



【Online】 Knowledge Co-Creation Program (Group & Region Focus)

**General information on
Cattle Management for Milk Production Aiming at
Improving Food and Nutrition Security
課題別研修「栄養改善を目的とした乳生産のための牛の飼養管理」
JFY 2021**

**Course No.: 202003085J001
Online Program Period: From October 20, 2021 to November 24, 2021**

This information pertains to one of the JICA Knowledge Co-Creation Programs (Group & Region Focus) of the Japan International Cooperation Agency (JICA) implemented as part of the Official Development Assistance of the Government of Japan based on bilateral agreement between both Governments.

JICA Knowledge Co-Creation Program (KCCP)

The Japanese Cabinet released the Development Cooperation Charter in February 2015, which stated, *“In its development cooperation, Japan has maintained the spirit of jointly creating things that suit partner countries while respecting ownership, intentions and intrinsic characteristics of the country concerned based on a field-oriented approach through dialogue and collaboration. It has also maintained the approach of building reciprocal relationships with developing countries in which both sides learn from each other and grow and develop together.”* JICA believes that this ‘Knowledge Co-Creation Program’ will serve as a foundation of mutual learning process.

I. Concept

Background

Cattle (and goats) are one of the major livestock in many developing countries and are a valuable source of income in rural areas. In these developing countries, the quantity and quality of milk produced remains low due to lack of feed supply, quality feed, improper feeding management, and outbreaks of diseases.

It is expected to contribute the improvement of milk and dairy production, increase income of farmers and improve human nutrition in developing countries by understanding feed management techniques of cattle (and goats), promoting quantitative and qualitative improvements in dairy production and learning how to improve human nutrition.

For what?

Participants will learn to improve milk production by understanding the feeding and management techniques for ruminants, mainly cattle, and acquire knowledge and ability to plan, implement and manage effective human nutrition improvement programs based on the nutritional value of milk and dairy products.

For whom?

This program is offered to central / local government agencies, research institutes, universities and private institutions involved in livestock promotion in mainly Initiative for Food and Nutrition in Africa (IFNA) or Scaling Up Nutrition (SUN) member countries.

1. Those who are responsible for making improvement by utilizing learning through policy formulation or training in the field of livestock promotion.
2. Person with more than three (3) years' experience in the field.
3. University graduate or equivalent.

How?

Participants shall have opportunities to have lectures, discussions and watching lecture videos in order to achieve the above program aim by the online program. Participants will also formulate an action plan utilizing the knowledge and ideas acquired from this online program which is to be implemented after the program.

II. Description

1. Title (Course No.)

Cattle Management for Milk Production Aiming at Improving Food and Nutrition Security (202003085J001)

2. Program Period:

October 20 to November 24, 2021

3. Time Availability:

Live session from 14:30pm to 16:30 pm Japan Standard Time (JST).

*If you need any assistance for preparation of the learning environment, please consult the local JICA office. Please note that the JICA office may not be able to assist with all requirements.

4. Target Regions or Countries

Eritrea, Georgia and Papua New Guinea.

5. Eligible / Target Organization

Central/local government agencies, research institutes, universities and private institutions involved in livestock promotion in IFNA or SUN member countries.

6. Capacity (Upper Limit of Participants)

12 participants

7. Language

English

8. Objective(s)

Participants will learn to improve milk production by understanding the feeding and management techniques for ruminants, mainly cattle, and acquire knowledge and ability to plan, implement and manage effective human nutrition improvement programs based on the nutritional value of milk and dairy products.

9. Output and Contents

This course consists of the following components. Details on each component are given below.

(1) Preliminary Phase

(September, 2021 to October, 2021)

Participating organizations make required preparation for the Program in the respective country.

