



SEM-SEM



Smart Control Systems for Energy Management

Erasmus + #: 561703-EPP-1-2015-1-UK-EPPKA2-CBHE-JP

Evaluation Report

**for the training held on the 12th to
the 14th of February 2019 at IST, in
Lisbon, Portugal**



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a. Introduction – Purpose of this Document

As foreseen in the project proposal and, consequently, in the SEM-SEM QA Plan, the QA of the SEM-SEM project will be continuous; thus, will be implemented throughout the project lifetime. Evaluation is necessary to improve the quality of the project and its products. According to the proposal and the Work Package 12 (Quality Plan), EUROTraining is responsible for monitoring the progress of the activities and gathering the results and going on to compose the relevant reports. For this reason, after each and every session (training/workshop/project meeting), a questionnaire should be filled in by all participants.

In the aforementioned framework, this evaluation report aims at outlining the outcomes of the training that was held in Lisbon on the 12th to the 14th of February 2019. EUROTraining used Google Forms in order to create the questionnaire and easier distribute it to participants. Google Forms is part of Google's online apps suite of tools, it's user – friendly and provided for free.

In total, twenty three responses were gathered.

b. Results' Analysis

This part of the document contains a summary and statistical analysis of the answers given by the training's participants. Graphs are included so that the analysis is understandable easily.

Question 1: "Name and Surname" (optional)

The first question of the evaluation questionnaire was about the name and surname of the respondents. As participants in evaluations tend to prefer to keep their anonymity during the process, this question was not obligatory. However, twenty-two out of twenty-three participants chose to answer this question.

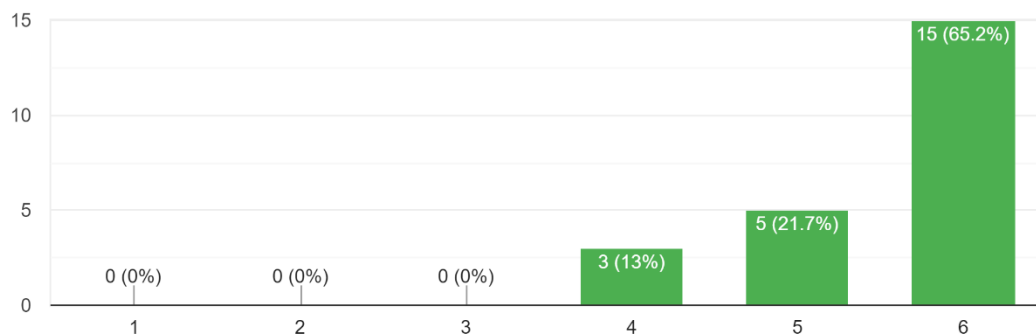


Question 2: “Profession/Institute” (optional)

The second question was, also, about some personal information of the respondents, namely their profession or institute. That kind of information can be very useful for the evaluation, as it would be good to know how participants are related to the project and its objectives.

Question 3: “The objectives of the training were clearly defined”

23 responses

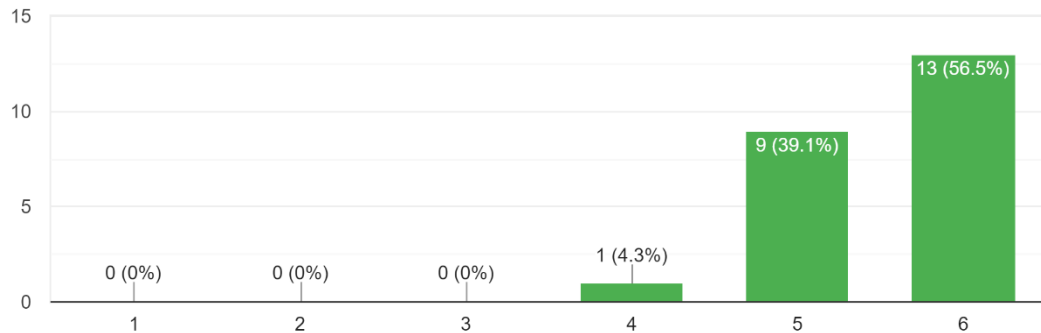


To begin with, participants were asked to evaluate the clarity of definition of the training’s objectives. As the graph shows, the majority of participants (65.2%) “Totally agreed” that the training’s objectives were clearly defined, while another five (21.7%) “Agreed”. There were also three participants (13%) who “Rather agreed”. The results show that generally the participants were satisfied and felt clearly and well-informed on the definition of objectives of the training they attended.



