

SKILLS EVALUATION SYSTEM

PROMOTION PROGRAM

IMPLEMENTATION RESULT REPORT COLLABORATION TRAINING COURSE

Experts	Mr. Mashiko Toshiya / Plant Maintenance Corporation
Period	Monday, January 8, 2021 ~ Friday, February 26, 2021
Venue	Correspondence Learning (Cambodia, Vietnam, Myanmar)
Training course	Skills Evaluation Method (SEM)
Trade & Grade	Electrical System Maintenance, 3rd grade

March, 2021

1. Outline of Program

【Purpose】

In developing countries in Asia, the cultivation of the development of skilled worker is an issue.

This project is designed to contribute for the cultivation of human resources in these countries by widely disseminating and transfer the know-how of the cultivation of skilled worker who supports a field site of manufacturing that Japan has developed.

【Number of participants】

Cambodia(3), Vietnam(2), Myanmar(2).

2. Contents

As a preparatory study for the next Collaboration Training Course in Japan, the main points of how to create the exam-questions are introduced through correspondence learning. All participants are expected to submit the assignments and be given a feedback and advice by the expert in Japan.

Assignments are consist of the questions for creating theoretical and practical exam questions and correction method.

Theoretical

- Explain the level of 1st to 3rd grade (3rd grade for technical high school graduates, new employees etc.)
 - Explain the level of the exam questions (Know about the basic of xxx etc., and explain the differences in detail)
- ① Write a commentary (Fill in the commentary format with the question and answer)
 - ② Assignment such as changing a 'correct answer question' into a 'wrong answer question' or vice versa.

Practical

Assignment 1

< Title 1 >

- ① Create a sequence with a flowchart representation. (1 question)
- ② Create a sequence with time chart representation. (1 question)
- ③ Create electric circuit diagram. (Hard sequence) (1 question)

< Title 2 >

Present a time chart and answer sequence Blank-questions. (There are several blanks)

< Title 3 >

To create a time chart and sequence circuit diagram using 2 buttons, 2 lamps, 2 relays, and 2timers.

Assignment 2

Present the time chart and circuit diagram to create questions for one disconnection and one unwired.

- ① Use the 3rd grade time chart and circuit diagram.
- ② Assuming unwiring and disconnection on the sequence draw to answer which line to select on the actual wiring diagram
- ③ Write down the reason for choosing unwiring and disconnection.

Material

Materials Title
① Machine Maintenance Skill (Electrical) Outline. pptx
② A difference of the level by Machine Maintenance Skill grade. pptx
③ Theoretical test (Entire) Lite. pptx
④ Theoretical test form (Question 3 , 22, 29) docx
⑤ Theoretical test Lite. xlsx
⑥ Comparison of theoretical test and subject detail Lite. xlsx
⑦ Practical test (Entire) Lite pptx
⑧ Relay timer pass / fail judgment pattern. xlsx

3. Review

- Due to COVID-19, we were unable to hold our annual training in Japan, however, we have successfully implemented the correspondence learning format on-demand (Self-study/submission/correction return) and completed the course even though it was only a minor part of the program originally planned. Consequently we were able to compile the materials and build a foundation for CTC on-demand.
- With the contents revised for 'on-demand correspondence study', which we included not only the existing questions in Japan but also the questions created in accordance with 'skill test questions creating procedure', I hope that all participants from other than Japan understood the essence of this study.
- With this experience, I was able to clarify the contents required for CTC for next year, so I will keep brushing up the contents and look forward to CTC in Japan.

4. Results of questionnaire

<SEM>

◆Participants 7 (Respondents 7)

Satisfaction level:	Very satisfied =3	Satisfied =2	Neither =2
Usefulness level	Very useful =5	Useful =2	Neither =0
Difficulty level:	Very Difficult =1	Difficult =3	Neither =3

【Your experience and learning to be applied to the current job task?】

- I want to apply apps(e.g. MS Forms) or management IT tool more effectively to education field for time-saving and systemization and optimization
- I would like to share what I learned with my students

【Suggestions for additional study for Skill evaluation】

- Standard, regulation, scoring rules, equipment to be used, Management system and scoring list
- Sequence Control
- Motor control system
- Electrical motor
- Electrical wiring
- Additional ladder chart by flow chart
- Skill evaluation system with higher level of knowledge
- I wanted to learn more about evaluation and scoring than how to create test questions
- I wanted to know the difference between Japanese way and Vietnamese way.

【Suggestions for improvement on correspondence study】

- There were some issues caused by PC spec, font letters and translation.
- More test questions on cabling required
- It was great that we did not stop learning, even correspondence study was better than nothing

【Opinions / comments / preferred training session for the future】

- I want to learn how to migrate management system into computer animation and electrical symbol
- Learn how to create test questions on each grade(level)
- Follow the Japanese standard for job-trades
- Japanese standard of HR evaluation process
- Continuation of training
- I want to learn anything Japan recommends
- More I learn, deeper I can understand the Japanese format