

# Erasmus+ project: Qualification, Validation and Certification of Maintenance Personnel

Goto meeting, 20<sup>th</sup> April 2020

## **Present:**

Guðmundur Jón Bjarnason  
Torsten Ekström  
Ilkka Palsola  
Jaakko Tennilä  
Damjan Maletič  
István Páll  
Kiss Attila  
Tomáš Hladík  
Silvia Stepanova

## **Absent:**

Maria Malmrud  
József Csiba  
Mikaela Malmrud  
Jan Skarka  
Ingemar Andreason  
Zsolt Nyeste

## **1) Status regarding creating questions for managers and engineers/supervisors**

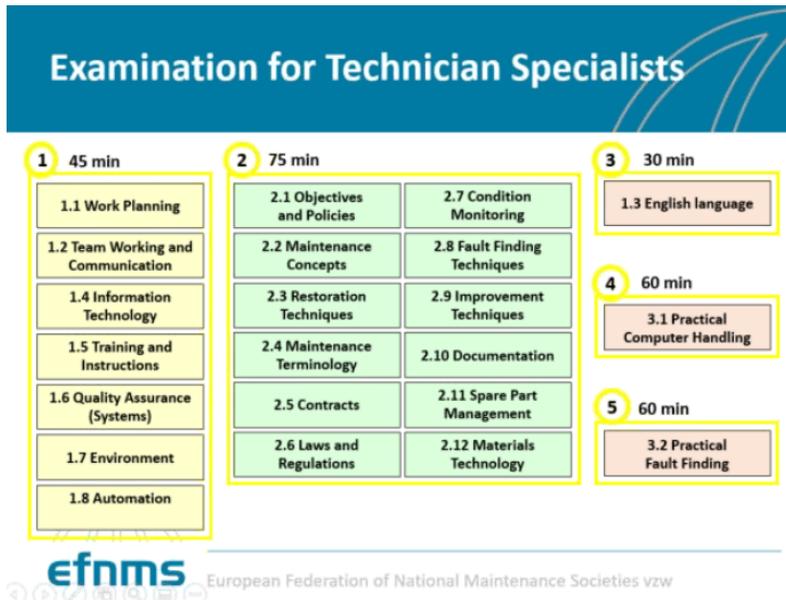
The following was noted:

- Torsten asked all to update the “follow up” document to keep track of how many MCQ have been created.
- Finland: More questions are needed.
- Czech republic: Have about 60 MCQ and 30 OQ.
- Hungary: Things are moving, but not as fast as hoped. The group has been restructured and the team is working on the questions. There are about 45 - 50 questions
- Iceland: Last month was slow, about 40 MCQ have been uploaded in total.
- Slovenia: Have been creating about 5 - 10 questions per week, but would like to have a higher tempo. Some modifications will be proposed to the framework as the team has had problems where to put some questions which they think are important.
- Sweden: Have been doing some work, still some participants are not very active because of COVID19.
  
- Later on we must make sure that we are covering all subjects “evenly” and that we do not have too many alike questions.
- Regarding the difficulty of questions, it should be possible to answer the MCQ in one minute. We can later possibly have groups with more difficult questions, it was suggested to have only a few groups. Points in the Excel sheet indicate how many minutes it takes to answer a question.
- Open questions can take longer than MCQ.

## 2) Pilot exams

One possibility is to use the Moodle system as it used in most European countries. Another option is to use the MZ system, Sweden has been working with that.

Torsten showed the current examination for Technician Specialists



Gudmundur repeated his view that we should work on having the exam in two levels, the first one can be completed with MCQ on-line with some accreditation and the other level later, even a few years later, would address skills and experience. It was agreed that this idea is still very much on the table.

All in all, this is something ECC must be involved in.

## 3) The subject framework

Torsten discussed possible changes to the framework, such as to reordering some chapters for a better flow and to add subjects for general areas under different chapters. There are also some missing chapters, such as “Environment” in chapter four. Damian had also mentioned, see above, that the Slovenian team finds some chapters missing. Torsten will send out proposed changes.

It was pointed out that we should be careful using the standards, as some of them will be changed. We will not be able to follow all available standards. Our focus is still on EN17007, EN15628 and EN13306. EN15628 will most likely be revised soon.

It was also discussed that we must continue to have a firm background for our work, such as the EN17007 and EN15628 standard (but how will the revised version be?)

**4) Other issues**

It was discussed how we can get the EFNMS committees involved. It is important to get the committees involved but it is also important to have a good approach for doing that.