Question 4: “Selection and topics were appropriate to my role and responsibilities”

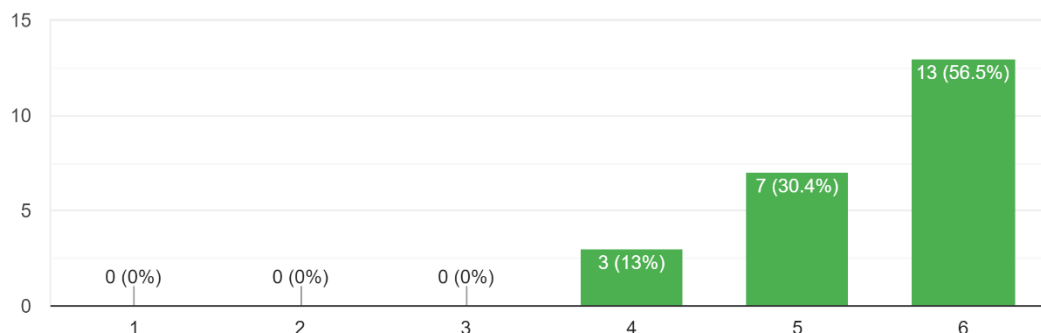
23 responses



Regarding the topics of the training, the participants' impressions were positive. More specifically, thirteen out of twenty – three participants (56.5%) “Totally agreed” that the selected topics were appropriate to their roles and responsibilities, nine (39.1%) “Agreed”, and only one (4.3%) “rather agreed”. As the results indicate, the training included topics that matched the participants' roles and responsibilities and were relevant to their careers interests.

Question 5: “The training improved my understanding of the subject”

23 responses



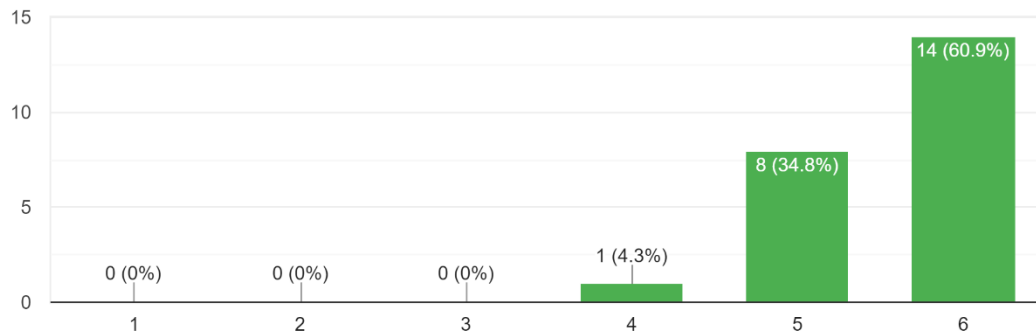
Participants were also asked to evaluate the improvement of their understanding of the relevant subject through the training. As the graph shows, most participants (56.5%) “totally agreed”, another seven (30.4%) “agreed”, and three (13%) “rather agreed” that their understanding on the subject was



improved after the training. The participants' positive response shows that training managed to enrich the participants' knowledge while the subjects' taught complemented their educational background and experience.

Question 6: "I will be able to apply the knowledge acquired"

