

SKILLS EVALUATION SYSTEM  
PROMOTION PROGRAM (SESPP)

**REPORT ON THE TRAINING SESSION  
IN LAO PDR**

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| Expert          | Mr. INAGAWA Fumio (SESPP Secretariat Technical Advisor)          |
| Period          | Monday, September 23rd ~ Friday, September 27th, 2024            |
| Venue           | Skills Development Institute (SDI)<br>Vientiane Capital, Lao PDR |
| Training course | Skills Assessor Training (SAT)                                   |
| Trade & Grade   | Mechanical Inspection, Grade 3                                   |

**December, 2024**

# Outline of Results

## 1. Number of participants

<SAT>

**Participants: 10      Completed participants: 10**

## 2. Schedule

| Date & Time  | Content  |
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| September 23rd<br>(Monday)<br>8:30 - 16:30<br>(All local time) | [ Skills Assessor Training (SAT) ]<br>(1) Explanation of training schedule<br>(2) Overview of Japan's Trade Skill Testing and Certification System<br>(3) Instructions on how to read calipers and micrometers<br>· Guidance on how to adjust the zero point of a micrometer<br>(4) Measurement work training<br>(5) Roles and responsibilities of assessors<br>(6) Implementation method of the practical test and operational considerations<br>· The use of pre-test instruction sheet for examinees<br>· Explanation of the answer sheets and marking sheets, and how to utilize them effectively.<br>(7) Required equipment, tools, and supplies for the practical test<br>(8) Setting up the practical test venue and organizing the necessary equipment<br>(9) Formation of the assessor team and role allocation |
| September 24th<br>(Tuesday)<br>8:30 - 16:30                    | [ Skills Assessor Training (SAT) ]<br>(1) Explanation of the practical test (Task 1 to 3)<br>(2) Instructions on how to measure the effective diameter of a screw<br>(3) Instructions on how to measure the instrument error of a micrometer<br>(4) Measurement practice using parts (A) and (B)<br>(5) Role play exercise: participants alternate roles as assessors and examinees in the practical test.   |
| September 25th<br>(Wednesday)<br>8:30 - 16:30                  | [ Skills Assessor Training (SAT) ]<br>(1) Role play exercise (all participants alternate roles as assessors and examinees)<br>(2) Practice finding the correct answer<br>· Finding the correct answer for Task 1 and Task 3<br>· Creating a score deduction table<br>(3) Marking exercises   |
| September 26th<br>(Thursday)<br>8:30 - 16:30                   | [ Skills Assessor Training (SAT) ]<br>(1) Mock practical test (Task 1 and Task 3)<br>· All participants takes the mock test for Task 1 and Task 3<br>(2) Marking using answer sheets<br>· Creating a practical test result sheet   |

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| <p>September 27th<br/>(Friday)<br/>8:30 - 15:00</p> | <p>[ Skills Assessor Training (SAT) ]</p> <p>(1) Explanation of the theoretical test questions</p> <ul style="list-style-type: none"> <li>· Composition of the theoretical test questions</li> <li>· Instruction on how to solve the theoretical test questions</li> <li>· Explanation of relevant ISO and JIS standards</li> </ul> <p>(2) Summary</p> <ul style="list-style-type: none"> <li>· Collection of responses to the questionnaires</li> </ul> |
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### 3. Review

- (1) The room in which the SAT was conducted was fully air-conditioned. Maintaining a constant room temperature is crucial when performing precision measurement work, as temperature fluctuations can lead to measurement errors. The air conditioning system ensured that the room temperature remained stable at 24°C, minimizing the risk of such errors.

On the other hand, we observed that some participants were not attentive to temperature control, such as failing to close the door when entering or leaving the room. To address this, we explained the concept of the linear expansion coefficient and how temperature changes can cause steel materials to expand. Additionally, we emphasized that handling block gauges with bare hands could lead to measurement errors. Through these two examples, we helped the participants understand the critical importance of maintaining temperature control in precision measurement.

- (2) Two of the participants did not fully understand how to read the measurement scales on a micrometer and caliper, resulting in a significant disparity in measurement skills within the group.

The teaching materials we prepared for beginners on measurement, titled "*How to Use Micrometers and Calipers and How to Read Measurement Values (Scales)*," proved to be highly effective. They enabled the participants to smoothly progress through the subsequent measurement practice and role-playing exercises.

- (3) Many of the participants were able to perform measurement tasks using micrometers and calipers with ease. However, when measuring parts to an accuracy of 1/1000 mm, there were several instances where measurements taken at the same location did not match upon double-checking. This indicated that some participants need further experience to enhance their measurement skills. I advised them to continue practicing in order to improve their measurement skills before the next SET.

- (4) This is the first time they have taken a course on precision measurement taught by Japanese expert. Information on the correct use of measuring instruments and aids is readily available online, so I encouraged participants to access this information and learn from it.

Additionally, we emphasized the importance of properly maintaining block gauges, thread gauges, three-wire, and other measuring instruments. We also provided guidance on maintenance practices to prevent rust and advised them to store these tools with the utmost care.

## 4. Questionnaire Results

<SAT>

◆ Participants: 10 (Respondents: 10) (\* 5-point scale)

Satisfaction level: 5: Very satisfied = 10

Usefulness level: 5: Very useful = 9 4: Useful = 1

Needs of continuation: 5: Must continue = 7 4: Should continue = 3

[Improvements and proposals]

- If possible, we would like to participate in the training course and study tour in Japan. (2)
- Kindly ensure that the measuring instruments and tools are prepared and ready in advance. (3)
- I hope that this training course will continue to be offered in the future. (2)
- Please ensure that the equipment for the measurement training is prepared.
- If possible, we would prefer a longer training period.

[Opinions, comments, and preferred trades for the future]

- Training in electrical installation trade
- Training in metal processing trade
- Specialized training in the automotive trade, with a focus on cylinder gauge skills
- Training in Grade 2 of this trade
- Training in hydraulic and electronic equipment
- I would like to request training to prepare for the skills test in home air conditioning installation.
- I would like to request training in the inspecting automobile parts. (2)

◆ Manager: 1 (Respondents: 1) (\* 5-point scale)

Needs of continuation: 5: Must continue = 0 4: Should continue = 1

[Improvements and suggestions]

- Participants and related parties should share the training content with their colleagues at work.
- We believe we should continue to hold online meetings to maintain networking and communication between assessors and Japanese experts.

[Opinions, thoughts, and implementation requests]

- Forklifts in the logistics sector
- Construction, ICT, and apparel industries
- We expect that joint certification by SDI and SESPP will promote skill testing and certification, making it more attractive to Japanese companies..