

SKILLS EVALUATION SYSTEM  
PROMOTION PROGRAM (SESPP)

**REPORT ON THE TRAINING SESSION  
IN VIETNAM**

Expert	Mr. Fumio Inagawa (SESPP Secretariat Technical Advisor)
Period	Friday, October 18 <sup>th</sup> ~Tuesday, October 22 <sup>nd</sup> , 2024
Venue	Dong Nai University, Dong Nai Province, Vietnam
Training course	Skills Evaluation Method (SEM), Skills Evaluation Trial (SET)
Trade & Grade	Mechanical Inspection Grade 2

**December,2024**

# Outline of Results

## 1. Number of participants:

**<SEM> Participants: 6**

**<SET> Assessors: 11**

**Training course completed participants: 6**

**Examinees: 13**

**Successful examinees: 1**

## 2. Schedule

Date & Time	Contents
October 18th (Friday) 8:30 - 16:40 (All local time)	Skills Evaluation Trial (SET) (1) Overview of Training Schedule (2) Practical test implementation method and operational considerations · Explanation on how to use the pre-test instructions sheet for examinees · Explanation and usage of answer sheets and scoring sheets (3) Required equipment, tools, and supplies for the Practical test (4) Setting up the practical test venue and arranging the equipment (5) Setting up the Theoretical test venue (6) Assessor team formation and roles assignment 14:00 - 16:40 Skills Evaluation Method (SEM) (1) Structure and Content of Practical Test - Planning work test Key points on how to solve test questions (eg. creating right triangles, trigonometric functions, Pythagoras' theorem)
October 19th (Saturday) 8:30 – 17:00	Skills Evaluation Trial (SET) 8:00 - 8:10 Reception 8:10 - 8:35 Opening Ceremony 8:40 - 10:20 Theoretical test (100 minutes) (12 examinees) (Assessors not assigned to the Theoretical Test will measure correct values for Practical test tasks 1 to 4) 10:20 - 12:05 Practical test - Planning work test (105 minutes) (13 examinees) 13:00 - 17:00 Practical test – Production work test (13 examinees)
October 20th (Sunday) 8:30 - 16:45	Skills Evaluation Trial (SET) (1) Composing a deduction assessment sheet (2) Marking of Practical test - Production work test (3) Scoring of Practical test - Planning work test (4) Scoring of Theoretical tests (5) Composing Practical test result sheet and Overall test result sheet (6) SET summary and completion of questionnaire 14:00 - 16:45 Skills Evaluation Method (SEM) (1) Attempting the Practical test - Planning work test

	(2) Explanation of geometry questions solution
October 21st (Monday) 9:00 - 16:00	Skills Evaluation Method (SEM) (1) Explanation of solution for the geometry questions and control chart questions (2) Key points for developing geometry questions and control chart questions (3) Attempting the Theoretical test questions (4) Explanation of solution for the Theoretical test questions
October 22nd (Tuesday) 9:00 – 15:40	Skills Evaluation Method (SEM) (1) Explanation of solution for the Theoretical test questions (cont.) (2) Key points for developing the Theoretical test questions (3) Practice in developing Test questions (3 or more questions per person) (4) Presentation and evaluation of the developed questions (5) Summary · Completing questionnaire

### 3. Reviews

(1) This was the second SET on the Mechanical Inspection Grade 2 for assessors. Regarding measurement for gear's base tangent length and measurement by using height gauge, the assessors were able to give appropriate instructions to the examinees and to measure the correct values. I can sense that the assessors skills have been improved.

#### (2) Level of examinees

This time, one examinee passed the test. In the Theoretical test, 7 out of 12 examinees reached the passing level. Additionally, in the Practical test – Planning work test, 8 out of 13 examinees scored 20 points or higher, demonstrating a high level of skill. However, in the Practical test – Production work test, only 1 examinee scored 20 points or more, and many examinees had difficulty with tasks such as measuring the effective diameter of screws using the three-wire method, determining the normal pitch of a gear by measuring the base tangent length with a gear tooth micrometer, and measuring height with a height gauge. As examinees become more familiar with the procedures and techniques for these measurements, it is expected that more examinees will pass the test in the future.