23 responses

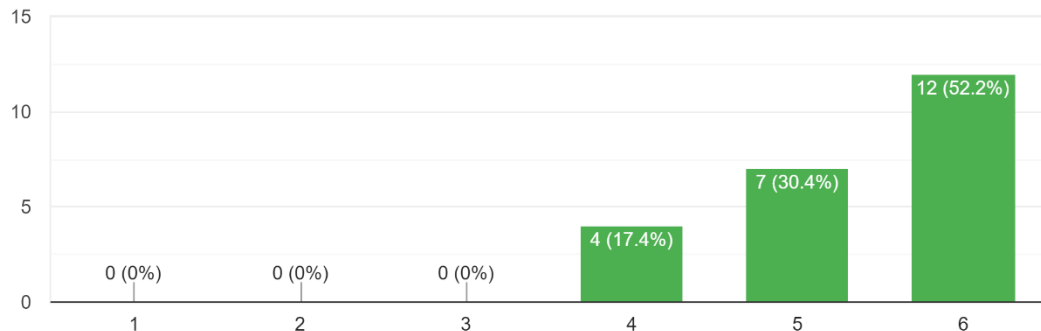


It is important for a training session to provide the participants with knowledge that they could apply after the training finishes. As the results indicate, fourteen out of twenty – three participants (60.9%) "totally agreed" that they will be able to apply the knowledge they acquired, while eight (34.8%) "agreed" and only one (4.3%) "rather agreed". The positive feedback of the participants indicates that the knowledge acquired is meaningful and applicable to the participants' profession and has the potential to enrich their work life.



Question 7: “Visual and supporting material were useful and easy to follow”

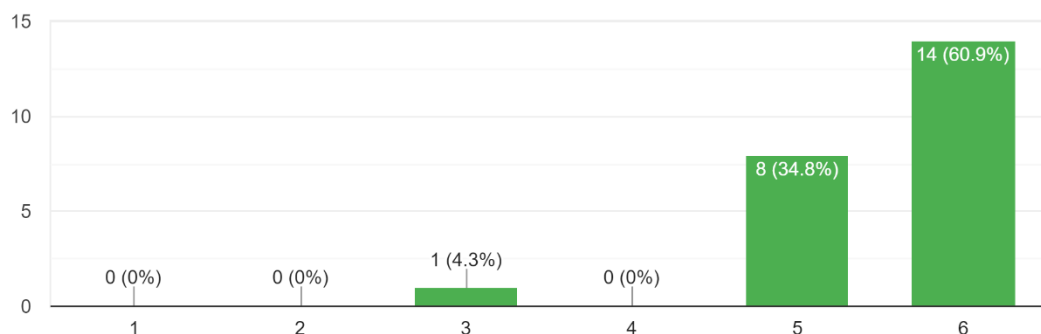
23 responses



In that question, participants were asked to evaluate the visual and supporting material that was used during the training, especially with regard to its usefulness and how easy it was to follow. Most participants (52.2%) “totally agreed” that the material was useful and easy to follow, while seven participants (30.4%) “agreed” and four participants (17.4%) “rather agreed”. It seems that respondents were very satisfied by the visual and supporting material and the way it complemented the training process.

Question 8: “Participation and interaction were encouraged”

23 responses



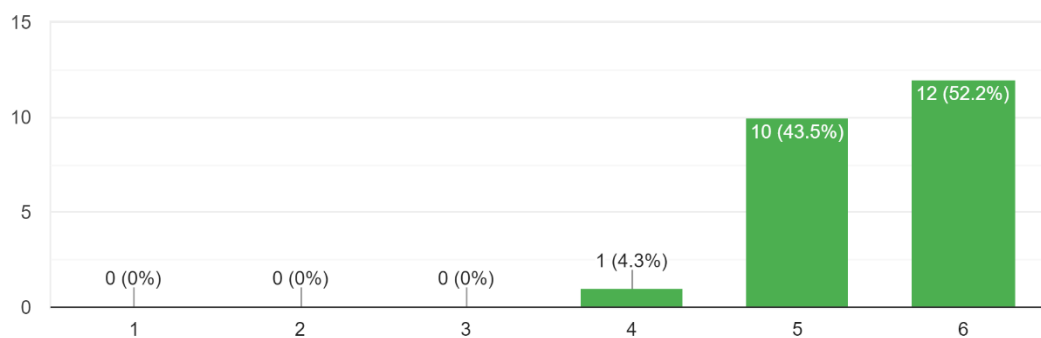
Except for the training content, another important aspect of an effective training session is the participation and interaction of the participants involved. As results indicate, the majority of participants (60.9%) “totally agreed” that they



were encouraged to participate and interact during the training, while eight participants (34.8%) “agreed”. There was also one participant (4.3%) who “rather disagreed”. In general, participants were satisfied by that aspect of the training, which can surely contribute to an overall positive evaluation.

