

SKILLS EVALUATION SYSTEM  
PROMOTION PROGRAM (SESPP)  
**REPORT ON THE TRAINING SESSION  
IN CAMBODIA**

Experts	Mr. MASUKO Toshiya, Ms. WATANABE Yuko
Period	Monday, October 16, 2023 ~ Friday, October 20, 2023
Venue	National Technical Training Institute (NTTI) Phnom Penh City, Kingdom of Cambodia
Training course	Skills Evaluation Trial (SET)
Trade & Grade	Electrical System Maintenance, Grade 2

**December, 2023**

# Outline of Results

## 1. Number of Participants

**<SET>**

**Assessors: 6**

**Examinees: 6**

**Successful applicants: 0**

## 2. Schedule

Date & Time	Content
October 16th (Monday) 8:30~16:20 (All local time)	[Skills Evaluation Trial] ① Opening ceremony ② Explanation of test administration procedures (Assessors + Examinees) *Made distribution of preliminary release materials and explained their contents. (Hereafter only Assessors) ③ Explanation of schedule ④ Lectures on training points using "Training Materials for New Examiners" and "Training Materials for Chief Examiners", policy of developing question bank by grades, assignment of chief assessor, etc.
October 17th (Tuesday) 8:30~16:20	[Skills Evaluation Trial] ① Lecture on trend and content of theoretical questions ② Confirmation of Assignment 2 content (Assignment settings) ③ Regarding Assignment 2, implementation of wiring, creation of defective lines, preparations of relay timers and supplies, cleaning and inspection of electrical panels and equipment, sealing test questions, etc. ④ Wiring for Assignment 1 (for practice purpose)
October 18th (Wednesday) 8:30~17:00	[Skills Evaluation Trial] ① Regarding Assignment 1, practice of creating program for questions in the past. ② Regarding 2023 Assignment 1, practice of creating time chart & program ③ Regarding 2023 Assignment 1, creation of the official program version ④ Practice of creating Procedure instruction for Movement confirmation & practice of movement confirmation among assessors ⑤ Equipment preparation (disassembly and maintenance of panel wiring for Assignment 1) ⑥ Venue preparation and final confirmation of test administration
October 19th (Thursday) 8:00~16:45	[Skills Evaluation Trial] ① Practical test preparation ② Examinee reception, explanation of the test ③ Assignment 1 implementation (Standard time: 10:20, Maximum time: 10:30) ④ Assignment 2 preparation & break ⑤ Assignment 2 implementation (Standard time: 11:15, Maximum time: 11:35)

	<ul style="list-style-type: none"> <li>⑥ Theoretical test preparation, explanation of the test</li> <li>⑦ Theoretical test (duration: 100 minutes, examinee can leave after 13:45)</li> <li>⑧ Questionnaire survey by examinees</li> <li>⑨ Scoring of theoretical and practical exams</li> </ul>
<p>October 20th (Friday) 8:30~15:30</p>	<p>[Skills Assessor Training]</p> <ul style="list-style-type: none"> <li>① Quick answers and explanations for Grade 2 theoretical questions</li> <li>② Lecture on maintenance</li> <li>③ Cleaning up equipment, consideration of improvements for the next test, etc.</li> <li>④ Questionnaire survey by assessors and local manager</li> <li>⑤ Closing ceremony</li> </ul>

### 3. Review

<Mr. Masuko>

In the last two years, we had to conduct online training courses, but this time we were able to implement face-to-face on-site. I think that on-site training is essential in conveying content regarding technical issues and skills, as well as exchanging opinions.

For Assignment 1 in practical test, it is about relay sequence in SET Grade 3 that we have implemented so far, but the Grade 2 test is structured by using a PLC, so this time we focused on this practical part with lectures and practical training so that the participants could get used to this assignment.

Grade 2 has more theoretical questions than Grade 3 and requires more detailed knowledge, and assessors also need to further improve their techniques and skills. In the future, through in-depth lectures on the scope and details of test subjects, we will aim to train the participants to reach the level where they can develop theoretical and practical questions themselves and become internationally recognized assessors. As maintenance will play more important role in the future society, we hope that this skill test, which enables evaluation of relevant skills, will be approved as a skill certification test in Cambodia.

<Ms. Watanabe>

In the Grade 2 SET this time, the participants put effort into skill improvement so that they can become core skill assessors. Regarding the improvement of theoretical knowledge, they enthusiastically exchanged questions and opinions regarding each test question when we gave explanation on theoretical questions in the past. Furthermore, for practical assignments using PLCs, the participants took PLC programs seriously for the purpose of skill improvement. The effects of training up to now, including this test, were fully demonstrated in SET results. In the lectures on equipment management and maintenance after SET, we highly appreciate their positive attitude and effort in trying to deeply understand and master the knowledge.

We hope that the participants will utilize what they have learnt from this training course to further improve their skills regarding equipment maintenance, become international skill assessors, and contribute to the establishment and dissemination of skill certification test in Cambodia.

## 4. Questionnaire Results

<SET>

### ◆ Assessors: 6 (Respondents: 6)

Satisfaction level:	Very satisfied = 6		
Usefulness level:	Very useful = 6		
Improvement level:	Much improved = 5	Improved = 1	
Needs of continuation:	Must continue = 6		

#### 【Improvements and proposals】

- I wish I could participate in the training course in Japan regarding this trade. (2)
- For study purposes, I wish I could see the operation of skill evaluation in Japan.
- I wish I could observe the actual skills test during the training course in Japan.
- Regarding training for examinees from private companies, I would appreciate if you could design training schedule for them before they take the test.
- I think that the assessors should strengthen their management of materials including those of examinees.

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

- Training assessors on pneumatic system maintenance skill certification.
- I would appreciate if you could continue up to Grade 1. (4)

### ◆ Examinees: 6 (Respondents: 6)

Satisfaction level:	Very satisfied = 3	Satisfied = 2	Not satisfied: 1
Usefulness level:	Very useful = 3	Useful = 3	
Needs of continuation:	Must continue = 2	Should continue = 4	

#### 【Improvements and proposals】

- I wish I could take part in training activities in at least two weeks before taking the test.

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

- Electrical maintenance trade
- PLC related trades
- Feedback control system
- After passing the test, I wish I could visit and take part in a training course at a facility that uses PLCs.
- I would appreciate if you could conduct a training course on sensor installation.
- I would appreciate if you could conduct indoor wiring.

### ◆ Manager: 1 (Respondents: 1)

Needs of continuation: Must continue = 1

**【Improvements and proposals】**

- The expectation from examinees are as follows: (1) training before taking the test, and (2) a certificate of completion from Japan.

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

- I would appreciate if you could continue up to Grade 1.
- I would appreciate if you could conduct a training course in Japan at the same time with the Japanese national skill test for electrical system maintenance. I wish that I could observe the actual test.