use test equipment/facilities and understand testing and evaluating technologies. 2. set up and manage an official farm machinery testing system with a view to promoting the utilization of farm machinery.	1. university graduate in agricultural engineering or mechanical engineering 2. test engineer or qualified engineer in testing of farm machinery with experience of more than three years 3. between 25 and 50 years of age
<b>COURSE CONTENTS</b>	<b>LANGUAGE</b>
In this course, the emphasis is put on the actual testing and evaluating methodology of farm machinery. The actual testing practices are conducted under the authorized testing cord. The main themes are: (1) testing and evaluation of farm machines to determine the performance characteristics, rate of work, durability, safety, ease of operation (2) testing and evaluation method in laboratory and field (3) accurate utilization of testing and measuring instruments (4) data acquisition, data processing and data analyzing by micro-computer (5) farm machinery testing system and administration (6) farm mechanization features (7) study tour to university, research institutes and farm machinery manufacturing companies.	English
	<b>TRAINING INSTITUTIONS</b>
	BIO-ORIENTED TECH. RESEARCH ADVANCE. INSTITUTION
	<b>JICA CENTER</b>
	Tsukuba International Centre
	<b>COOPERATION PERIOD</b>
	2000 ~ 2004
	<b>REMARKS</b>
	A compulsory intensive Japanese language course is conducted prior to the technical training for 7 days (35 hours).



## INTRODUCE GENE MANIPULATION AND BIOINFORMATICS FOR AGRICULTURE

農業生産のための遺伝子操作技術とバイオインフォマティクスコース

Aug.11, 2003 ~ Dec.14, 2003 8 participants J0300799

### OVERALL GOAL / PURPOSE

In the developing countries, the application of biotechnological methods to the plant agricultural sector is expected to be a solution to the many problems currently faced in this area. Through lectures and laboratory practice, course participants will learn the basics of gene manipulation technique and study agrobacterium-based technology for selective breeding of plant cells.

### QUALIFICATION OF APPLICANT

(1) university graduate or equivalent (except Ph.D. holder in genetic engineering) (2) researchers engaged in the field of agricultural products, and employees of governmental organizations in agricultural research (3) have experience of the handling and culture of microorganisms (4) under 35 years of age

### LANGUAGE

English

### COURSE CONTENTS

In this course, the emphasis is put on laboratory experiments. The main themes are:  
 (1) culture of microorganisms  
 (2) nucleic acid extraction and separation techniques  
 (3) protein purification and antibody production  
 (4) electrophoresis techniques of nucleic acid and proteins  
 (5) transformation methods  
 (6) DNA enzyme treatment techniques  
 (7) detection and identification techniques for transformed products  
 (8) DNA amplification by the PCR method  
 (9) sequence analyses of nucleic acid and protein

### TRAINING INSTITUTIONS

COLLEGE OF AGRICULTURE, OSAKA PREFECTURE UNIVERSITY

### JICA CENTER

Osaka International Centre

### COOPERATION PERIOD

2003 ~ 2007

### REMARKS

## SUSTAINABLE WATER RESOURCES DEVELOPMENT ON AGRICULTURAL AND RURAL AREA

農業農村における持続的な水資源開発

May 19, 2003 ~ Aug. 2, 2003 16 participants J0300755

### OVERALL GOAL / PURPOSE

The group training course on "Sustainable Water Resources development on Agricultural and Rural Area" is designed to promote the capacity building of personnel concerning irrigation development project and its administration. In this course, subjects on survey, planning implementation, operation and maintenance and water management from the view point of irrigation development will be dealt with so that the participants they can enhance their knowledge in designing and management of irrigation project.

### QUALIFICATION OF APPLICANT

administrative leaders who have at least 7 years experiences or JICA counterparts who have at least 5 years experiences in irrigation development

### LANGUAGE

English

### COURSE CONTENTS

(1) to understand the background on agriculture, irrigation and water resources development in Japan,  
 (2) to understand the trend and direction on Japanese overseas technical cooperation in the field of agriculture, irrigation and water resources development,  
 (3) to understand the procedure of irrigation development project in Japan and acquire the information on survey, planning, implementation and management of irrigation development project in Japan.  
 (4) to understand the concept of Participatory Irrigation Management for the purpose of effective water resources usage,  
 (5) to analyze the problem on respective countries in terms of irrigation development and to present the action plan for project management in the future.

### TRAINING INSTITUTIONS

JAPANESE INSTITUTE OF IRRIGATION AND DRAINAGE

### JICA CENTER

Tsukuba International Centre

### COOPERATION PERIOD

2002 ~ 2006

### REMARKS

## APPLICATION OF NEW TECHNOLOGY TO FARM MECHANIZATION

畑作機械化手法

Jun.29, 2003 ~ Oct.12, 2003 7 participants J0303450

### OVERALL GOAL / PURPOSE

This course aims to provide human resources through lessons on the latest control technology for agricultural machinery so that they will be able to introduce and improve such machinery based on regional characteristics.

