

2022 AOTS Online Program Fundamentals of Threaded Metal Connections:

Organized by The Association for Overseas Technical Cooperation and Sustainable Partnerships (AOTS)
Collaborated by AOTS Alumni Society, Egypt

BACKGROUND

The Association for Overseas Technical Cooperation and Sustainable Partnerships (AOTS) is an organization for human resources development mainly in overseas countries to promote technical cooperation through training, experts dispatch and other programs. Through those programs, we aim at contributing to the mutual economic growth of developing countries and Japan as well as enhancing friendly relations among those countries.

The Online Program on “Fundamentals of Threaded Metal Connections” is an online program designed for decision makers such as field supervisors, senior engineers and procurement professionals in the field of processing plants, ports and harbors, railway, infrastructure and engineering industries. Specifically for decision makers who work with installation and design processes that include the use of threaded components (“Bolted joints”). The program is suitable for participants who are facing challenges with safety or interested in reducing required maintenance for bolted applications.

OUTLINE

Bolted joints are the smallest building blocks of engineering components. It is required that these safety critical components stay in good integrity throughout the product / application lifespan. In the case that bolted joints are not inspected and tightened frequently, there possible risk for accidents and endanger to human lives.

Egypt is currently undergoing rapid infrastructure development, which is creating significant demand for applications requiring bolted joints.

In this program, participants will learn and enhance their awareness about the importance of fastening technology and preventive measures through lectures on safety design of bolted joints and evaluation techniques for bolt strength and loosening. In addition, top Japanese bolt locking technology manufacturer, HARDLOCK Industry will explain the types of loosening that occur in bolted joints and the available countermeasures. HARDLOCK Industry is familiar with real challenges faced in the industry and is able to offer participants practical knowledge necessary to utilize bolted joints correctly and efficiently.

OBJECTIVES

This online program aimed for decision makers such as field supervisors, senior engineers, and procurement professionals in the field of processing plants, ports and harbors, railway, infrastructure and engineering industries in Egypt is to achieve the following goals:

- 1) To deepen understanding on the design of bolted joints for safe and integral joints.
- 2) To understand the topics of loosening prevention and fracture failure.
- 3) To understand the types of loosening that can cause serious accidents and its countermeasures.
- 4) To learn about case studies where maintenance was reduced or safety risks were eliminated for a wide range of applications and industries. With the ultimate goal of acquiring practical knowledge necessary to take advantage of bolt locking devices in their own companies.

DATE AND TIME

DAY 1: Tuesday, 15 November 2022, 9:00AM-12:00PM (Egyptian Time)

DAY 2: Wednesday, 16 November 2022, 9:00AM-12:00PM (Egyptian Time)

DAY 3: Thursday, 17 November 2022, 9:00AM-12:00PM (Egyptian Time)

TARGET COUNTRY

Egypt

NUMBER OF PARTICIPANTS

100 participants

TARGET PARTICIPANTS

Decision makers such as field supervisors, senior engineers and procurement professionals in the field of processing plants, ports and harbors, railway, infrastructure and engineering industries. Professors and Research staff from educational institutions such as engineering universities and companies are also welcome.

[Basic Requirements for Participants]

In order to participate in this program, the following conditions must be satisfied, in addition to the work experience and position requirements specified for each program.

- a) Participants should live and work in target country. Japanese is NOT applicable.
- b) Participants should belong to either a corporation or an organization.
- c) Participants should be 20 years old and over.
- d) Participants should not be armed forces personnel.
- e) Participants should not be students.

Notes:

- 1) In the case of applications from a company with capital from a developed country other than Japan, the priority for selection becomes lower.
- 2) This training is mainly aimed at the people working in the companies/organizations in the private sector, so those who belong to national or local government agencies have lower priority for selection.

THEME OF THE PROGRAM

Day 1:

Fundamental Bolted Joint Topics, History and standards, static strength, relationship between external and internal forces applied to joint.

Day 2:

Torque and Plastic zone fastening method, Bolt Fatigue Strength, Nut Loosening and Preload loss

Day 3:

"All about HARDLOCK Nut (HLN):"Japanese Kusabi Threaded Technology - Alternatives to welding. The ultimate wedge principal"

LECTURERS

Day1 & 2

Dr. Soichi HAREYAMA

(Doctor of Engineering)



Visiting Researcher, former Visiting Professor,
Tokyo Metropolitan University
Former Part-time Lecturer: In charge of Mechanics of Materials and
Advanced Mechanical Engineering
Representative of So-Technology
Former Technical Advisor, Hitachi Construction Machinery Co. and Former
Chief Engineer, TCM Co.

Day 3

HARDLOCK Industry

Mr. Kazumi Ozawa

(Chief of Product Planning Section, Technology Development Department)

Mr. Jayden Barnes

(International Sales Rep. of International Sales Department)

LANGUAGE

This program will be conducted in **English**.
The lecture materials will also be prepared in **English**.

PARTICIPATION FEE

Free of charge

This program will be implemented with the subsidy from the Japanese Government.

HOW TO APPLY

We accept applications from the AOTS Alumni Societies exclusively.
Please contact the person in charge of AOTS Alumni Society, Egypt by the application deadline.
After the deadline of AOTS Japan, AOTS will screen the applicants and select the participants, who will be notified from the AOTS Alumni Society by email.
The screening is conducted based on a comprehensive evaluation as well as described eligible requirements. Please note that you may not be able to participate in this program depending on the number of applications received.

APPLICATION DEADLINE

Monday, 31 October 2022 (JST)

*After the deadline, the applicants will be notified as to whether you are accepted or not by e-mail from the Alumni Society.

ONLINE TOOL

Zoom Meeting

*When selected as a participant, you will receive a link to join the program from Zoom, approximately one week before the program day. On the day of the program, please click on this link to join the webinar.

*If you do not receive an email, please contact AOTS Alumni Society/Association you applied for.

NOTES

Please read the following notes before applying for this program. By applying for the program, you agree to the following terms and conditions.

- ◇ Do not transfer the seminar connection information (meeting link/number/password) given to the participants, to others without permission.
- ◇ This program will be conducted using the external service "Zoom". Participants are required to prepare the necessary equipment for attending the seminar, such as a computer, webcam, and microphone, and to confirm that the communication environment does not interfere with participating this program before the program started. The participant shall prepare and maintain the equipment and communication environment necessary to receive training at their own expense and responsibility.
- ◇ The personal information provided by the participant may be provided to the persons involved in the implementation of the program, such as lecturers and interpreters, based on the participant's consent. In addition, the registration information and other information and data provided may be used at the discretion of AOTS for the purpose of providing and operating training, improving and enhancing training content, publicizing other training programs and conducting surveys, or may be made public as statistical information in a form that does not identify individuals.
- ◇ The participants are requested to cooperate for a survey conducted by AOTS.
- ◇ Unauthorized reproduction, editing, modification, distribution or reprinting of handouts, or filming or recording of lecture content is strictly prohibited. Participants are asked to make a pledge not to commit any violation.
- ◇ In the event of an unavoidable accident (war, riot, labor dispute, earthquake, storm, fire, flood, epidemic, etc.) or network / equipment trouble, AOTS may cancel the implementation of the program. AOTS will not be held responsible if it becomes difficult for participants to participate in or continue to participate in the program due to an unavoidable accident or network/equipment trouble.

APPLY TO

AOTS Alumni Society, Egypt

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INQUIRY

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