

S #6

## Training Course on Technology of Agro-Products Processing and Preservation for Developing Countries

Name	Training Course on Technology of Agro-Products Processing and Preservation for Developing Countries		
Organizer	Chinese Academy of Agricultural Mechanization Sciences (CAAMS)		
Time	2023-07-06 -- 2023-07-26	Language for Learning	English
Invited Countries	Developing Countries		
Requirements for the Participants	Age	Under 50 years old for participants at director-general's level; under 45 years old for participants at department-level; under 45 years old for participants at or under division director's level.	
	Health	In good health with health certificate issued by the local public hospitals; without diseases with which entry to China is disallowed by China's laws and regulations; without severe chronic diseases such as serious high blood pressure, cardiovascular/cerebrovascular diseases and diabetes; without mental diseases or epidemic diseases that are likely to cause serious threat to public health; not in the process of recovering after a major operation or in the process of acute diseases; not seriously disabled or pregnant.	
	Language	Capable of listening, speaking, reading and writing in English during the training	
	others	Family members or friends shall not follow	
Host City	Beijing	Local Temperature	20-30°C
Cities to visit	Beijing, Baoding, Langfang	Local Temperature	20-30°C

Notes	<p>1. Visa: Please confirm that the validity period of the visa covers the period from 5 days before the start of the project to 5 days after the end of the project.</p> <p>2. The training course will organize participants to make national agricultural reports and exchange information on agricultural products processing and agricultural development. The participants should prepare on time.</p> <p>3. Life preparation: ① Please prepare for study and life according to the training arrangement and the weather conditions of the place where the training is held and the place where the visit is conducted. ② Please prepare some common medicine according to your own situation. It is strictly prohibited to carry drugs that are prohibited or exceed the limit into China.</p> <p>4. Baggage requirements: ① Please pay attention to the standard of allowed baggage for international and domestic flights. The expenses incurred due to overweight baggage and the responsibility for flight delay caused by baggage disputes shall be borne by the individual. ② Please confirm whether you need to check your baggage again when you transfer. ③ In case of loss of checked baggage, please register with the airline in time. When filling in the registration form, please call the contact person of the sponsor to confirm the baggage delivery address.</p> <p>5. Arrangement for missed flight and pick up: ① If you cannot leave on time due to special circumstances, or there is flight delay during the transfer, please inform the contact person of the handling unit of the latest flight status in time to arrange pick up. ② Please wait patiently at the international (or domestic) arrival exit after the flight lands to pick up the baggage, and the staff will pick up the aircraft with the pick-up card written with CAAMS. If you wait more than 15 minutes, you can communicate with the contact person by telephone.</p> <p>6. Refund and change of ticket: change the ticket without permission or refund and change of ticket due to personal reasons, and the expenses and responsibilities incurred shall be borne by the individual.</p> <p>7. Please download WeChat APP in advance.</p>
About the Organizer	<p>Chinese Academy of Agricultural Mechanization Sciences (CAAMS) was founded in 1956, and is one of the first group of national innovation-oriented hi-tech enterprises. CAAMS is committed to provide agriculture with advanced technology and equipment. CAAMS is a well-known origin of agricultural engineering technologies in China, and has provided the technologies of more than 3,000 kinds of agricultural &amp; food machinery in 9 categories to our country. CAAMS is a nation-wide center for technical research, strategic planning, product marketing and international cooperation. CAAMS has provided more than 3,000 kinds of agricultural &amp; food machinery in 9 categories to our country (85% of the whole trade), while making great contribution to the national agricultural modernization.</p> <p>Chinese Academy of Agricultural Machinery has successively undertaken 20 sessions of the topic of the use and maintenance of agricultural machinery. This topic was awarded the first batch of classic training projects by the Ministry of Commerce in 2020, and the training effect has been highly recognized by the majority of students. The training content covers a wide range of fields and is rich in topics. The courses taught are comprehensive, practical, professional, practical and interesting, and have won unanimous praise from the recipient countries. Through continuous technological innovation and implementation of domestic and foreign agricultural engineering projects, as well as industry research and cooperation, the Chinese Academy of Agricultural Machinery has mastered the use and maintenance of agricultural machinery suitable for different conditions and regions, which can be used as an agricultural development experience with both applicability and effectiveness. The vast number of developing countries refer to and promote the technological progress of agricultural mechanization in the vast number of developing countries, and contribute to the coordinated and sustainable development of the society and economy of the recipient countries.</p>

