



**DEVELOPING OF DANGEROUS GOODS SAFETY  
ADVISORS' FIELD APPLICATION COMPETENCIES  
PROJECT**

**PILOT TRAINING PROGRAM FOR  
DGSAs AND DGSA TRAINER**

**INTERNATIONAL REPORT**



Co-funded by the  
Erasmus+ Programme  
of the European Union

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## Introduction

This Project was designed with the aim of supporting *Dangerous Goods Safety Advisers* (DGSAs) in the performance of their duties under ADR.

In Intellectual Output 3 the up to now **developed outputs were tested in Pilot Trainings**. The aim of the testing is to focus on the overall quality of the learning content and methodology and on the relevance of the identified training material and coherence with the need of the users. Furthermore the testing focuses on the correspondence of the training content to the target groups needs and abilities.

In this document the **results of the Pilot Trainings for DGSAs and DGSA Trainer in each partner country** (Turkey, Italy, Spain and Austria) are summarized and presented.

### The developed outputs to evaluate

- The **DGSA competence map** is the result of the second output of the DGSAs - FAC project. The main aim of the competence map is to list a common set of the professional competences, skills, and knowledge to be developed with the training
- The **training program** (which consists of **13 training modules**) is developed as the OER 'Open Education Resources' is freely accessible to support DGSAs to improve their activities. Training Modules 1 - 9 relate to practical aspects concerning the implementation of the provisions in chapters 1, 2, 4, 5, 7 and 8 of the ADR. The training modules 10 - 13 are focused on the Site Practices of DGSAs.
- The **OER platform** for the DGSA - FAC training program is based on h5p technology. It provides flexibility, is equipped with all necessary features and offers open education courses for a wider audience. This platform houses the training modules as interactive material, videos, ppt files, PDF files, tests and quizzes in English and the national languages of the partner.

### The Structure of the testing

The **target groups** are the potential users of the outputs subject to testing. The target group members included in total **63 DGSAs** and **40 DGSA Trainer**.

The **24hours training for DGSA**s and the **16hours training for DGSA trainer** were held in the way of an **Online format** in the timeframe from Aug 21 – May 22 (Turkey: Sept 21 / Italy: Aug 21 - May 22 / Spain: Sept 21 – May 22 / Austria: Sept 21 – Feb 22).

The developed outputs and the content in different media forms (presentations, readings, videos, quizzes,..) were explained and presented by the national partner and then **tested independently by the participants**.

For the evaluation of the developed contents, the jointly designed **Feedback Questionnaire** was made available.

The questionnaire consisted of 5 parts:

- OVERALL QUALITY
- QUALITY OF DGSA – FAC COMPETENCE MAP
- QUALITY OF DGSA – FAC TRAINING MODULES
- QUALITY OF OER E-LEARNING PLATFORM
- GENERAL EVALUATION

and a total of 27 questions.

In the questionnaire were used two types of questions:

- The participants had to tick the best option that reflects their opinion corresponding to the statements according to the following scale:
  - 1 – strongly disagree
  - 2 – do not agree
  - 3 – undecided
  - 4 – agree
  - 5 – totally agree
- Open questions for appropriate feedback, comments and suggestions

A **National Report** to summarise the processes, the activities, the feedback, the improvements and the changes needed was prepared in each partner country.

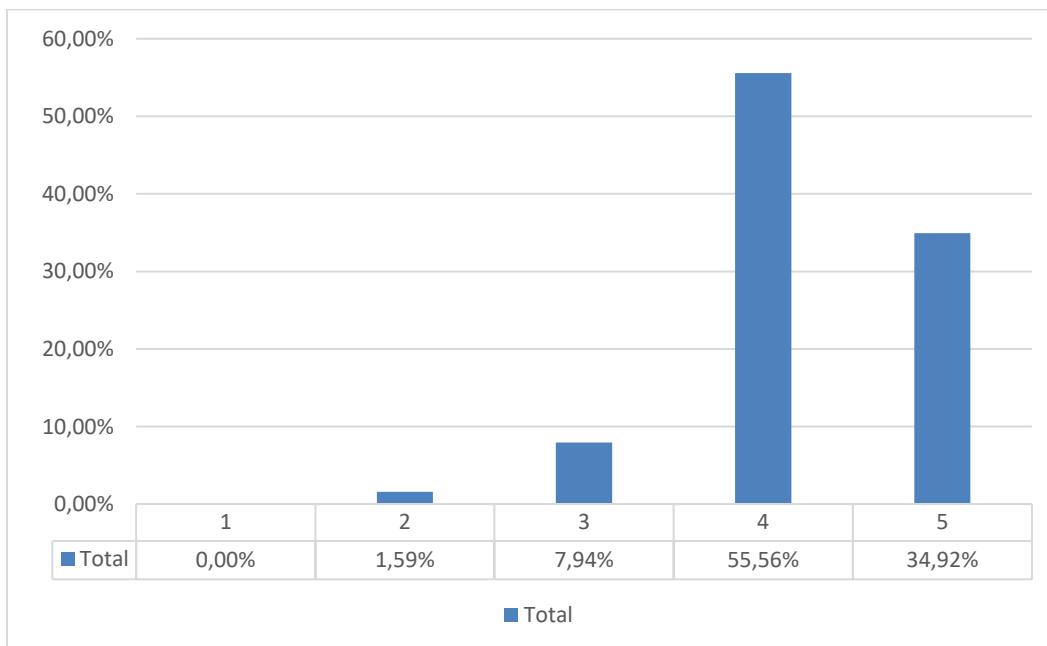
The leading partner of the IO 3 (BIT) **summarised the National Reports** and prepared together with all partner this **International Report**.

# 1. Evaluation of Pilot Training for DGSA's

## OVERALL QUALITY

**Q1) The overall quality of the training programme is very good**

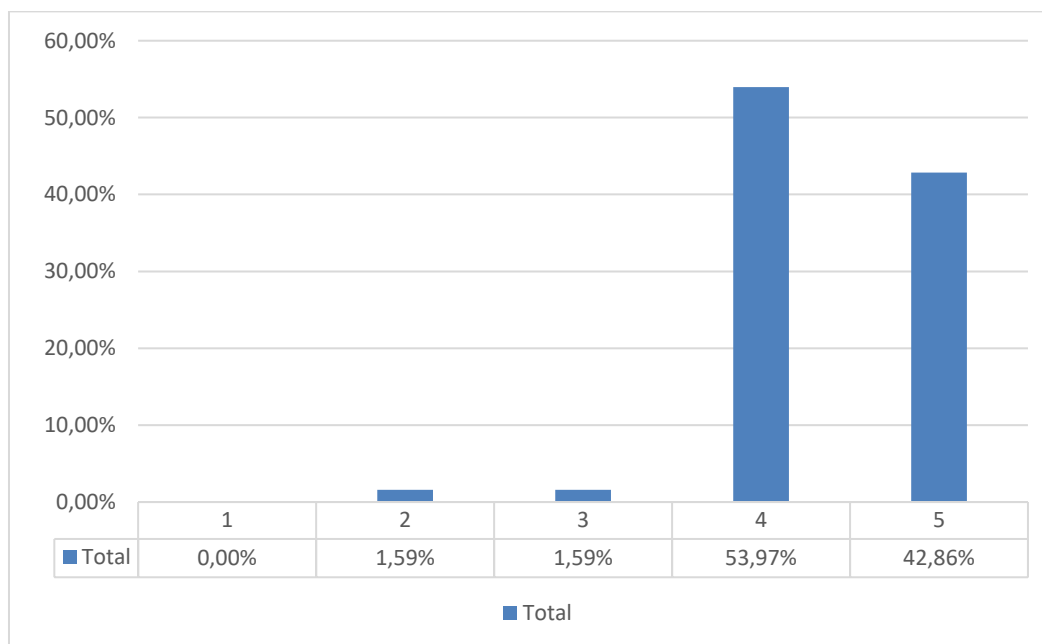
	Total		Turkey	Italy	Spain	Austria
1	0,00%	0	0	0	0	0
2	1,59%	1	1	0	0	0
3	7,94%	5	4	0	0	1
4	55,56%	35	8	10	9	8
5	34,92%	22	4	6	6	6
		63	17	16	15	15



More than 90% of the participants rate the training programme to be very good.

## Q2) The training material produced is clear and easy to understand

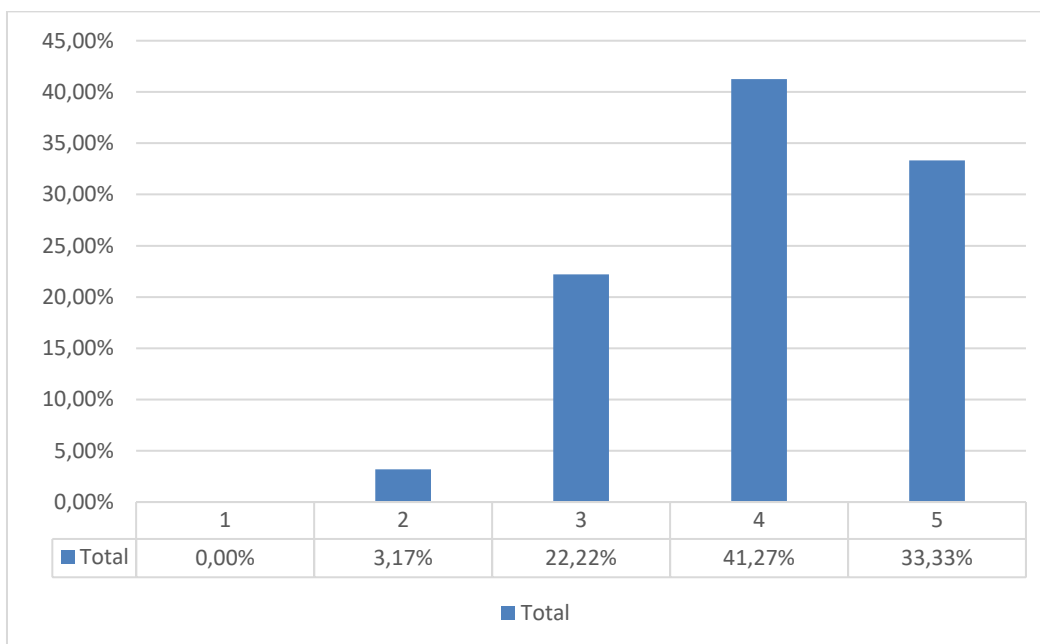
	Total		Turkey	Italy	Spain	Austria
1	0,00%	0	0	0	0	0
2	1,59%	1	1	0	0	0
3	1,59%	1	0	0	0	1
4	53,97%	34	8	10	9	7
5	42,86%	27	8	6	6	7
		63	17	16	15	15



More than 96% of the participants find the produced training material clear and easy to understand.

### Q3) The training programme was valuable for me to gain new knowledge and skills

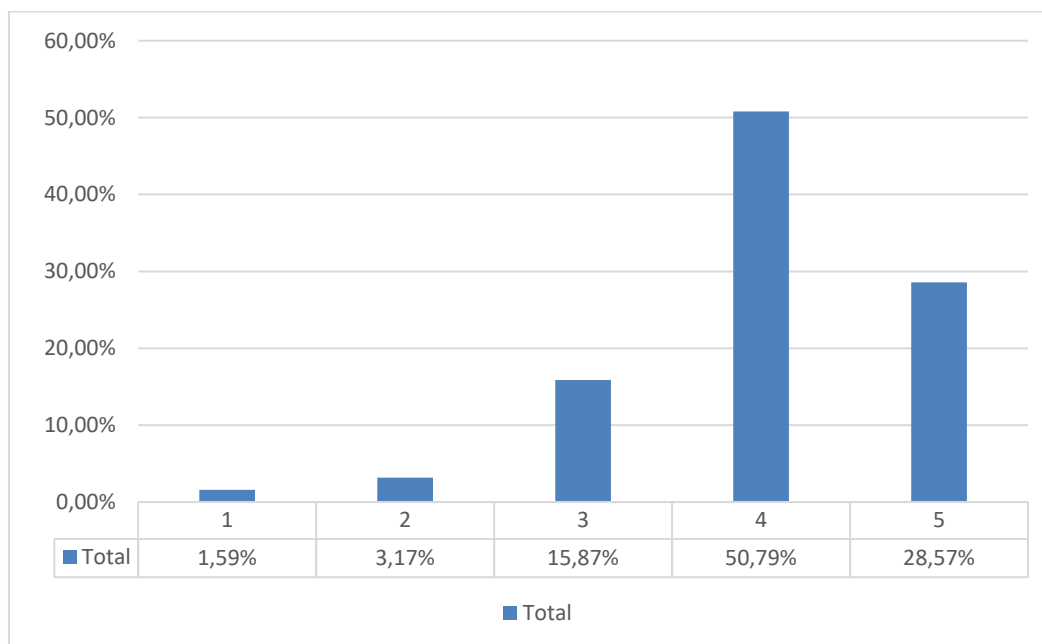
	Total		Turkey	Italy	Spain	Austria
1	0,00%	0	0	0	0	0
2	3,17%	2	2	0	0	0
3	22,22%	14	7	2	2	3
4	41,27%	26	3	8	7	8
5	33,33%	21	5	6	6	4
		63	17	16	15	15



More than 74% of the participants found that the training program was valuable to gain new knowledge and skills.