Expected Module Output	Activities
Inception Report is formulated.	Formulation and submission of the Inception Report to the respective country's JICA Office

(2) Online Program (October 20, 2021 to November 24, 2021) <i>Participants attend the Online Program in the respective country.</i>		
Expected Module Output	Subjects/Agenda	Methodology
Be able to explain about feed production and nutrition management for milk production of ruminants, mainly cattle.	<ul style="list-style-type: none"> • Feed production • Utilization of by-products as feed • Nutrition of cattle • Evaluation of feed • Feed calculation and feeding method • Technique in preparing silage • Feed production in tropical region 	lectures,
Be able to explain the problems and issues of cattle management technique in their own country, and explain the background and the possibility of local community development based on it.	<ul style="list-style-type: none"> • Challenges in promoting the spread of milk and dairy products • Initiatives for the milk production and quality improvement • How to provide hygienic milk and dairy products 	discussion
Be able to explain techniques for improving milk quality such as mastitis measures and hygienic milk production.	<ul style="list-style-type: none"> • Milk quality improvement • Hygienic management • Voluntary hygienic management • Disease prevention of dairy cow • Hygienic distribution of raw milk • Milking • Hygienic handling of raw milk 	lectures
Be able to explain the application to your own country by learning about the framework for improving human nutrition and good practices in each country.	<ul style="list-style-type: none"> • Basic knowledge about the causes and countermeasures of malnutrition • Global trend on nutrition improvement • Nutrition improvement initiatives in Japan • Administrative measures for nutrition improvement • School lunch system 	lectures
Based on the outcomes (1) to (4), the trainees formulate action plans for improving milk production and human nutrition in each country.	<ul style="list-style-type: none"> • Development of the manual on cattle management for sustainable milk production • Development of nutrition improvement plan using milk and dairy products • Formulation of extension plan 	lectures

<p>(4)Finalization Phase (December, 2021 to May, 2022) <i>Participating organizations produce final outputs by making use of results by participants. This phase marks the end of the Program.</i></p>	
Expected Module Output	Activities
To implement the Action plan	Application and implementation of the Action Plan. Submission of the final Report is recommended by May 2022 to the JICA Hokkaido (Obihiro).

III. Eligibility and Procedures

1. Expectations to the Applying Organizations

- (1) This course is designed primarily for organizations that intend to address specific issues or problems identified in their operation. Applying organizations are expected to use the program for those specific purposes.
- (2) This course is enriched with contents and facilitation schemes specially developed in collaboration with relevant prominent organizations in Japan. These special features enable the course to meet specific requirements of applying organizations and effectively facilitate them toward solutions for the issues and problems.
- (3) As this program is designed to facilitate organizations to come up with concrete solutions for their issues, participating organizations are expected to make due preparation by carrying out the activities of the Preliminary Phase described in section II -9 .
- (4) Participating organizations are also expected to make the best use of the results achieved by their participants by carrying out the activities of the Finalization Phase described in section II -9.

2. Nominee Qualifications

Applying organizations are expected to select nominees who meet the following qualifications.

(1) Essential Qualifications

- 1) Current Duties: Technical instructor, extension officer, researcher and field veterinarian (on-site extension workers or technical experts are preferable) who has more than three (3) year practical experience.
- 2) Educational Background: a university graduates or equivalent.
- 3) be nominated by their government in accordance with the procedures mentioned in III-4 below.
- 4) Language Proficiency: have a competent command of spoken and written English proficiency equivalent to TOEFL iBT 100 or above (This workshop includes active participation in discussions, which requires high competence in English. Please attach an official certificate for English ability such as TOEFL, TOEIC etc., if possible)
- 5) Health: must be in good health to participate in the program.
- 6) Expected requirements* specific for the online course;
 - a. Hardware: PC or tablet with speaker/microphone and web camera
 - b. Software: Zoom, YouTube, GIGAPOD, Google Chrome/ Microsoft Edge/ Internet Explorer, Microsoft Excel/ Word/ Power Point, PDF, E-mail.
 - c. Internet Connection: speed enough to use as shown in “b. Software” above.

*If your internet connection is slow or unstable, please make a contact to the local JICA office to get an assistance for preparation of the learning environment. However, please note that the JICA office may not be able to assist with all requirements.

(2) Recommended Qualifications

- 1) Age: preferably less than fifty (50) years old
- 2) Gender Consideration: JICA promotes gender equality. Women are encouraged to apply for the program.