Seminar Content	<p style="text-align: center;"><b>1.Introduction of the main training subjects and content</b></p> <p>The training course will discuss the development achievements and experience with participants through lectures, symposiums, technical visiting and other forms. Major courses include but not limited to the followings:</p> <p>1)China's Basic National Conditions: introduces the politics, society, history, traditional culture and other aspects of China, introduce the background of Belt and Road, its principle of achieving shared growth through collaboration, its significance, the Belt and Road Forum and international cooperation.</p> <p>2)World Agro-product Processing and Preservation Technology Development Trend: introduce the world and China's agro-product processing, consumption and trade situation; The production, preservation, circulation, consumption, processing and trade of agro-products in major agro-product producing, consuming and trading countries in recent years, as well as the changes in agricultural policies, agro-product circulation system, market and supply and demand.</p> <p>3)General Overview and Related Policies of China's Agriculture: introduces the general situation of China's agriculture and the policy support the agricultural system construction.</p> <p>4)China's Agricultural Industrialization Development Mode, Poverty Reduction Thinking and Practice: focus on introducing China's agricultural transformation and upgrading and multi-industry integration development experience, focus on combining resource endowment, using scientific and technological innovation, developing agro-product processing industry and trade, and achieving industrial upgrading and rural revitalization; Introduce the basic practices and experience of achieving targeted poverty alleviation through developing agro-product processing and trade.</p> <p>5)Agro-product Processing and Food Engineering Industry Policies and Regional Development Experience: introduces the development history, problems and solutions of China's agro-product processing and food engineering industry, analyze China's subsidies, support policies and popularizing of agro-product processing industry, and introduce the development experience of some similar regions in China according to the country situation of the participants' countries.</p> <p>6)Agro-product Processing and Food Engineering Standard System Construction: introduces the standardization system construction of agro-product processing and food engineering industry in China, explain the role of standards in guiding production, promoting trade, food security and other aspects.</p> <p>7)Basic Theory of Agro-product Processing: introduces the types and features of agro-product processing, the specific requirements of environment, water quality, additives and raw materials for processing, and explains the basic knowledge of grain and oil processing, the basic principles of processing and preservation, and the treatment methods of processing water, food additives and other theoretical basis.</p> <p>8)China's Food Security and Agro-Products Processing: As the world's largest developing country, China has explored a path of food security with Chinese characteristics by comprehensively upgrading of agricultural machinery and equipment, processing, storage and transportation and other application technologies, strengthening core technologies such as processing and circulation, increasing food supply and improving food quality.</p> <p>9)Deep Processing Technology, Equipment and Comprehensive Utilization of Grain and Economic Crops: introduces the deep processing technology, the comprehensive utilization mode of by-products, the methods of improving the utilization rate and added value of grain, the scientific and technological level and development experience of China's deep processing, main by-products, and processing mode, etc.</p> <p>10)Key Fermentation Technologies of Modern Food: including fermented grain products, fermented bean products, fermented fruit and vegetable products, fermented meat products, fermented aquatic products, fermented edible fungus products, and detailed introduction of the specific production processes of some distinctive products. To enable participants to master the production process and main equipment characteristics of fermented food and adapt to the requirements of food research and development, production and operation management, and quality control.</p> <p>11)Oil Processing Technology: introduces the type, definition and overview of oil, oil source, composition and related oil products, and explain the type of oil, main technology and principle of oil production, industrial status, etc.</p> <p>12)Meat Processing Technology: introduces the current situation and development trend of meat production, processing, consumption and meat product quality and safety control technology in China and abroad. Put forward improvement suggestions for the current meat</p>
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and processing methods of developing countries, help them formulate reasonable development direction and objectives of production and processing, and improve the production technology of all links of meat processing and meat cooling and refrigeration technology.

13)Potato Processing Technology: introduces the storage methods of sweet potato, potato and other main potato, the general process and equipment of potato processing, the processing technology of canned potato, jam, beverage, pastry and other products, the processing technology of fermented potato products, the processing technology and equipment of potato starch and potato starch products, the production technology of modified potato starch, and the comprehensive utilization technology of potato. Giving suggestions to the existing processing methods of potato in developing countries, and putting forward for improvement.