#### Q4) I will utilise the knowledge and skills gained during the training in my life

	Total		Turkey	Italy	Spain	Austria
1	1,59%	1	0	1	0	0
2	3,17%	2	1	0	0	1
3	15,87%	10	4	2	1	3
4	50,79%	32	4	10	10	8
5	28,57%	18	8	3	4	3
		63	17	16	15	15



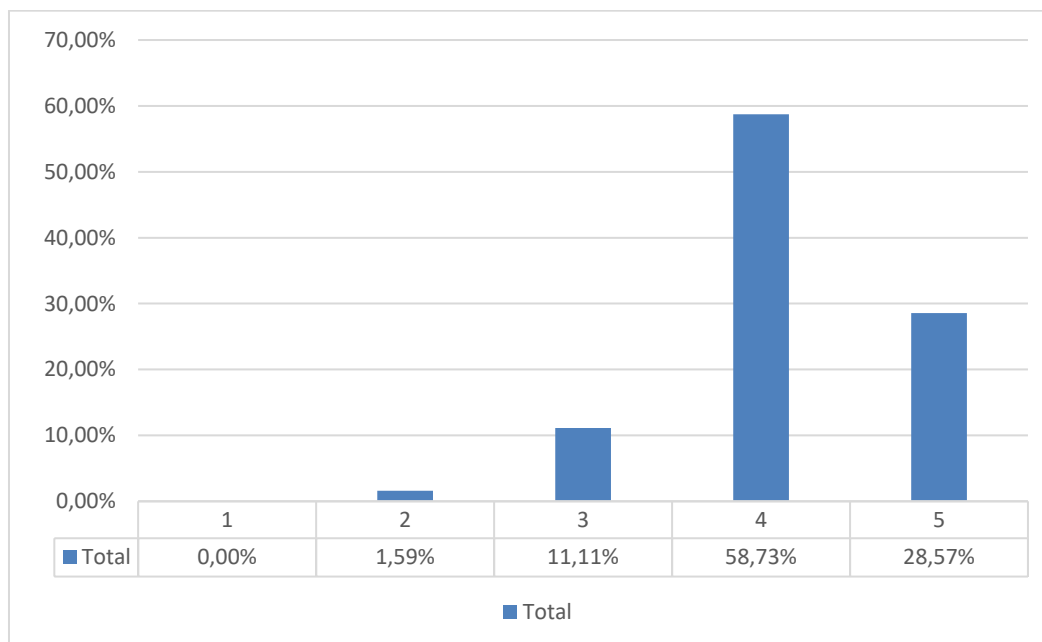
More than 79% of the participants will use the knowledge and skills gained during the training.



**QUALITY OF DGSA – FAC COMPETENCE MAP**

**Q5) I am satisfied with the competence map for all the modules**

	Total		Turkey	Italy	Spain	Austria
1	0,00%	0	0	0	0	0
2	1,59%	1	1	0	0	0
3	11,11%	7	3	0	0	4
4	58,73%	37	6	13	11	7
5	28,57%	18	7	3	4	4
		<b>63</b>	17	16	15	15



More than 87% of the participants are satisfied with the competence map.

**Q6) Please state if the competence map has not met your needs. What could be changed or improved?**

The majority of the participants were satisfied with the presentation of the competences in the developed matrix.

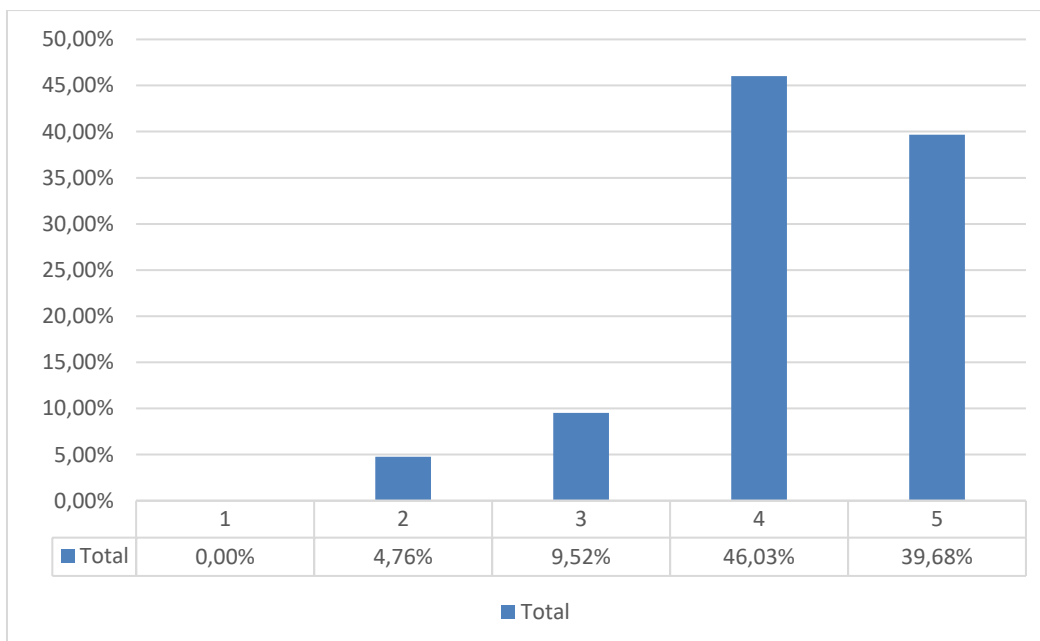
Selected Comments for improvement:

- I think it is a useful tool and does not need to be changed.
- It is a useful tool and helps to develop missing skills
- Some minor errors
- some minor errors in translation etc. that should be revised

**QUALITY OF DGSA – FAC TRAINING MODULES**

**Q7) I am satisfied with the content of the Module 1 - Scope and Applicability, Definition**

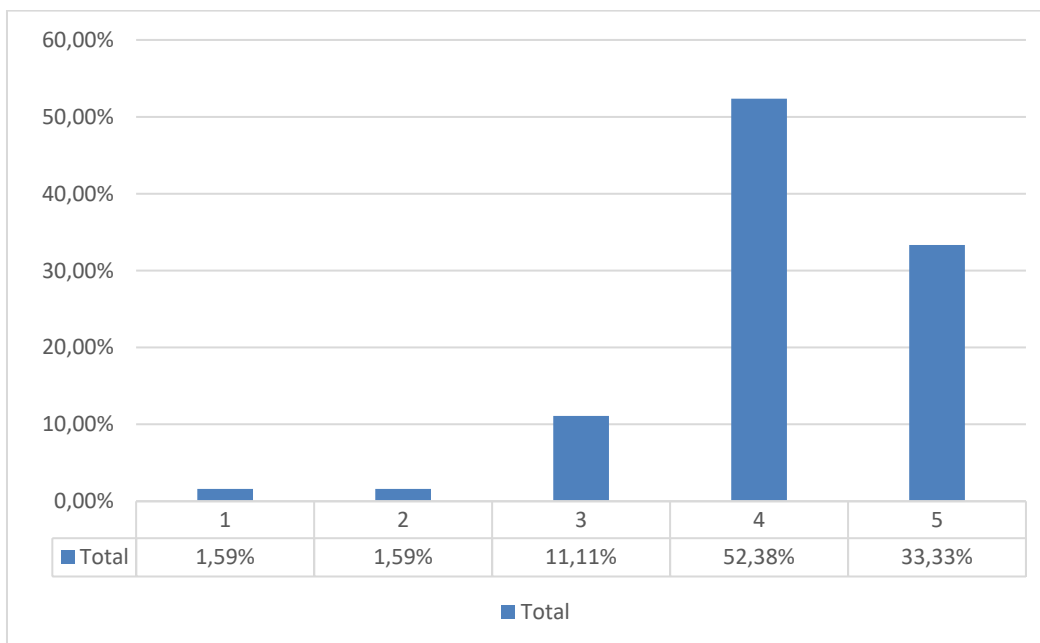
	Total		Turkey	Italy	Spain	Austria
1	0,00%	0	0	0	0	0
2	4,76%	3	3	0	0	0
3	9,52%	6	2	1	1	2
4	46,03%	29	6	6	10	7
5	39,68%	25	6	9	4	6
		63	17	16	15	15



More than 85% of the participants are satisfied with Module 1

### Q8) I am satisfied with the content of the Module 2- Classification of Dangerous Goods

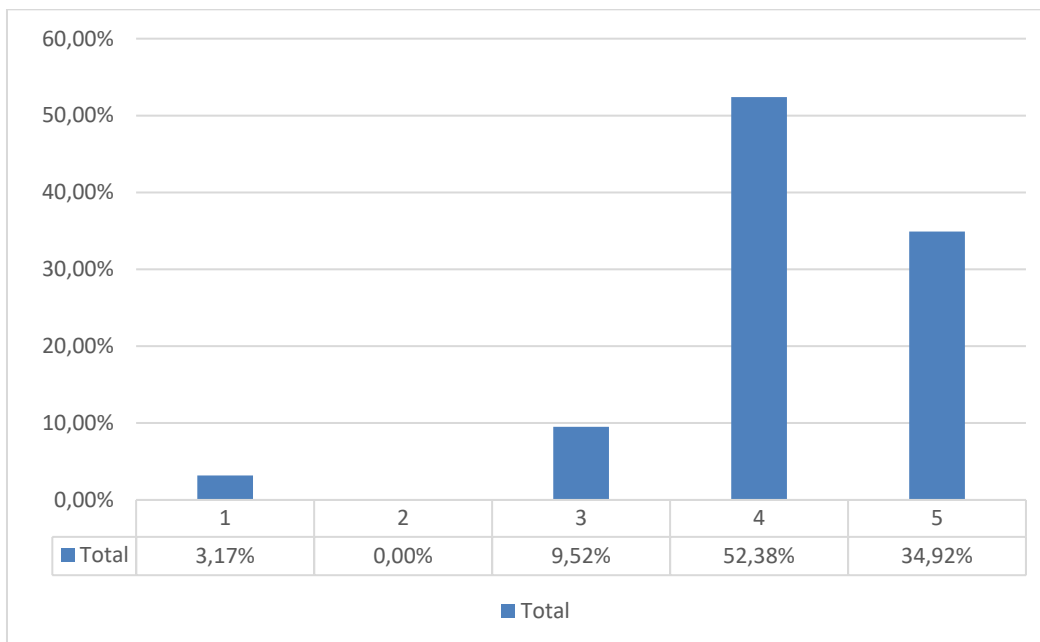
	Total		Turkey	Italy	Spain	Austria
1	1,59%	1	1	0	0	0
2	1,59%	1	1	0	0	0
3	11,11%	7	3	1	1	2
4	52,38%	33	5	9	11	8
5	33,33%	21	7	6	3	5
		63	17	16	15	15



More than 85% of the participants are satisfied with Module 2.

**Q9) I am satisfied with the content of the Module 3 - Use of Packaging including IBCs and Large Packagings**

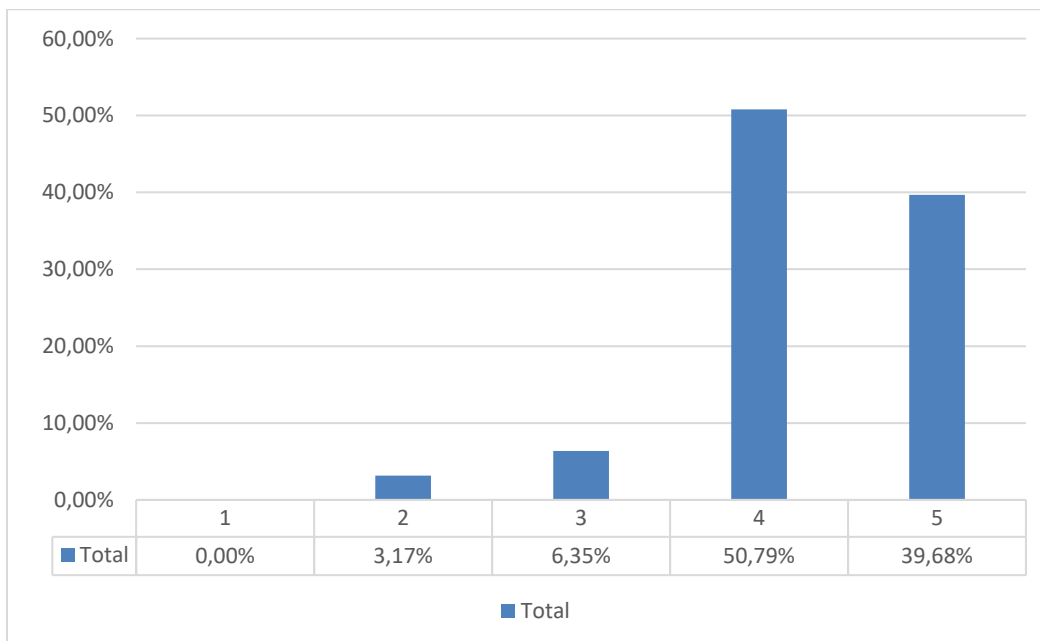
	Total		Turkey	Italy	Spain	Austria
1	3,17%	2	2	0	0	0
2	0,00%	0	0	0	0	0
3	9,52%	6	1	1	1	3
4	52,38%	33	7	9	10	7
5	34,92%	22	7	6	4	5
		63	17	16	15	15



More than 87% of the participants are satisfied with Module 3.