3. Required Documents for Application

(1) Application Form: The Application Form is available at **the JICA overseas office (or the Embassy of Japan)**

(2) Photocopy of Passport: to be submitted with the application form, if you possess your passport. If you do not have a passport, please submit photocopy of alternative official identification.

*Photocopy should include the followings:

Name, Date of birth, Nationality, Sex, Passport number and Expire date.

(3) English Score Sheet: to be submitted with the application form, if the nominees have any official English examination scores. (e.g., TOEFL, TOEIC, IELTS)

(4) Inception Report and Answer sheet: to be submitted with the application form. (Detailed information is provided in *VI. ANNEX: Attachment*)

Those who failed to submit Inception Report and Questionnaire before the designated deadline will not be allowed to participate in this online program.

In case there are any missing documents or missing part, the nominee may be excluded from the selection.

4. Procedures for Application and Selection

(1) Submission of the Application Documents

Closing date for applications: **Please confirm the local deadline with the JICA overseas office (or the Embassy of Japan).** All required material must arrive at **JICA Center in Japan by September 21, 2021**

(2) Selection

Primary screening is conducted at the JICA overseas office (or the embassy of Japan) after receiving official documents from your government. JICA Center will consult with concerned organizations in Japan in the process of final selection.

Applying organizations with the best intentions to utilize the opportunity will be highly valued.

The Government of Japan will examine applicants who belong to the military or other military-related organizations and/or who are enlisted in the military, taking into consideration of their duties, positions in the organization and other relevant information in a comprehensive manner to be consistent with the Development Cooperation Charter of Japan.

(3) Notice of Acceptance

The JICA overseas office (or the Embassy of Japan) will notify the results **not later than October 5, 2021.**

5. Conditions for Participation

The participants of KCCP are required

- (1) to strictly adhere to the program schedule.
- (2) not to change the program topics.
- (3) not to share videos, textbooks, materials, etc. used in this training or use them for any other purpose.
- (4) to refrain from engaging in any political activities
- (5) to observe Japanese laws and ordinances.
- (6) to observe the rules and regulations of the accommodation and not to change the accommodation designated by JICA. If you cannot use stable internet connection at your office or home, JICA Office will arrange an accommodation.

IV. Administrative Arrangements

1. Organizer (JICA Center in Japan)

(1) **Center:** JICA Hokkaido (Obihiro)

(2) **Program Officer:** Mr. ONO Hisashi (jicaobic@jica.go.jp)

2. Implementing Partner

(1) **Name:** Tokachi International Association (TIA)

(2) **URL:** <https://www.t-i-a.jp/>

3. Expenses

The following expenses will be provided by JICA

Online Program

(1) Expenses related to the online program will be paid according to the regulations of JICA Office, if necessary.

(2) Details will be provided at the time of notification of acceptance.

V. Other Information

1. Certificate

Participants who have successfully completed the training program will be awarded a certificate by JICA.

VI. Annex

Attachment

Group Training Program
“Cattle Management for Milk Production Aiming at Improving Food and Nutrition Security”
Inception Report

Applicants are requested to prepare an Inception Report on the following issues and **submit it to the respective country’s JICA Office with the Application form.**

a. Purposes

- (1) To clarify issues and problems presently faced in their work in order to facilitate the acquisition of knowledge and ideas leading to solutions during the training program.
- (2) To provide advance information regarding issues and problems faced by participants to lecturers and organizations concerned with the program as a point of reference in finding solutions.

b. Contents

- (1) Name of applicant.
- (2) Name of country.
- (3) Name of organization.
- (4) Organization chart.
- (5) Roles of the organization and the department to which the applicant belongs to.
- (6) Basic information and present situation of milk production in your area.
(Please refer to the following questionnaire)
- (7) Introduction of the work, which the applicant has been in charge for the last one year
- (8) Subjects in which the applicant is particularly interested on this program and the reasons

c. Layout

Typewritten in English, 3-5 pages (12-point font, double spaced, A4 size paper)

d. Presentation

The Inception Report is to be presented by each participant using MS PowerPoint at the beginning of the program.