Question 9: “There was a correct balance between theoretical exercises and discussion”

23 responses

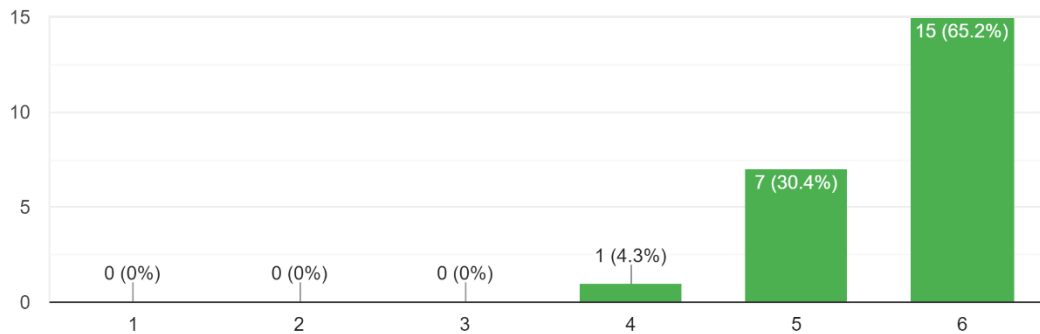


The balance between theoretical exercises and discussion was also evaluated and generally positive responses were elicited. More specifically, twelve out of twenty – three participants “totally agreed” that the relevant balance was correct, ten participants (43.5%) “agreed” while one participant (4.3%) “rather agreed”. From the results it seems that there is a correct balance between theoretical exercises and discussion that improves the training experience of the participants.



Question 10: “The trainer was well prepared”

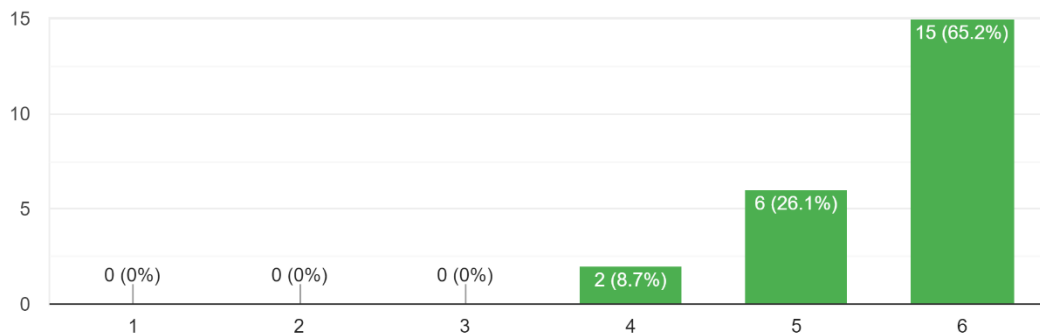
23 responses



The participants also evaluated to which extent the trainer was well-prepared for the training. Fifteen out of twenty – three participants (65.2%) “totally agreed” that the trainer was well – prepared, seven (30.4%) “agreed”, while one (23.8%) “rather agreed”. As per the graph, it seems that the participants appreciated the trainer’s performance.

Question 11: “The training objectives were met”

23 responses

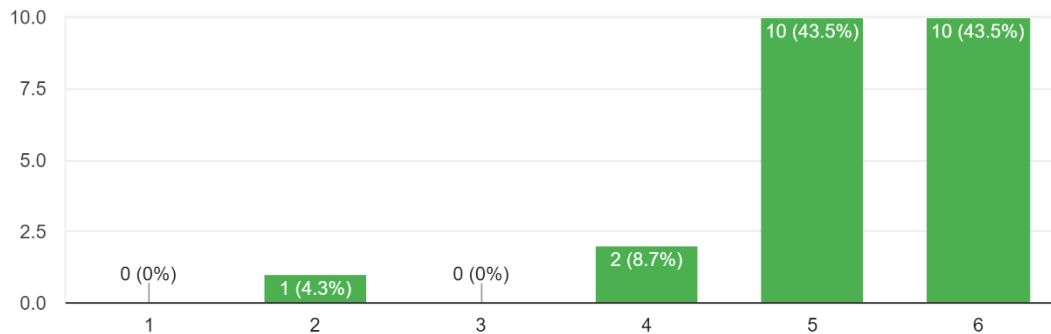


An important part of an effective training is the achievement of its initial objectives. As the above graph indicates, the majority of participants (65.2%) “totally agreed” that the training’s objectives were met, six participants (26.1%) “agreed” while two (8.7%) “rather agreed”. It seems that the participants were satisfied with the level of achievement of the set objectives of the training.