**Q10) I am satisfied with the content of the Module 4 - Use of fixed tanks, demountable tanks, tank-containers, and tank swap bodies with shells made of metal, and battery-vehicles, and MEGCs**

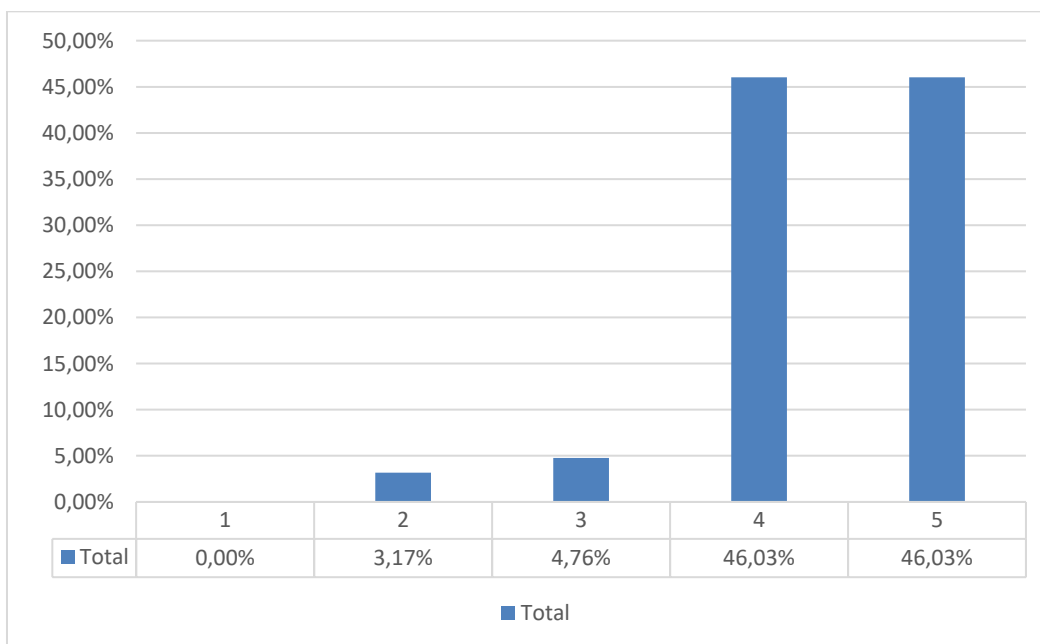
	Total	Turkey	Italy	Spain	Austria
1	0,00%	0	0	0	0
2	3,17%	2	0	0	0
3	6,35%	4	0	0	2
4	50,79%	32	6	8	7
5	39,68%	25	7	8	6
		63	17	16	15



More than 90% of the participants are satisfied with Module 4.

### Q11) I am satisfied with the content of the Module 5 - Use, Labelling, and Marking of Packagings

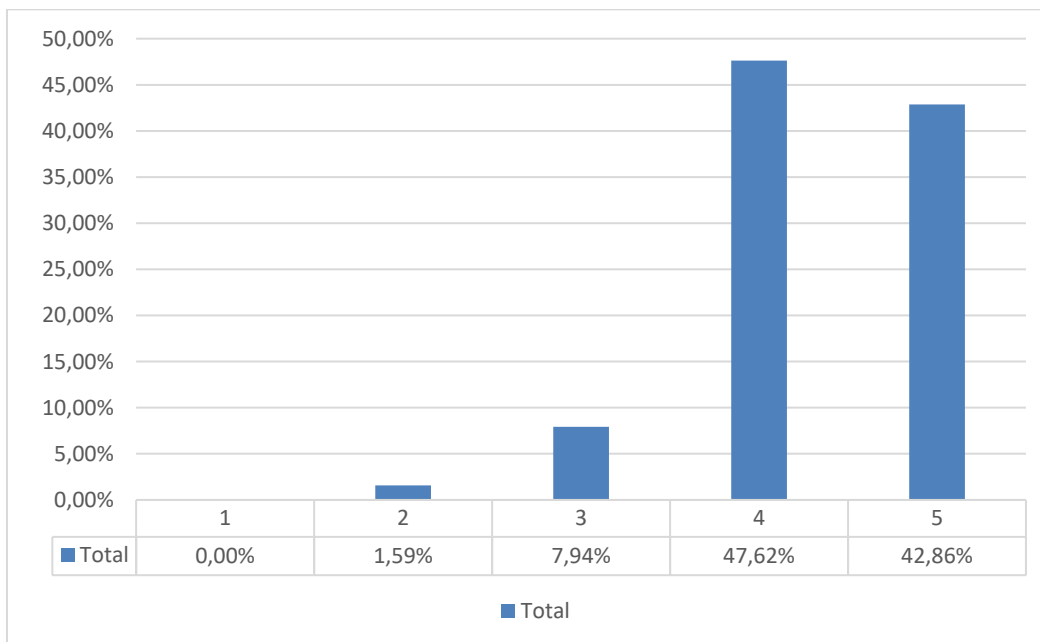
	Total		Turkey	Italy	Spain	Austria
1	0,00%	0	0	0	0	0
2	3,17%	2	2	0	0	0
3	4,76%	3	1	0	0	2
4	46,03%	29	6	9	7	7
5	46,03%	29	8	7	8	6
		63	17	16	15	15



More than 92% of the participants are satisfied with Module 5.

**Q12) I am satisfied with the content of the Module 6 - Placarding of Containers, MEGCs, MEMUs, Tank-Containers, and Portable Tanks and Vehicles**

	Total		Turkey	Italy	Spain	Austria
1	0,00%	0	0	0	0	0
2	1,59%	1	1	0	0	0
3	7,94%	5	2	0	0	3
4	47,62%	30	6	9	8	7
5	42,86%	27	8	7	7	5
		63	17	16	15	15

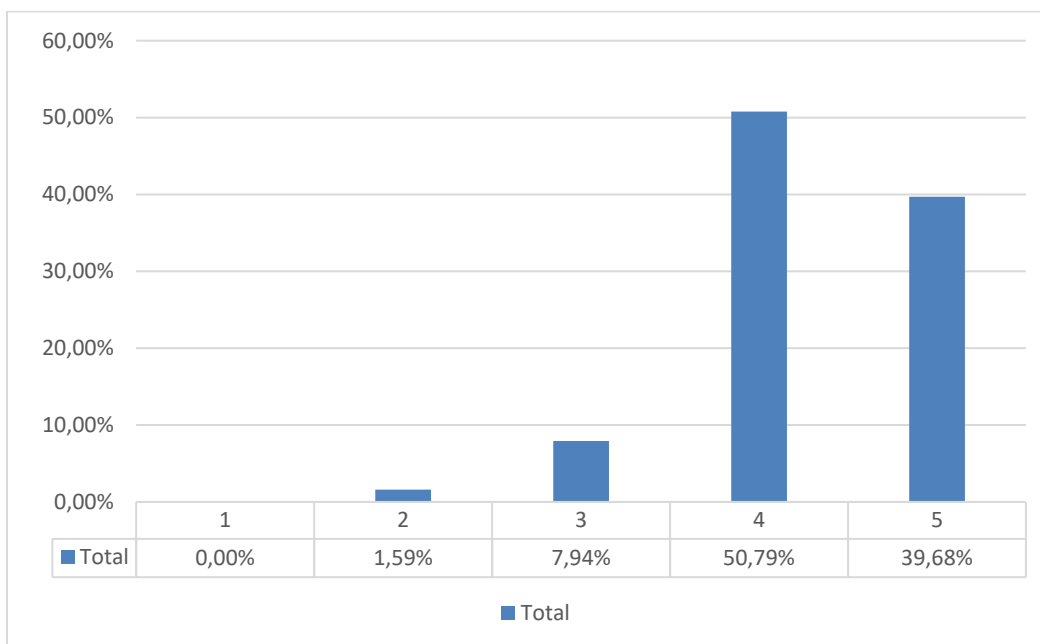


More than 90% of the participants are satisfied with Module 6.



**Q13) I am satisfied with the content of the Module 7 - Documentation and special provisions**

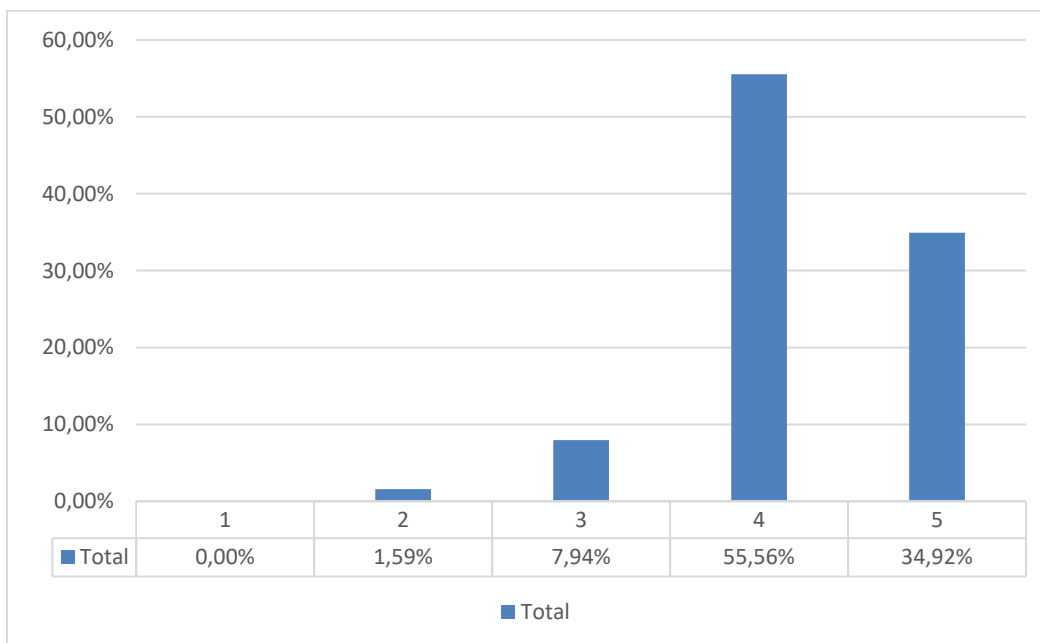
	Total		Turkey	Italy	Spain	Austria
1	0,00%	0	0	0	0	0
2	1,59%	1	1	0	0	0
3	7,94%	5	3	0	0	2
4	50,79%	32	6	11	9	6
5	39,68%	25	7	5	6	7
		63	17	16	15	15



More than 90% of the participants are satisfied with Module 7.

**Q14) I am satisfied with the content of the Module 8 - Provisions Concerning the Conditions of Carriage, Loading, Unloading and Handling**

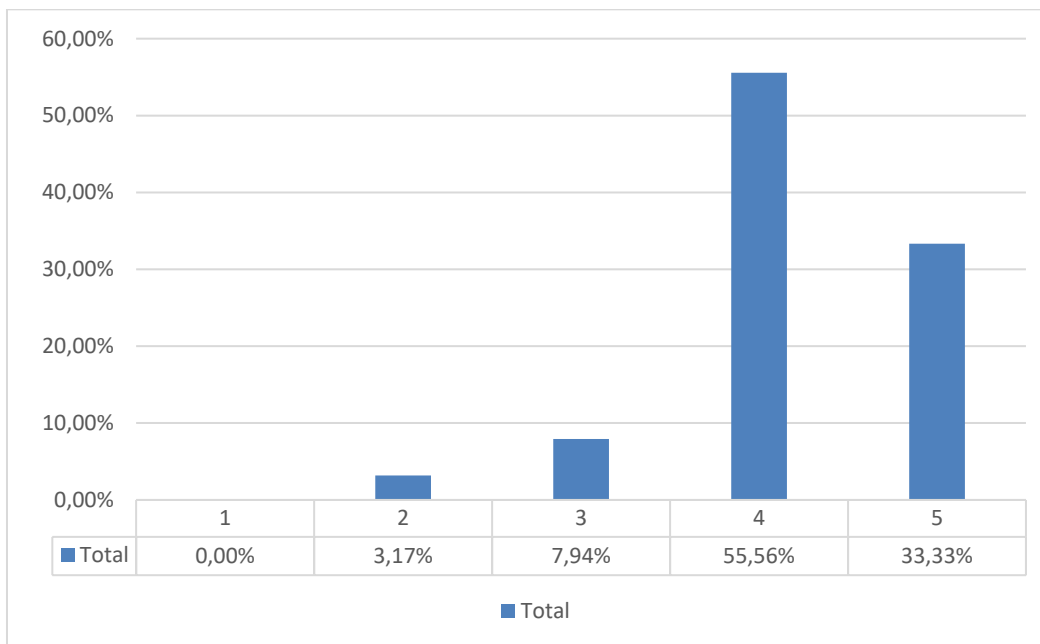
	Total		Turkey	Italy	Spain	Austria
1	0,00%	0	0	0	0	0
2	1,59%	1	1	0	0	0
3	7,94%	5	3	0	0	2
4	55,56%	35	7	11	10	7
5	34,92%	22	6	5	5	6
		63	17	16	15	15



More than 90% of the participants are satisfied with Module 8.