- (1) The time allocation for each presentation of the Inception Report will be about 8-10 minutes.
- (2) It is advisable to bring some materials such as pictures or other visual aids to show your country’s agricultural situation.

Group Training Program
 “Cattle Management for Milk Production Aiming at Improving Food and Nutrition Security”

Answer sheet

Name: _____

Name of the area in charge _____

(1) Characteristics of the area

Question	Brief explanation
i) Location (suburban or remote area)	
ii) Geographical feature (flat land or mountainous)	
iii) Climate condition	
iv) Water availability and water resource	
v) Education level of farmers	

(2) Basic information of Agriculture

Question	Brief explanation
i) Main crop	
ii) Cropping pattern/system	

(3) Basic information of Livestock

Type	Number or percentage
i) Cattle (dairy)	
ii) Goats	
iii) Sheep	
iv) Others	

(4) Basic information of cattle management at the farmers' level

Question	Brief explanation
i) Cattle farming system	
ii) Main variety of cattle	
iii) The number of cattle per household (average)	
iv) The quality and quantity of milk production	

(5) Basic information and present situation of following area

Area	Basic information, present situation and facing problems
i) Feeding and nutrition management	
ii) Milking procedure	
iii) Hygienic management of Milking	
iv) Management under the heat condition	

For Your Reference

JICA and Capacity Development

Technical cooperation is people-to-people cooperation that supports partner countries in enhancing their comprehensive capacities to address development challenges by their own efforts. Instead of applying Japanese technology per se to partner countries, JICA's technical cooperation provides solutions that best fit their needs by working with people living there. In the process, consideration is given to factors such as their regional characteristics, historical background, and languages. JICA does not limit its technical cooperation to human resources development; it offers multi-tiered assistance that also involves organizational strengthening, policy formulation, and institution building.

Implementation methods of JICA's technical cooperation can be divided into two approaches. One is overseas cooperation by dispatching experts and volunteers in various development sectors to partner countries; the other is domestic cooperation by inviting participants from developing countries to Japan. The latter method is the Knowledge Co-Creation Program, formerly called Training Program, and it is one of the core programs carried out in Japan. By inviting officials from partner countries and with cooperation from domestic partners, the Knowledge Co-Creation Program provides technical knowledge and practical solutions for development issues in participating countries.

The Knowledge Co-Creation Program (Group & Region Focus) has long occupied an important place in JICA operations. About 400 pre-organized courses cover a wide range of professional fields, ranging from education, health, infrastructure, energy, trade and finance, to agriculture, rural development, gender mainstreaming, and environmental protection. A variety of programs is being customized by the different target organizations to address the specific needs, such as policy-making organizations, service provision organizations, as well as research and academic institutions. Some programs are organized to target a certain group of countries with similar developmental challenges.

Japanese Development Experience

Japan, as the first non-Western nation to become a developed country, built itself into a country that is free, peaceful, prosperous and democratic while preserving its tradition. Japan will serve as one of the best examples for our partner countries to follow in their own development.

From engineering technology to production management methods, most of the know-how that has enabled Japan to become what it is today has emanated from a process of adoption and adaptation, of course, has been accompanied by countless failures and errors behind the success stories.

Through Japan's progressive adaptation and application of systems, methods and technologies from the West in a way that is suited to its own circumstances, Japan has developed a storehouse of knowledge not found elsewhere from unique systems of organization,

administration and personnel management to such social systems as the livelihood improvement approach and governmental organization. It is not easy to apply such experiences to other countries where the circumstances differ, but the experiences can provide ideas and clues useful when devising measures to solve problems.

JICA, therefore, would like to invite as many leaders of partner countries as possible to come and visit us, to mingle with the Japanese people, and witness the advantages as well as the disadvantages of Japanese systems, so that integration of their findings might help them reach their developmental objectives.



Contact Information for Inquiries

For inquiries and further information, please contact the JICA overseas office or the Embassy of Japan. Further, address correspondence to:

JICA Hokkaido (Obihiro)

Address: 1-2, Minami 6-chome, Nishi 20-jo, Obihiro-city, Hokkaido, 080-2470, Japan

TEL: +81-155-35-1210 FAX: +81-155-35-1250