### 4. Questionnaire Results

#### SEM

◆ Participants: 6 (6 respondents) (※ 5-point scale)

Satisfaction level: 5: Very satisfied = 6

Helpfulness: 5: Very helpful = 4 4: Helpful = 2

Continuity: 5: Definitely should continue = 3 4: Should continue = 3

【Which part of the program did you find meaningful?】

- Practice in Measurement Skills and Multiple-Choice Questions
- Enhancing Assessor Capabilities
- Gaining Knowledge and Experience Useful for My Work

- Techniques for Composing Multiple-Choice Questions
- Mechanical Inspection Skills
- Skills and Attitude Toward Measurement

**【Improvements and proposals】**

- Should be continued
- Increasing lessons would provide more practice and enable more detailed measurements
- I would like to continue learning Mechanical inspection skills next year
- I look forward to further developing Mechanical inspection skills next year.

**【Opinions, comments, and preferred trades for the future】**

- Mechanical drawing (CAD work)
- CNC milling machine operation
- Mechanical Engineering (2)
- Mechanical Inspection Skills

◆ 1 local manager (1 respondent) (※ 5-point scale)

Continuity: 4: Should continue = 1

**【Improvements and proposals】**

- Nothing in particular .

**【Opinions, comments, and preferred trades for the future】**

- Mechanical engineering

**SET**

◆ 11 assessors (11 respondents) (5-point scale)

Satisfaction level: 5: Very satisfied = 10 4: Satisfied = 1

Helpfulness: 5: Very helpful = 9 4: Helpful = 2

Level of skill improvement: 5: Greatly improved = 5 4: Improved = 6

Continuity: 5: Definitely should continue = 8 4: Should continue = 3

**【Improvements and proposals】**

- I would like to participate as an assessor in Japan and gain further experience in skill test planning and result evaluation.
- I would like to experience this work in Japan.
- Please continue the implementation of this program.
- I would appreciate receiving continuous and regular training in Mechanical inspection skills every year.
- Since this process takes time, please arrange two tables so that two examinees can take the test simultaneously.
- Next year, I would like to take part in additional training in measurement skills using specialized machine tools.
- I am looking forward to continuing to learn Mechanical inspection skills next year.

**【Opinions, comments, and preferred trades for the future】**

- Mechanical Drawing (CAD Work) (3)
- Sequence Control Level 2
- Mechanical Inspection Grade 3
- Mechanical Engineering
- CNC Machine Maintenance
- CNC Specialties
- Turning, Milling and Drawing
- Continue training in Mechanical Inspection grade 2
- I am open to receiving training and taking mock tests in mechanical inspection skills.
- Mechanical Inspection Skills
- Technical trades that involve measurements and inspections according to JIS standards

◆ 13 examinees (13 respondents) (5-point scale)

Satisfaction level:	5: Very satisfied = 9	4: Satisfied = 4
Helpfulness:	5: Very helpful = 8	4: Helpful = 4    3: Neither = 1
Continuity:	5: Definitely should continue = 8	4: Should continue = 5

【Improvements and proposals】

- Pass the Grade 2 skill test
- Implement more frequently.
- Good
- Given that companies are increasingly transitioning from mechanical to electronic devices, I would like the test content to reflect this shift.
- I would like to use more modern equipment and experience different types of measurement tools.
- Since this is a popular program, I hope it will be held several times a year.
- Please increase the measurement time.

【Opinions, comments, and preferred trades for the future】

- Design
- Measurement and Inspection
- Mechanical testing
- Mechanical measurements
- Electrical-related Trades
- I would like to thank all my instructor for his support during the test.
- Precision Machinery and Electronics Industry
- I want to perform my current QC job well and improve my skills.

◆ 1 local manager (1 respondent) (※ 5-point scale)

Continuity:            5: Definitely should continue = 1

【Improvements and proposals】

- Nothing in particular.

【Opinions, comments, and preferred trades for the future】

- Sequence Control Grade 2, Mechanical Inspection Grade 3 & Grade 2, Mechanical Drawing (CAD work) Grade 3.