**Q15) I am satisfied with the content of the Module 9 - Requirements for Vehicle Crews, Equipment, Operation, and Documentation**

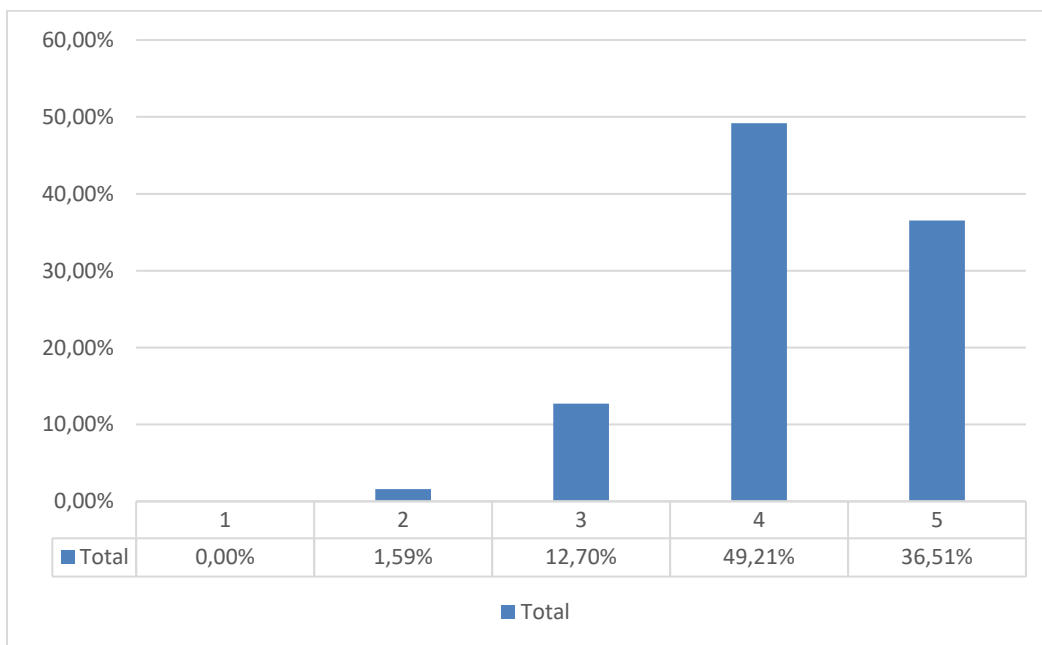
	Total		Turkey	Italy	Spain	Austria
1	0,00%	0	0	0	0	0
2	3,17%	2	2	0	0	0
3	7,94%	5	3	0	0	2
4	55,56%	35	5	11	11	8
5	33,33%	21	7	5	4	5
		63	17	16	15	15



More than 89% of the participants are satisfied with Module 9.

**Q16) I am satisfied with the content of the Module 10 - Duties and Responsibilities of DGSA's**

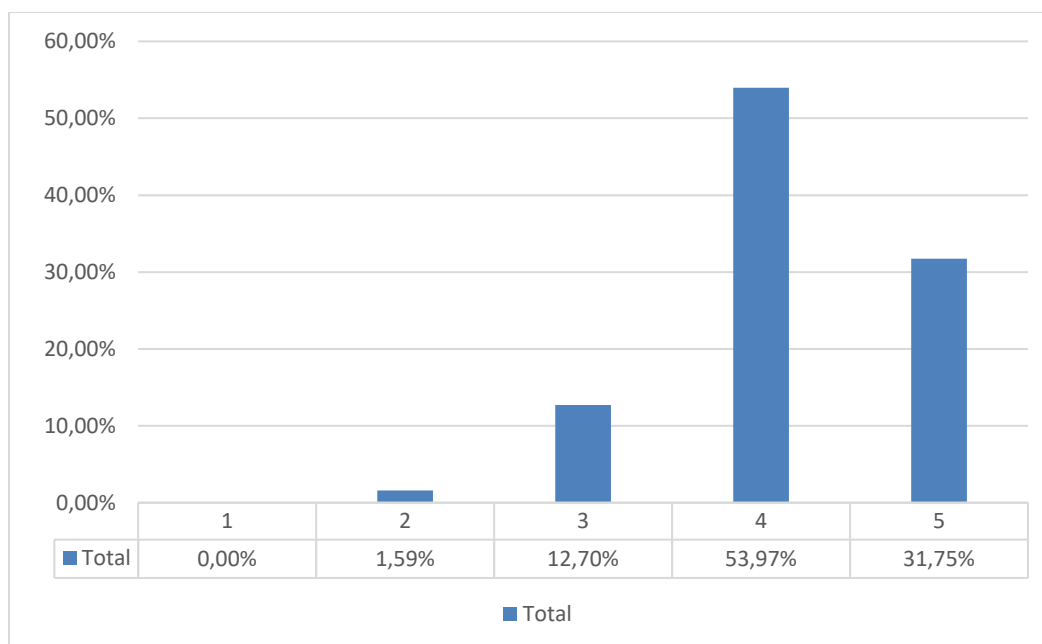
	Total		Turkey	Italy	Spain	Austria
1	0,00%	0	0	0	0	0
2	1,59%	1	1	0	0	0
3	12,70%	8	4	0	1	3
4	49,21%	31	5	10	9	7
5	36,51%	23	7	6	5	5
		63	17	16	15	15



More than 85% of the participants are satisfied with Module 10.

### Q17) I am satisfied with the content of the Module 11 - Step-by-Step Site Analysis

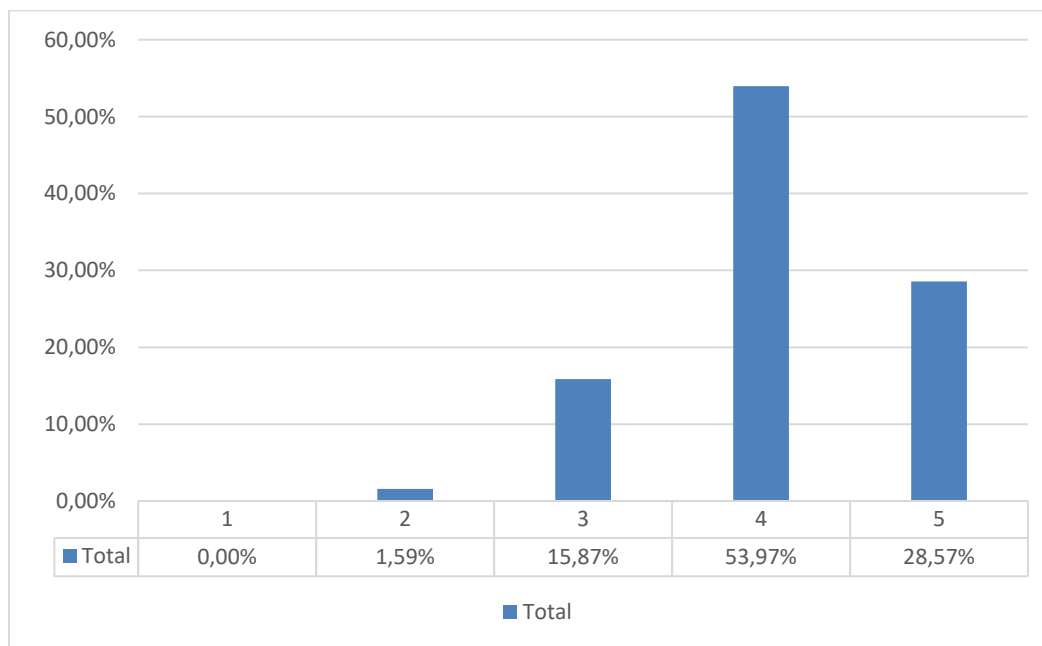
	Total		Turkey	Italy	Spain	Austria
1	0,00%	0	0	0	0	0
2	1,59%	1	1	0	0	0
3	12,70%	8	4	0	1	3
4	53,97%	34	7	10	10	7
5	31,75%	20	5	6	4	5
		63	17	16	15	15



More than 85% of the participants are satisfied with Module 11.

### Q18) I am satisfied with the content of the Module 12 - Required Documentation and Forms

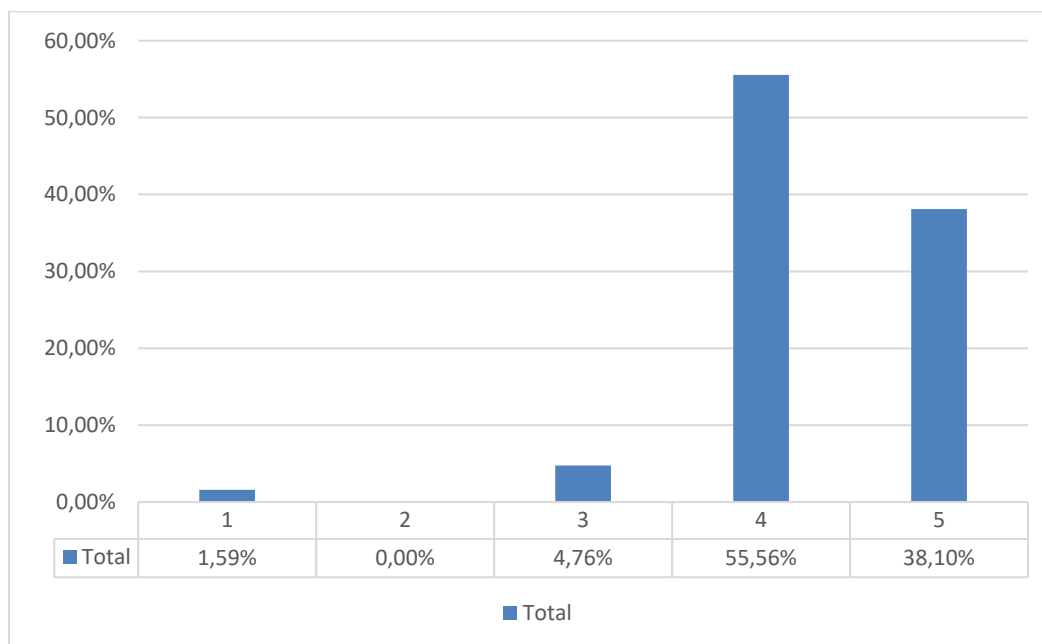
	Total		Turkey	Italy	Spain	Austria
1	0,00%	0	0	0	0	0
2	1,59%	1	1	0	0	0
3	15,87%	10	3	4	0	3
4	53,97%	34	7	10	9	8
5	28,57%	18	6	2	6	4
		63	17	16	15	15



More than 83% of the participants are satisfied with Module 12.

### Q19) I am satisfied with the content of the Module 13 - Site Audits

	Total		Turkey	Italy	Spain	Austria
1	1,59%	1	1	0	0	0
2	0,00%	0	0	0	0	0
3	4,76%	3	0	1	0	2
4	55,56%	35	10	10	7	8
5	38,10%	24	6	5	8	5
		63	17	16	15	15



More than 93% of the participants are satisfied with Module 13.