### QUALIFICATION OF APPLICANT

(1) researcher, educational instructor and engineer engaged in improvement, development and research activities of farm machinery (excluding paddy farming)  
 (2) have knowledge and ability concerning farm machinery, computer programming and usage, and experience of farm machine operation

### LANGUAGE

English

### COURSE CONTENTS

This course mainly covers the following themes.  
 (1) Basic knowledge of automation technology  
 (2) Control by programmable controller of relay circuits and sequence control  
 (3) Principle and practice method of pneumatic actuator  
 (4) Basic knowledge of hydraulic machinery  
 (5) Essential optical techniques for sensor utilization  
 (6) Evaluation and test of agriculture machine  
 (7) Microcomputer I, II

### TRAINING INSTITUTIONS

OBIIHIRO CITY INDUSTRIAL TECHNOLOGY CENTER

### JICA CENTER

Hokkaido International Centre, Obihiro

### COOPERATION PERIOD

2000 ~ 2004

### REMARKS

Applicants without Job Report & Questionnaire to the Nomination Forms will not be duly considered.  
 URL: <http://www.jica.go.jp/branch/hico/index.html>

## AGRICULTURAL INFRASTRUCTURE IMPROVEMENT IN UPLAND CROPS AREA

畑地帯における農業開発

Jun.1, 2003 ~ Aug.23, 2003 5 participants J0300605

### OVERALL GOAL / PURPOSE

This course is intended to improve knowledge and skills in general surveying, planning, designing and construction management for land improvement projects for dry fields, by focusing on actual cases of land improvement projects (irrigation, drainage, agricultural land improvement, disaster prevention) implemented for dry fields in Japan, particularly in the Tokachi region.

### QUALIFICATION OF APPLICANT

- (1) be technical engineers with expertise in agricultural improvement projects, especially in irrigation and drainage systems for upland farming
- (2) have more than three years of practical experience
- (3) be at least 25 and no more than 45 years of age

### LANGUAGE

English

### COURSE CONTENTS

Through the training programme, participants are expected to obtain: knowledges and technical skills through the lectures and observations in general surveying, planning designing and construction management for land improvement (irrigation, drainage, agricultural land improvement, disaster prevention)

### TRAINING INSTITUTIONS

NORTHERN REGIONS CENTER

### JICA CENTER

Hokkaido International Centre, Obihiro

### COOPERATION PERIOD

1999 ~ 2003

### REMARKS

Applicants who don't attach their Job Report to the Nomination Forms will not be duly considered.  
URL: <http://www.jica.go.jp/branch/hico/index.html>

## UPLAND FARMING MANAGEMENT

畑地帯農業管理

Jun.8, 2003 ~ Aug.10, 2003 10 participants J0300726

### OVERALL GOAL / PURPOSE

The Tokachi region is one of Japan's leading large-scale upland crop areas. Participants of this course will learn the farming management techniques used in Tokachi for wheat, sugar beets, potatoes and beans, which are the major crops in Tokachi region, by systematically introducing a case of upland farming, collaborating with central government, regional governments, various organizations (e.g., agricultural cooperatives) and producers.

### QUALIFICATION OF APPLICANT

- (1) regional government or local public officer engaged in extension service and in the leading position in the regional agriculture, providing guidance on farm management of field crops directly to farm households
- (2) middle-ranked leading extension service officer providing technical support and guidance to regional agriculture
- (3) age: 30-45

### LANGUAGE

English

### COURSE CONTENTS

During this course, participants should acquire the following:  
(1) An understanding of the soil improvement, disease/insect damage control methods, and the necessity for environmental considerations in crop production,  
(2) An understanding of the necessity of growth surveys on crops, and an acquirement of the techniques ensuring high-yielding ability of crops and harvesting crops in optimal condition,  
(3) An understanding of methods for collecting and shipping harvested crops, as well as of the necessity for distribution systems, and  
(4) An understanding of knowledge how to establish dissemination systems of the techniques mentioned above for farm households.

### TRAINING INSTITUTIONS

CITY OF OBIHIRO

### JICA CENTER

Hokkaido International Centre, Obihiro

### COOPERATION PERIOD

2002 ~ 2006

### REMARKS

Applicants without Job Report & Questionnaire to the Nomination Forms will not be duly considered.  
URL: <http://www.jica.go.jp/branch/hico/index.html>

## VEGETABLE CULTIVATION TECHNOLOGY

野菜栽培技術

Feb.8, 2004 ~ Nov.12, 2004 9 participants J0300631

### OVERALL GOAL / PURPOSE

The purpose of this course is to provide those who are presently engaged in vegetable production (such as researchers, training instructors or extension officers) with knowledge and technology related to practical vegetable cultivation in Japan through lectures, experiments, practice, and observation, thereby helping them to promote vegetable production in their respective countries.

### QUALIFICATION OF APPLICANT

- Applicants should be
- 1) presently engaged in vegetable production as researcher, training instructor or extension officer,
  - 2) university graduates or diploma holders with the occupational experience of more than 3 years in their speciality,
  - 3) no doctorate holder
  - 4) between 25 and 40 age.