Question 12: “How do you rate the duration, date and timing of the training?”

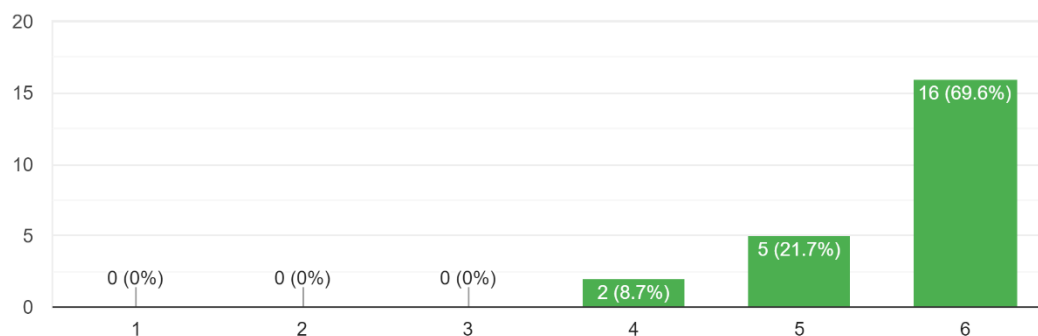
23 responses



A contributing factor to the success of the training is the duration, date, and timing that can help participants organize their studies and make the most out of the training. Results here are quite encouraging as ten respondents (43.5%) characterized those features of the training as “Excellent”, ten (43.5%) thought of duration, timing and date as “Very good”, two (8.7%) as “Good” and only one participant characterized these aspects as “Poor”.

Question 13: “Overall evaluation of the training”

23 responses



In that question, participants were asked to express their opinion on their overall training experience. Most participants’ answers were positive, as 16 out of twenty – three (69.6%) evaluated it as “Excellent”, five (21.7%) as “Very good”, and two (8.7%) as “Good”. The results show that the programme generally managed to fulfil its goals and match the participants’ expectations.



Question 14: “Which topics would you suggest for future training sessions?”

This question was an open – ended question where participants were asked to recommend topics to be included to the next trainings. There were only six suggestions provided.

6 responses

How various elements of the 4th industrial revolution can enhance such applications of energy efficiency within buildings (disruptive technologies; IOT, etc.).

Smart materials in energy management.

Visit to a renewable energy electrical power plant

Smart Homes Energy Management

The Visit was for field of on spot energy management facilities. The best was the management system for reducingn 30% of energy consumption for the biggest hotel in Lisbon

Energy Saving

Question 15: Which aspects do you think could be improved for the next training sessions? Any additional comments?

The last question of the evaluation was, also, an optional open – ended question, where participants had the opportunity to suggest any possible improvements for the next trainings or make any additional comment. Nine participants chose to fill in this question and their insights will be valuable for the training’s improvement.



9 responses

The idea of field visits is really good and useful and I have found it very beneficial.. so focusing on improving similar field visits with details about the project/case is really good for future training.
Finally, thank you for organising such training workshop, I have found it very useful and informative - I enjoyed Lisbon very much and the nice weather, and I hope I can come back again (thank you ALL).

Having supporting materials

Submission of pamphlets during the session to follow-up with the instructor

NoN

The visit met exactly all its objectives

Training be more concentrated on certain topic

Presentations from the participants

Length of sessions

Thanks

Sent the program before training by suitable time (one week at least) to check and study some information before start the training

c. Final Remarks

The evaluation of the training was conducted through an on – line questionnaire that consisted of fifteen questions: two optional regarding some personal information of the respondents, eleven evaluating questions of linear scale (1: I totally disagree // 2: I disagree // 3: I rather disagree // 4: I rather agree // 5: I agree // 6: I totally agree or 1: Very poor // 2: Poor // 3: Balanced // 4: Good // 5: Very good // 6: Excellent, depending on the type of the question), and two optional, open – ended question for recommendations and additional comments.

As the analysis of the evaluation's results indicates, training can be, in general, characterized as successful. Answers expressed different opinions but most of them were positive.

It seems that all aspects of the training from the well – preparedness of the trainer and the encouragement of participation and interaction during the training to the duration, date and timing of the training and achievement of the training's initial objectives managed to meet the participants' expectations and cover their needs.