**Q20) Please state if the training materials have not met your needs. What could be changed or improved in terms of the content?**

In this section the participants state also if the training materials have met their needs and if not, they express what could be changed or improved in terms of content. These are the main comments:

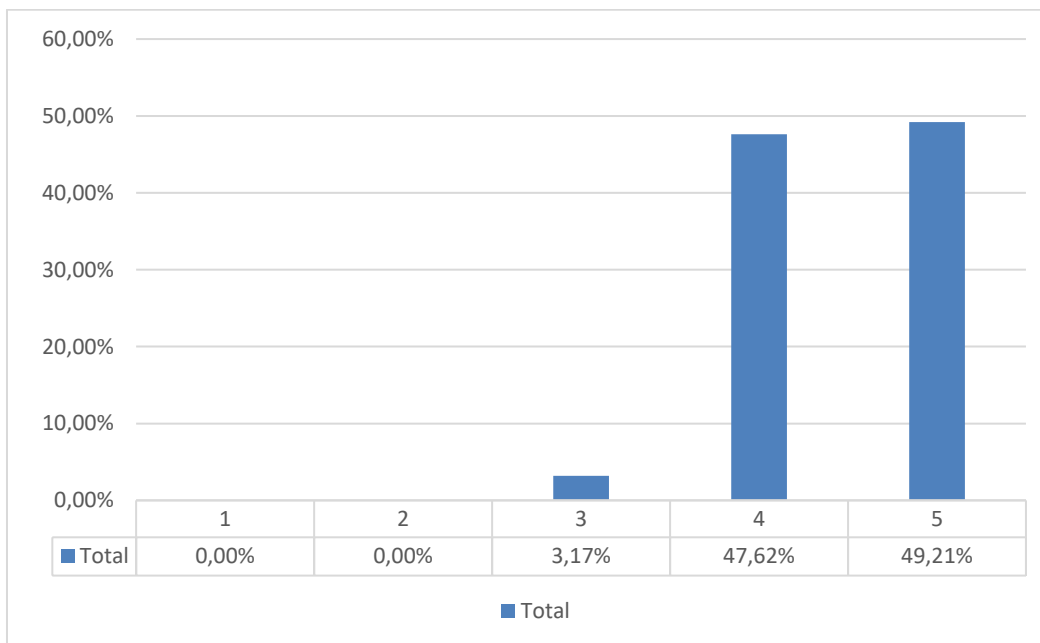
- The contents are clearly exposed.
- The modules' structure is a positive element. Currently there are no elements to change
- Some presentations are very long.
- More site applications case studies, information and practices can be included, including tricks for a DGSA who will start a new job
- Instead of the information in ADR, information that is not there but that DGSAs have to use in practice should also be included.
- More emphasis should be placed on practical applications. More images and videos should be used.
- All modules should be prepared and the language should be more fluent.
- More quizzes in some of the modules would be helpful



**QUALITY OF OER E-LEARNING PLATFORM**

**Q21) The interface of OER e-learning platform is user-friendly**

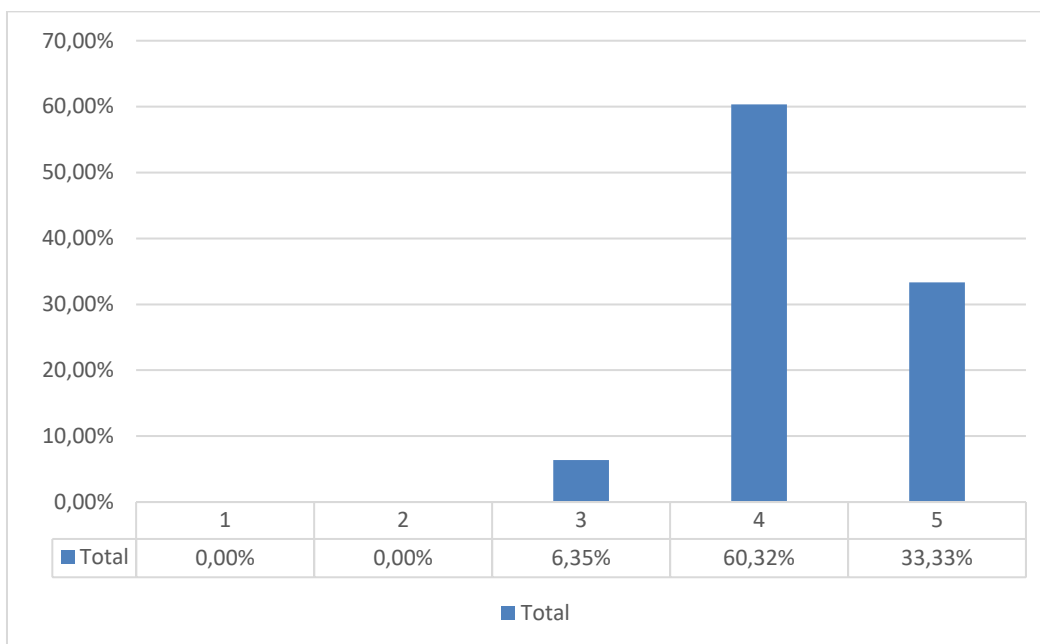
	Total		Turkey	Italy	Spain	Austria
1	0,00%	0	0	0	0	0
2	0,00%	0	0	0	0	0
3	3,17%	2	0	1	1	0
4	47,62%	30	9	7	7	7
5	49,21%	31	8	8	7	8
		63	17	16	15	15



Almost 97% of the participants indicate that the OER platform is user friendly.

### Q22) The digital tools in the platform are innovative

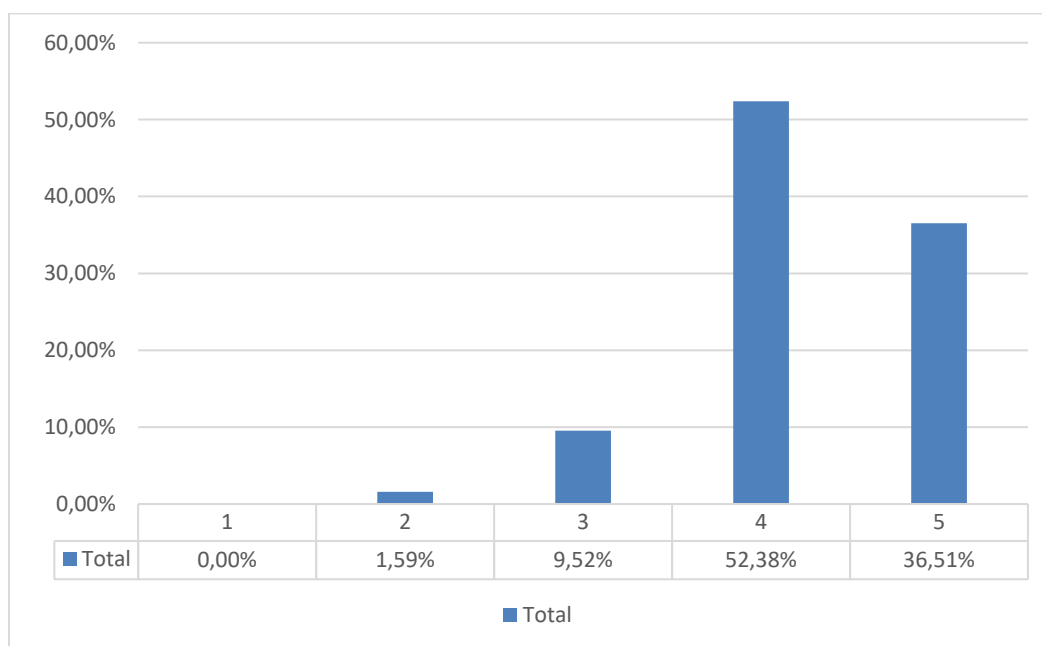
	Total		Turkey	Italy	Spain	Austria
1	0,00%	0	0	0	0	0
2	0,00%	0	0	0	0	0
3	6,35%	4	1	1	1	1
4	60,32%	38	8	11	10	9
5	33,33%	21	8	4	4	5
		63	17	16	15	15



More than 93% of participants rate the platform's digital tools as innovative

**Q23) The quantity of digital learning material is adequate**

	Total		Turkey	Italy	Spain	Austria
1	0,00%	0	0	0	0	0
2	1,59%	1	1	0	0	0
3	9,52%	6	4	0	1	1
4	52,38%	33	5	10	9	9
5	36,51%	23	7	6	5	5
		63	17	16	15	15



Almost 89% of participants rate the quantity of the digital learning materials as adequate

**Q24) Please state if the OER platform has not met your needs. What could be changed or improved in the OER platform?**

The platform was rated very positive. The easy menu navigation and also the usage for mobile devices were seen very positively.

Selected Comments for improvement:

- A clearer language can be used instead of the heavy language in the ADR book.
- DGSA can measure its own knowledge and determine the subjects on which it will work, by placing a pre- and post-acquisition test on the e-learning platform.
- Images should be enlarged, sections should follow each other and contain more examples
- Some more detailed explanations on the use of materials.
- If possible, further material could be included on the online platform
- a linklist (international and national) to other information sources would be helpful
- a link from the Quizzes / tests to the respective contents in the modul would be helpful
- a forum for exchanging experiences with other experts would be a good idea.

## GENERAL EVALUATION

### Q25) As a general evaluation, please state your ideas about the strengths of the training materials

In summary the following feedback was received:

- An innovative, simple and understandable education that meets the needs.
- It's clear that it was prepared with a thoughtful plan. The images used support the narrative very well. It is the only source that gives information about the field.
- The use of digital systems in terms of easy accessibility and fast action is seen as positive.
- Since the information is given as pill-information, it does not bore the reader and learner. The program shown is easy to use and effective.
- An informative and useful program in general terms. He summarized the knowledge and skills that DGSA should basically have.
- A nice digital tool used to support learning.
- The platform is easy and convenient.
- Explanation and content are very good.
- Easy to manage.
- It has a correct classification as a concept.
- It is useful for a quick education and information.
- A system that DGSAs can easily access and benefit from in the site.
- The training programme allows to deepen knowledge on one's own as an independent user, respecting one's own time and space
- All materials are useful.
- The topics of the online modules and the competence map are very useful
- The online material allows you to carry out the training as an independent learner
- The modularity of the training and the competence map: in fact this structure allows you to update only on the competences you need.
- The interactive materials and quizzes found in the materials are very useful.
- Clarity and simplicity
- Since the year 2000, when the figure of the dangerous goods safety advisor was created, I have been interested in the qualification of hazardous goods transport advisors, being a full member of the Campania commission. For the first time I was able to see an interactive learning platform. I hope that its content can be extended to

all those involved in the transport of dangerous goods ( consultants, consignors, unloaders or control authorities) in order to standardise knowledge in the sector

- The digital learning platform represents a real innovation in the sector. The fact that the platform can be shared in several languages enables the standardisation of expertise on an international level, both for private actors and for control authority
- The easy to use structure
- the contents are very well prepared and the learning platform is easy to use and self-explanatory
- helpful to quickly obtain relevant information on the individual areas
- the interactive elements make it easy to work through the content
- there is no other digital source where the contents are summarised in such a compact way
- the digital availability of the content has the advantage that it can be accessed at any time even when you are on the road
- concept of the learning program and implementation are well done

### **Q26) As a general evaluation, please state your ideas about the weaknesses of the training materials**

In summary the following feedback was received:

- It should contain more technical information and examples for site applications and the preparation of documents to be used in the site.
- Subject contents (especially field applications) should be more detailed.
- Such training should definitely be supported by legislation and site practice.
- There are visual deficiencies. If the situation/events that DGSA may encounter in the field are shown with both pictures and videos, DGSA can improve itself more confidently in practice.
- It is poor in terms of content and a good setup in terms of layout.
- Mechanically sound was low.
- More questions and quizzes could be added.
- The translation is not fully prepared according to the ADR Turkish translation.
- In some questions, when the questions are answered incorrectly and want to be answered again, the options change, which is confusing and causes a waste of time. It would be better if the options remained constant. In some slides, after answering the questions, when you want to go back to the questions, you cannot see the question or you can only see the answer to the question, but you cannot see other options. You

30

cannot mark the correct option in a question, it is not clicked. You have to write the numbers in writing.

- There should be a local applications section and each country should prepare this module
- An online system to compare with other people would be useful.
- Some presentations are too long and not easy to concentrate
- Case studies from other countries would be useful.
- Some presentations are very long and sometimes full of text
- In some cases, more details would help the expert
- it is certainly sufficient for an initial approach to the subject but I do not believe that it can be a valid tool for the professional activity that must be carried out mainly on normative texts and authoritative interpretations
- quizzes could be improved.
- it would take more examples to practical and/or solved cases
- more practical examples and case studies would be helpful
- good basic information but little added value for DGSAs with several years of experience
- some quizzes are very simple and hardly require any relevant expertise
- for every module, subject-specific videos should be available
- in some moduls there are several slides in sequence with text only – some pictures / videos would make it easier to go through
- case studies for specific areas could be added

### Q27) Would you want to give any other comments?

Comments were made on this question that the study was generally found positive, that such a step was taken is pleasing, that better works can be achieved through further support of this study, and those who contributed were thanked.

Further Selected Comments:

- Overall well done. However still needs to refer deeper to ADR guideline
- More quizzes to focus on learning outcomes with clearer definitions
- I strongly recommend extending the dissemination of the product to the various control authorities. The offices of the Driver and Vehicle Licensing Authority are very often unaware that they are responsible for the control, provided for by the ADR agreement, of the application of the regulations concerning advisers for the transport

of dangerous goods, just as the Prefectures are often unaware that the sanctions aspect is their responsibility.

- Every DGSA should know this website
- Very helpful to get basic information but special practical questions cannot be solved
- The content could be specified in a further expansion stage and supplemented with more practical examples.
- E-materials for other modules in the competency map should also be prepared.
- Materials can be differentiated according to different needs of countries. For example, in Turkey; DGSAs are in a good position in terms of knowledge due to the education they have received, but they need to develop their competence in field applications.