### LANGUAGE

English

### COURSE CONTENTS

Through the training programme, participants are expected to acquire knowledge and skills in the following:  
(1) vegetable cultivation technology for high yield and quality,  
(2) vegetable seed production technology,  
(3) technology of vegetable production in sustainable agriculture,  
(4) socio-economics in vegetable production,  
(5) experiments, report making, and presentation. This course consists of lectures, experiments, practices and observations in study tour. Their proportion are set 1:2:1. Participants will learn the knowledge of vegetable cultivation by lectures, get its technology by experiments and practices and understand practical condition by observations. In addition, group experiments will be conducted by the participants, in order to apply the gotten technology for their countries and to develop the ability of analyzing its result and making report.

### TRAINING INSTITUTIONS

TSUKUBA INTERNATIONAL CENTRE, JICA

### JICA CENTER

Tsukuba International Centre

### COOPERATION PERIOD

1999 ~ 2003

### REMARKS

Including an intensive Japanese language class (30hours)



JICA-NGO PARTNERSHIP TRAINING COURSE FOR PARTICIPATORY RURAL DEVELOPMENT	
NGOとの連携による参加型村落開発	
Oct.27, 2003 ~ Nov.30, 2003 10 participants J0300805	
<b>OVERALL GOAL / PURPOSE</b>	<b>QUALIFICATION OF APPLICANT</b>
This course is conducted under the equal-partnership of Kansai NGO Council and Osaka International Centre, JICA. The first phase of the course has successfully accomplished its objective to build close relations between Government and non-Government organizations in community development. This is the second phase of the course to set its goal to share ideas and methods practically applied in implementing or implemented Projects among the overseas participants from NGOs and GOs as well as Japanese NGOs and JICA.	(1) In a leadership position of national/local NGOs or GO officers closely working with such NGOs (2) Presently or scheduled to be engaging in community development projects (3) Between 27 and 45 years of age (4) At least three years of field experience (5) have good command of English
	<b>LANGUAGE</b>
	English
<b>COURSE CONTENTS</b>	<b>TRAINING INSTITUTIONS</b>
The course is discussion-oriented by participatory methodology to share experiences and idea among the participants. Module 1, Introduction: Ice breaking, Introducing to Japan and history, present situation and problem of community development in Japan including excursion. Module 2, Experience sharing; Sharing idea and method of community development practically applied in implementing or implemented Projects among the overseas participants as well as Japanese NGOs and JICA. Module 3, Excursion: planned to visit Hiroshima to share A-bomb experiences Module 4, Case study: case study on participants' projects Module 5, Future action: developing an future "Action Plan" and share among the participants *Participants include Japanese NGO and JICA staff members	KANSAI NGO COUNCIL
	<b>JICA CENTER</b>
	Osaka International Centre
	<b>COOPERATION PERIOD</b>
	2003 ~ 2007
	<b>REMARKS</b>
	A candidate who is presently working with Japanese NGO (preferably a member of Kansai NGO Council) or JICA has a priority to participate in the Course.

INTEGRATED AGRI.& RURAL DEV'T THROUGH THE PARTICIPATION OF LOCAL FARMERS II	
農民参加による農業農村開発II	
Jul.1, 2003 ~ Aug.10, 2003 9 participants J0303511	
<b>OVERALL GOAL / PURPOSE</b>	<b>QUALIFICATION OF APPLICANT</b>
This group training course in Integrated Agriculture and Rural Development through the Participation of Local Farmers is designed for central and local government staff to acquire knowledge as follows, 1) Revitalisation of agricultural village, 2) Integrated method of improvement for forcing village to develop healthy, 3) Drawing up a sustainable plan of land improvement in rural village, and 4) Suitable development with participation of local farmers.	(1) be engaged in the field of agricultural and rural development and have more than ten(10) years of experience; (2) be university graduates or equivalent; (3) under fifty (50) years of age;
	<b>LANGUAGE</b>
	English
<b>COURSE CONTENTS</b>	<b>TRAINING INSTITUTIONS</b>
Through the training course, participants are expected to obtain from the viewpoint of local resource utilization, comprehensive development methods to contribute to appropriate and sustainable agriculture and rural development, and knowledge and technology necessary for the promotion and establishment of a plan for sustainable agriculture and rural development that matches the actual circumstances of the locality. This seminar covers the following topics: (1)Lectures (a)Agriculture in Hokkaido (b)Agricultural and Rural Development project (c)Improvement of Rural Area (d)Support System Extended to Farmers, etc (2)Observation (a)Extension center (b)Agricultural cooperation (c)Farmers organizations (d)Land improvement (3) Presentation (a)Country Report (b)Final Report	JAPAN GREEN RESOURCES CORPORATION(JGRC)
	<b>JICA CENTER</b>
	Hokkaido International Centre,Sapporo
	<b>COOPERATION PERIOD</b>
	2001 ~ 2005
	<b>REMARKS</b>