14)Key Points of Fruit and Vegetable Processing Technology and Quality Control: introduces the processing technology, supporting equipment and production lines of fruit and vegetable juice, dried fruit and vegetable, puree jam, seasoning products and other products, show China's technical strength in fruit and vegetable processing, and help developing countries improve the level of fruit and vegetable processing technology.

15)Aquatic Product Processing Technology: based on the raw material types and processing characteristics of aquatic products, and combined with the actual fishery development needs of developing countries, introduce the practical processing technology of aquatic products, including frozen food processing, drying processing, canned products processing, processing of aquatic flavor products, processing of seaweed food and comprehensive utilization of aquatic products, etc.

16)Application of New Technologies for Drying and Preservation of Agro-Products: drying is a necessary treatment link after harvest of agro-products, with the purpose of removing excess water in agro-products, so as to facilitate processing, transportation, storage and use. The course mainly introduces the principle of agro-product drying and drying processing technology, drying equipment and process flow, technical application, etc.

17)Food Cold Chain Logistics Under the Background of "Internet+": cold chain preservation technologies generally include pre-cooling technology, quick-freezing technology, food packaging technology, etc. The course will arrange corresponding suggestions and alternative models for establishing cold chain projects according to different agricultural production needs of developing countries.

18)Application of Intelligent Packaging in the Food Industry: introduce the basic situation, business level and development direction of export packaging and food machinery, listen to the needs and problems of developing countries in food processing and packaging, and offer the propose targeted solutions for their situation.

19)Agro-product Processing and Quality & Safety System Construction: introduce the main situation of agricultural product quality and safety in China and abroad, analysis of main factors affecting agricultural product quality, agricultural product processing and quality inspection system, agricultural product quality and safety standards, etc.

20)Exports Packaging and Food Technology: introduces the basic situation, development level and trend of exports packaging and food machinery, and put forward targeted solutions to the challenges and problems raised by participants.

21)Agricultural Product Market and Agro-product Circulation: including agro-product market system construction, agricultural product circulation and promotion policies, agricultural product e-commerce and other topics, mainly introducing the construction of China's agro-product market, the current situation and policies in the field of agro-product circulation.

22)Current Situation and Future Development of Agricultural Cooperation between China and Developing Countries: introduce the current situation, problems and countermeasures of China's agricultural foreign cooperation; The current situation, problems and future development of agricultural experiment and demonstration cooperation outside China; The current situation and future development opportunities of agricultural cooperation among developing countries and regions in the Asia-Pacific region; Cooperation opportunities and challenges for China to help African countries improve the processing capacity of agricultural products; China's agricultural cooperation along the Belt and Road countries, support and promotion policies, and measures to promote the trade facilitation of agricultural products along the Belt and Road countries.

2.Introduction to the overall situation of the lecturers

This training course invites experts and scholars who have been engaged in agricultural for many years. All of them have senior professional titles and above, and have rich teaching and research experience. Some of them are listed as follows.

1)Mr. Ma Teng, senior engineer of CAAMS, is engaged in implementation and management of

agricultural projects, international training and trade.

- 2) Mr. Song Xiaomin, senior engineer of CAAMS, is engaged in implementation and management of livestock machinery projects, international training and trade.
- 3) Mr. Luo Min, researcher of CAAMS, is engaged in research and trade of agricultural machinery.
- 4) Ms. Lin Yaling, researcher of Chinese Academy of Agricultural Mechanization Sciences Group Co., Ltd.
- 5) Ms. Lv Chengxu, researcher of Chinese Academy of Agricultural Mechanization Sciences Group Co., Ltd.
- 6) Mr. Zhang Wangang, professor of Nanjing Agricultural University.
- 7) Ms. Zhang Jie, senior engineer of Chinese Academy of Agricultural Sciences.
- 8) Mr. Liu Xiangdong, professor of China Agricultural University.
- 9) Mr. Tao Yang, associate professor of Nanjing Agricultural University.
- 10) Mr. Wang Kai, senior engineer of Chinese Academy of Agricultural Sciences

3. Introduction to the contents of the planned visit and inspection activities

This training course will arrange participants to visit the China National Key Laboratory of Agro-Product Processing Equipment and Agro-Product Processing Industrial Park, etc. In addition, this training will also hold an online business matchmaking meeting to promote the participants to further understand the current situation of export processing system of agro-product development and future development trends.

4. Course requirements

- 1) Participants should prepare a country report on the related topic before the seminar starts.
- 2) Participants should achieve 80% or higher attendance rate to get the certificate of the training.