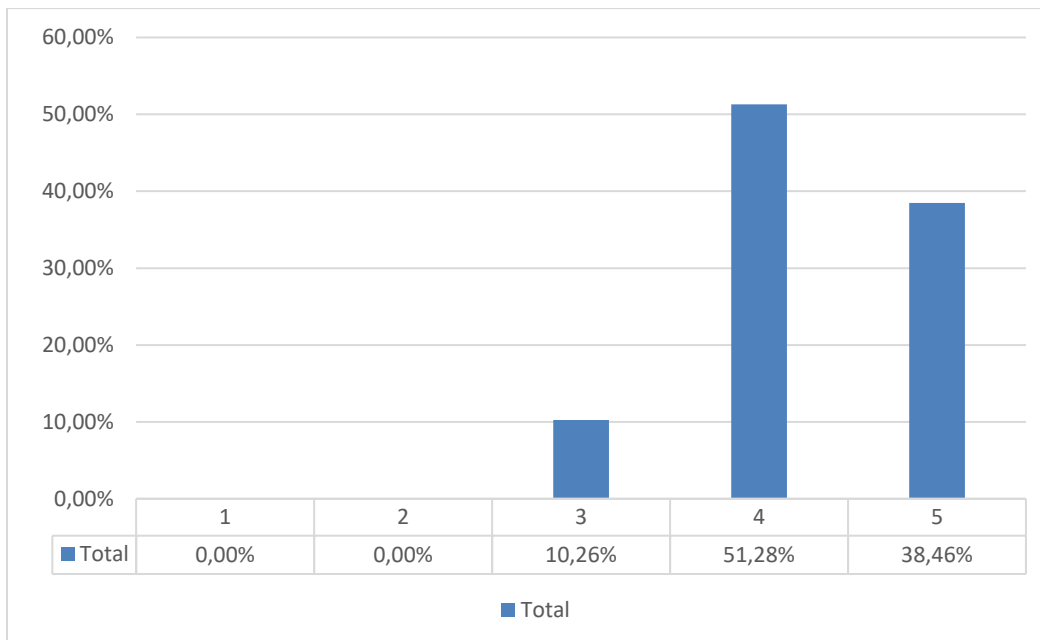


## 2. Evaluation of Pilot Training for DGSA Trainer

### OVERALL QUALITY

Q1) The overall quality of the training programme is very good

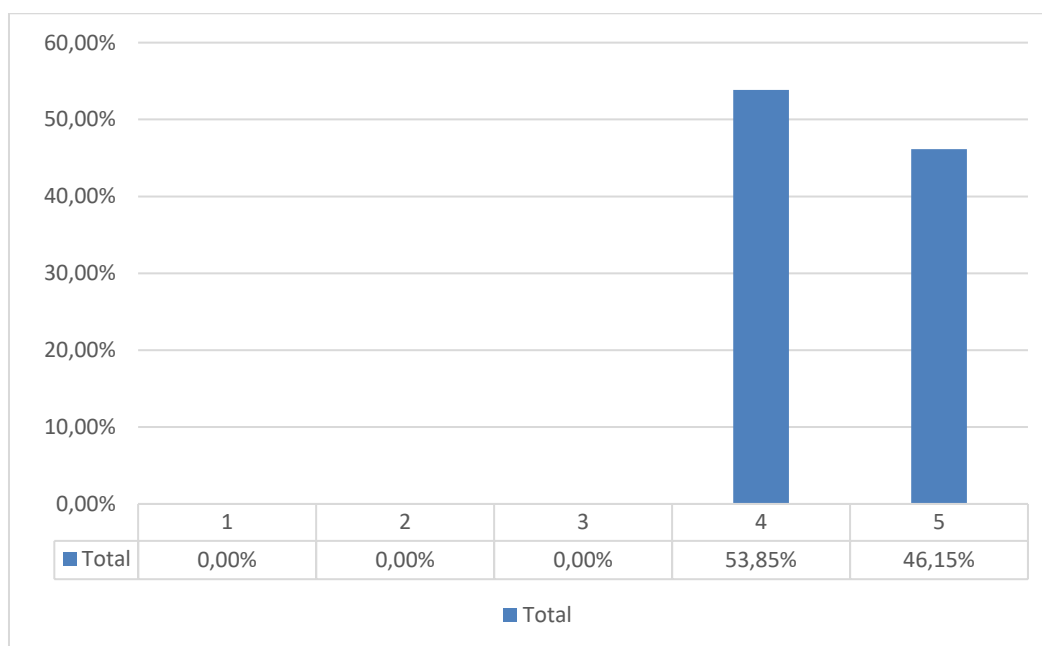
	Total		Turkey	Italy	Spain	Austria
1	0,00%	0	0	0	0	0
2	0,00%	0	0	0	0	0
3	10,26%	4	3	0	0	1
4	51,28%	20	2	7	6	5
5	38,46%	15	4	3	4	4
		39	9	10	10	10



More than 89% of the participants rate the training programme to be very good. The relatively lowest rating was given by the Turkish participants

**Q2) The training material produced is clear and easy to understand**

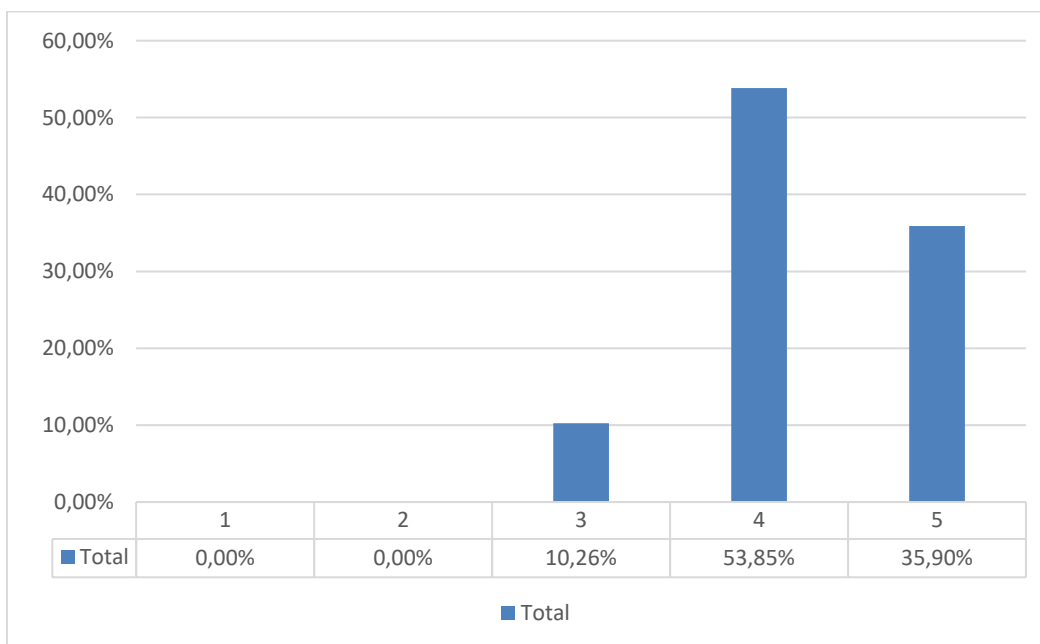
	Total		Turkey	Italy	Spain	Austria
1	0,00%	0	0	0	0	0
2	0,00%	0	0	0	0	0
3	0,00%	0	0	0	0	0
4	53,85%	21	4	7	6	4
5	46,15%	18	5	3	4	6
		39	9	10	10	10



All participants find the produced training material clear and easy to understand.

### Q3) The training programme was valuable for me to gain new knowledge and skills

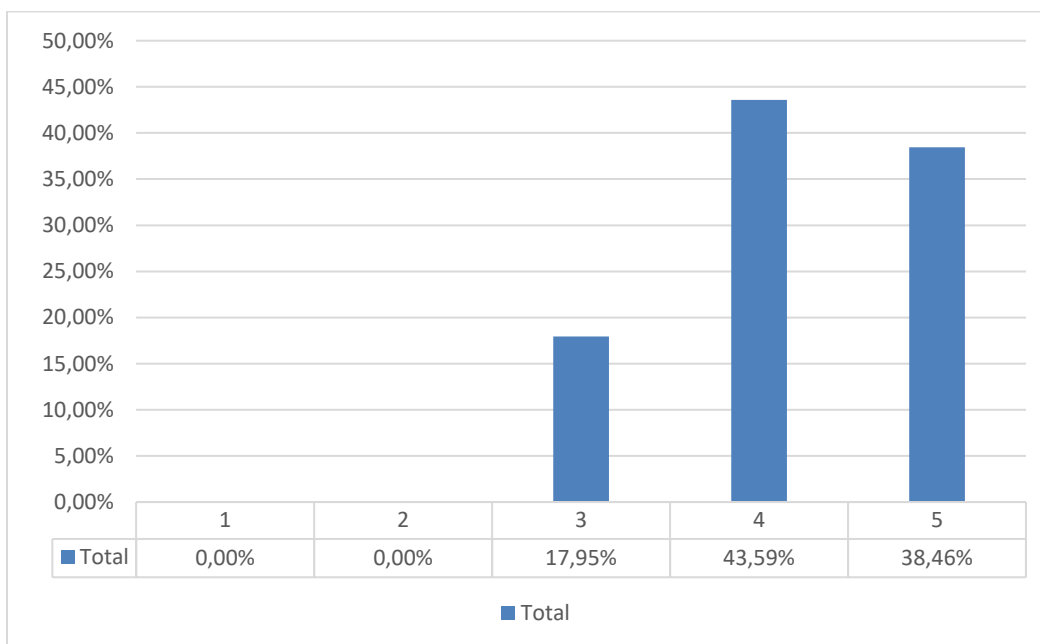
	Total		Turkey	Italy	Spain	Austria
1	0,00%	0	0	0	0	0
2	0,00%	0	0	0	0	0
3	10,26%	4	1	1	1	1
4	53,85%	21	5	6	5	5
5	35,90%	14	3	3	4	4
		39	9	10	10	10



Almost 90% of the participants find the that the training programm was valuable to gain new knowledge and skills.

#### Q4) I will utilize the knowledge and skills gained during the training in my life

	Total		Turkey	Italy	Spain	Austria
1	0,00%	0	0	0	0	0
2	0,00%	0	0	0	0	0
3	17,95%	7	1	3	2	1
4	43,59%	17	3	4	4	6
5	38,46%	15	5	3	4	3
		39	9	10	10	10

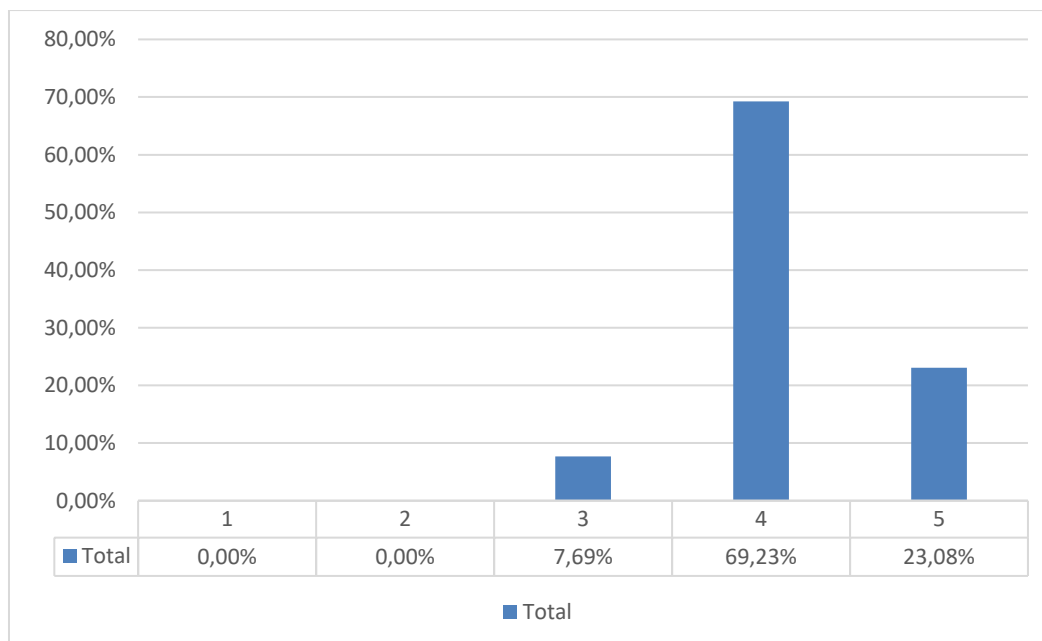


More than 82% of the participants will use the knowledge and skills gained during the training. The relatively lowest ratings were given by the Spanish and Italian participants

**QUALITY OF DGSA – FAC COMPETENCE MAP**

**Q5) I am satisfied with the competence map for all the modules**

	Total		Turkey	Italy	Spain	Austria
1	0,00%	0	0	0	0	0
2	0,00%	0	0	0	0	0
3	7,69%	3	2	0	0	1
4	69,23%	27	5	9	8	5
5	23,08%	9	2	1	2	4
		39	9	10	10	10



More than 92% of the participants are satisfied with the competence map.

**Q6) Please state if the competence map has not met your needs. What could be changed or improved?**

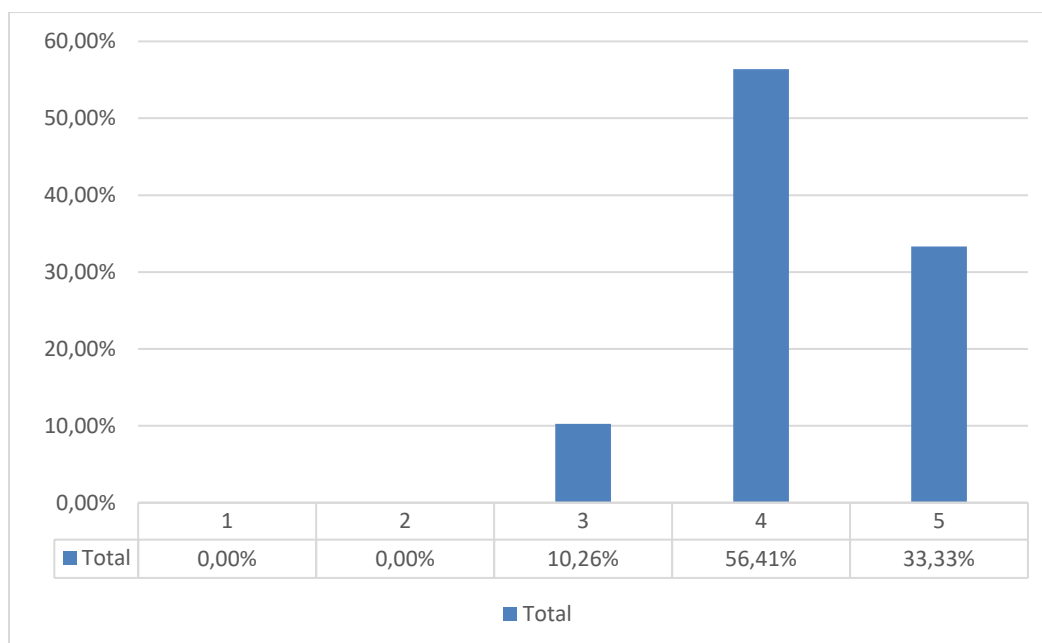
In this section the participants state also if Competence Map has met their needs and if not, they express what could be changed or improved in terms of the content. These are the main comments:

- Very useful for developing specific skills for the DGSA consultant
- I believe it is a complete competence map for the consultant and a reference for companies
- In some cases it is perhaps more correct to use driver instead of transporter in others it is appropriate to explain acronyms extensively in both English and Italian
- Very useful overview
- Some minor corrections in german translation are needed

**QUALITY OF DGSA – FAC TRAINING MODULES**

**Q7) I am satisfied with the content of the Module 1 - Scope and Applicability, Definition**

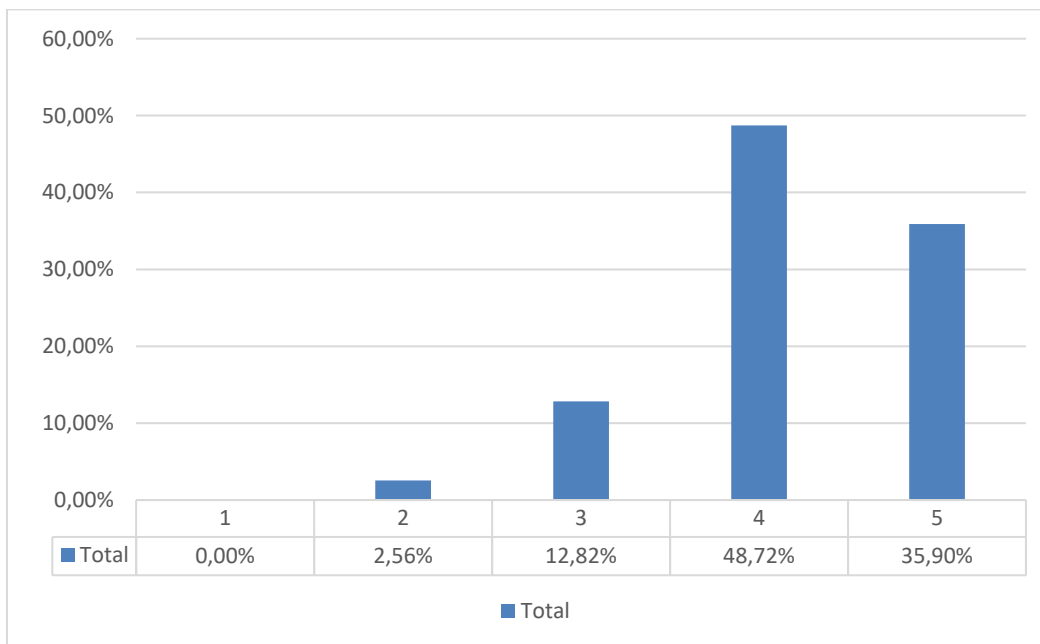
	Total		Turkey	Italy	Spain	Austria
1	0,00%	0	0	0	0	0
2	0,00%	0	0	0	0	0
3	10,26%	4	2	0	1	1
4	56,41%	22	3	8	6	5
5	33,33%	13	4	2	3	4
		39	9	10	10	10



More than 90% of the participants are satisfied with Modul 1.

**Q8) I am satisfied with the content of the Module 2- Classification of Dangerous Goods**

	Total		Turkey	Italy	Spain	Austria
1	0,00%	0	0	0	0	0
2	2,56%	1	1	0	0	0
3	12,82%	5	1	1	2	1
4	48,72%	19	2	6	5	6
5	35,90%	14	5	3	3	3
		39	9	10	10	10

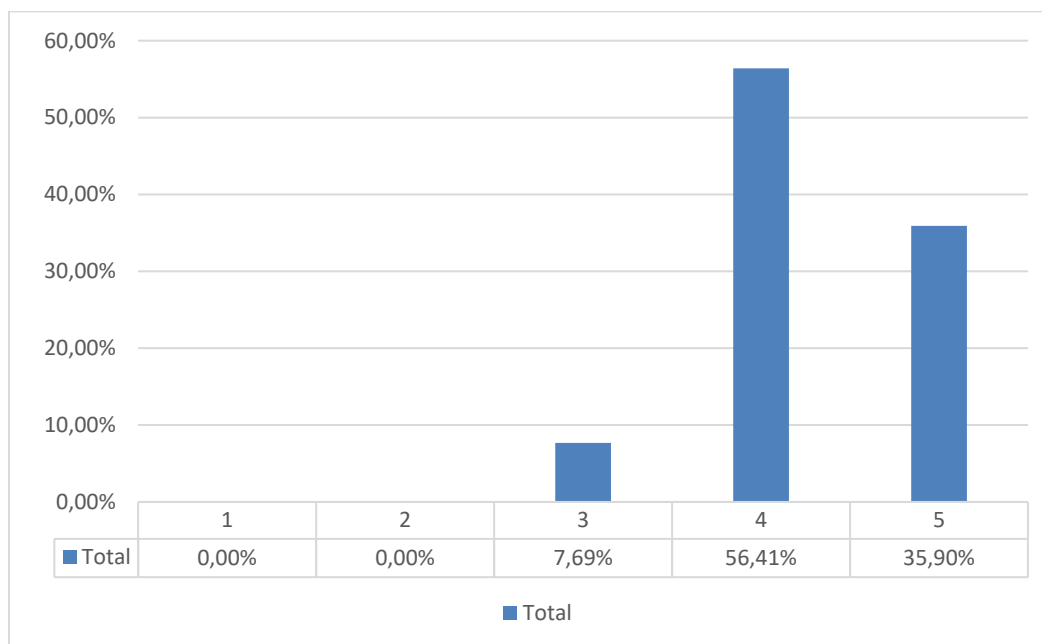


More than 84% of the participants are satisfied with Modul 2.



**Q9) I am satisfied with the content of the Module 3 - Use of Packaging including IBCs and Large Packagings**

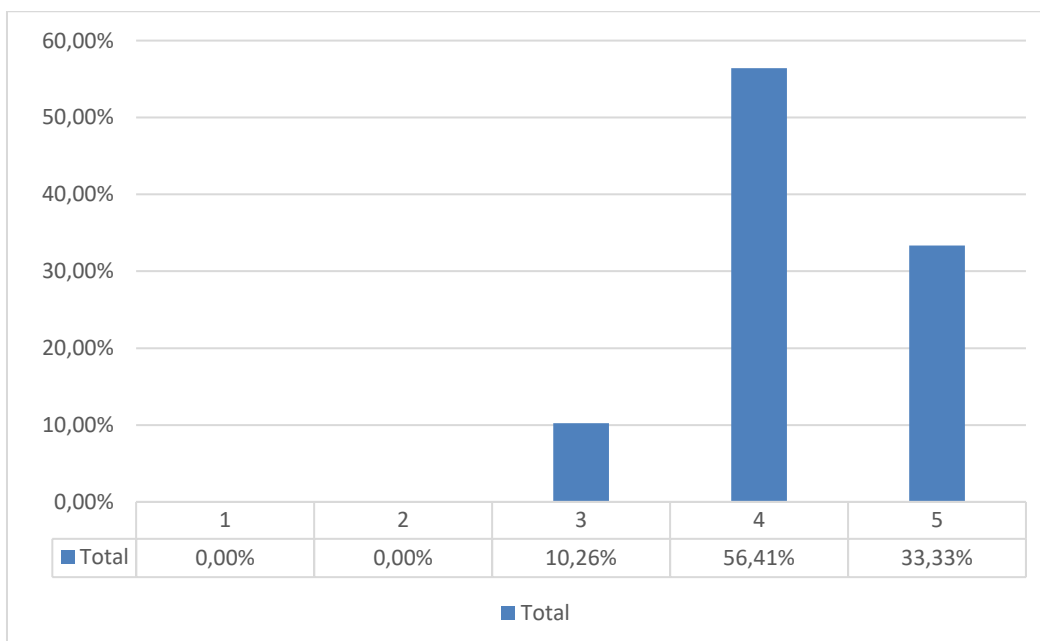
	Total		Turkey	Italy	Spain	Austria
1	0,00%	0	0	0	0	0
2	0,00%	0	0	0	0	0
3	7,69%	3	1	0	1	1
4	56,41%	22	5	8	5	4
5	35,90%	14	3	2	4	5
		39	9	10	10	10



More than 92% of the participants are satisfied with Modul 3.

**Q10) I am satisfied with the content of the Module 4 - Use of fixed tanks, demountable tanks, tank-containers, and tank swap bodies with shells made of metal, and battery-vehicles, and MEGCs**

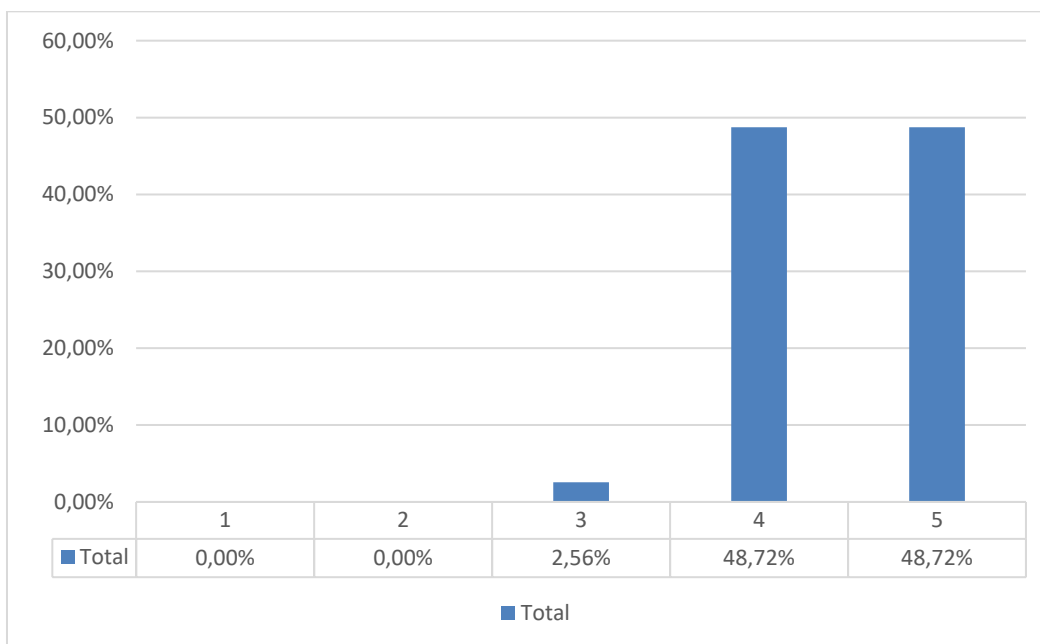
	Total	Turkey	Italy	Spain	Austria
1	0,00%	0	0	0	0
2	0,00%	0	0	0	0
3	10,26%	4	1	1	2
4	56,41%	22	6	4	4
5	33,33%	13	2	5	4
		39	10	10	10



Almost 90% of the participants are satisfied with Modul 4.

**Q11) I am satisfied with the content of the Module 5 - Use, Labelling, and Marking of Packagings**

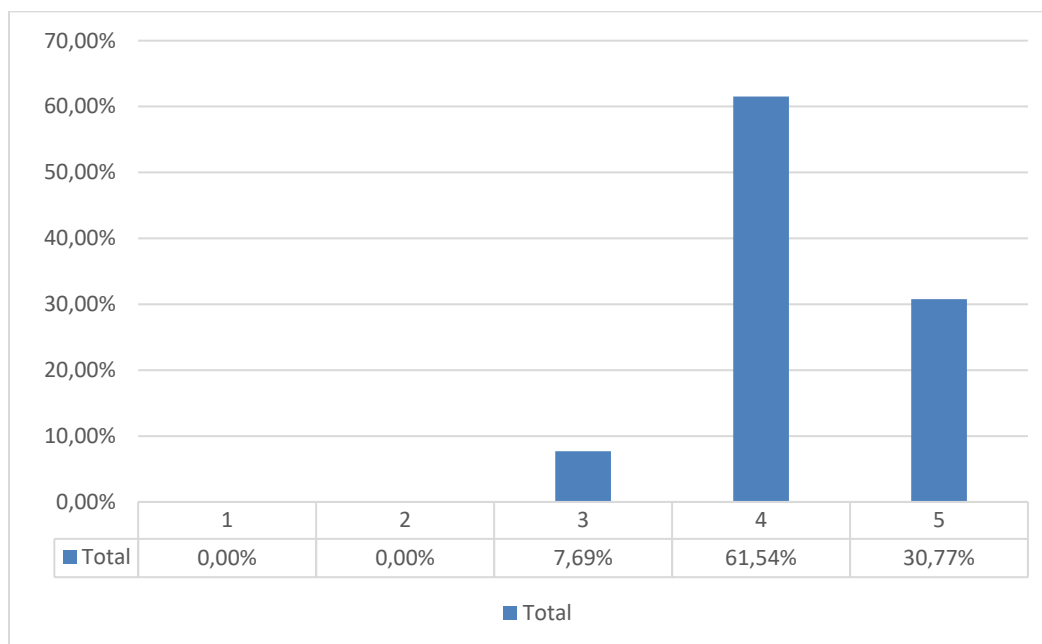
	Total		Turkey	Italy	Spain	Austria
1	0,00%	0	0	0	0	0
2	0,00%	0	0	0	0	0
3	2,56%	1	1	0	0	0
4	48,72%	19	3	6	4	6
5	48,72%	19	5	4	6	4
		39	9	10	10	10



More than 97% of the participants are satisfied with Modul 5.

**Q12) I am satisfied with the content of the Module 6 - Placarding of Containers, MEGCs, MEMUs, Tank-Containers, and Portable Tanks and Vehicles**

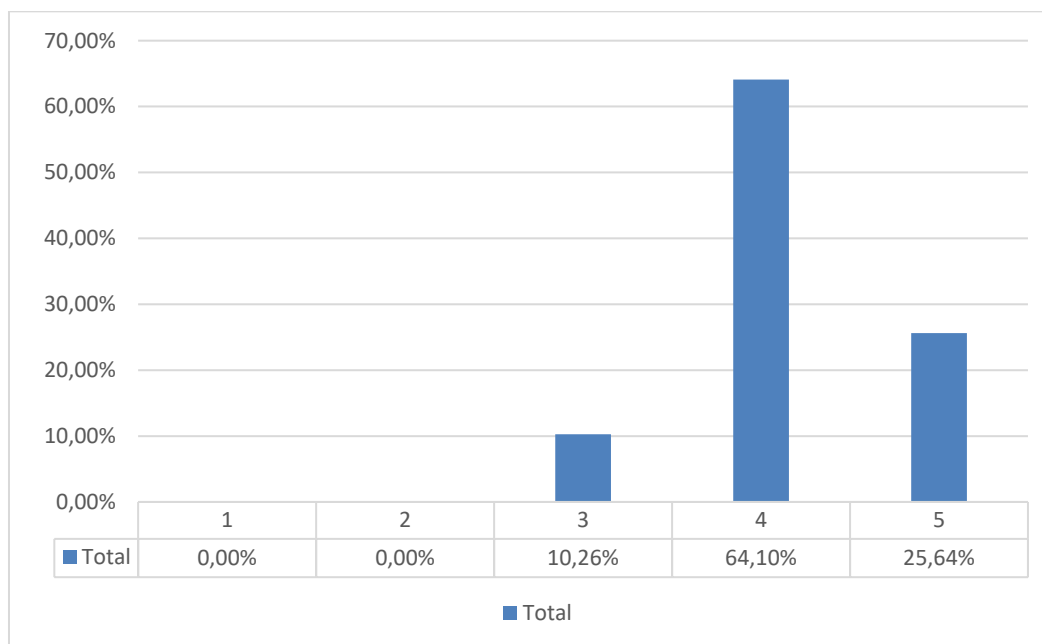
	Total		Turkey	Italy	Spain	Austria
1	0,00%	0	0	0	0	0
2	0,00%	0	0	0	0	0
3	7,69%	3	1	0	0	2
4	61,54%	24	6	7	6	5
5	30,77%	12	2	3	4	3
		39	9	10	10	10



More than 92% of the participants are satisfied with Modul 6.

**Q13) I am satisfied with the content of the Module 7 - Documentation and special provisions**

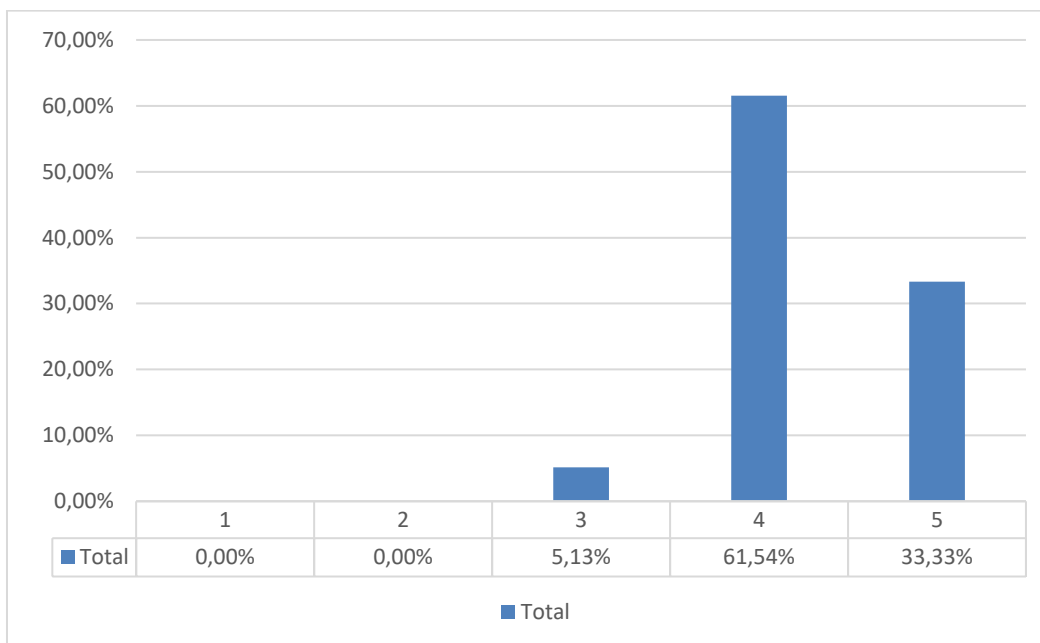
	Total		Turkey	Italy	Spain	Austria
1	0,00%	0	0	0	0	0
2	0,00%	0	0	0	0	0
3	10,26%	4	2	0	1	1
4	64,10%	25	4	9	6	6
5	25,64%	10	3	1	3	3
		39	9	10	10	10



Almost 90% of the participants are satisfied with Modul 7.

**Q14) I am satisfied with the content of the Module 8 - Provisions Concerning the Conditions of Carriage, Loading, Unloading and Handling**

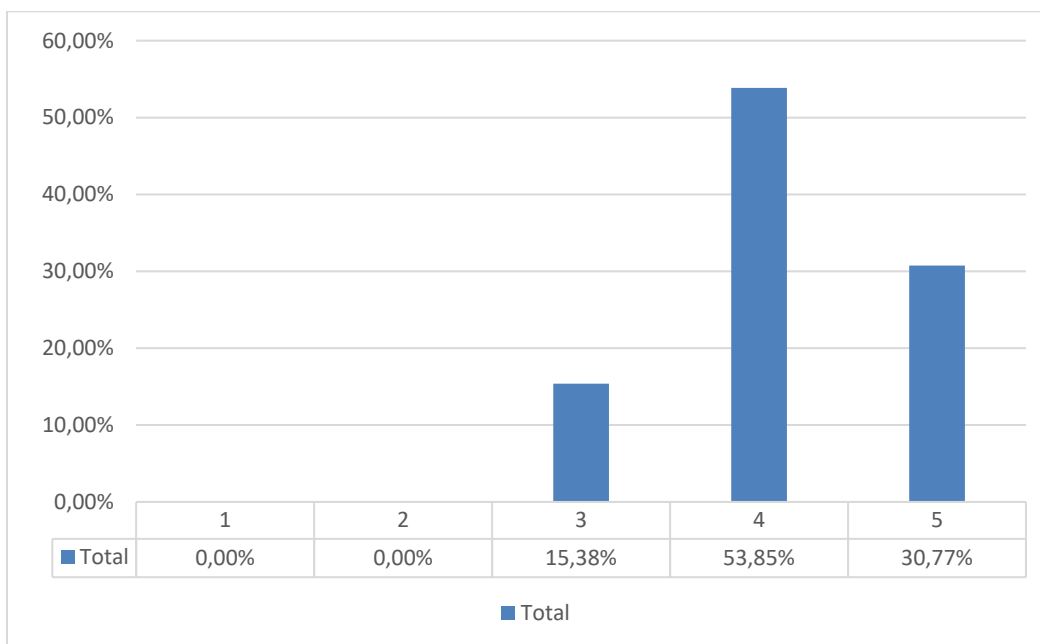
	Total		Turkey	Italy	Spain	Austria
1	0,00%	0	0	0	0	0
2	0,00%	0	0	0	0	0
3	5,13%	2	1	0	0	1
4	61,54%	24	4	8	7	5
5	33,33%	13	4	2	3	4
		39	9	10	10	10



Almost 95% of the participants are satisfied with Modul 8.

**Q15) I am satisfied with the content of the Module 9 - Requirements for Vehicle Crews, Equipment, Operation, and Documentation**

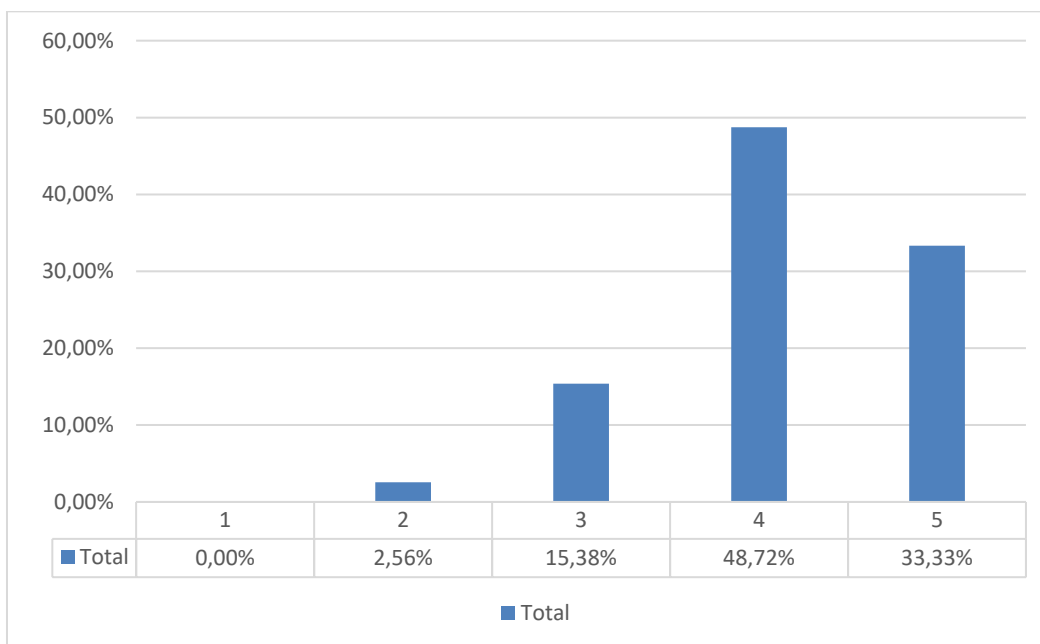
	Total		Turkey	Italy	Spain	Austria
1	0,00%	0	0	0	0	0
2	0,00%	0	0	0	0	0
3	15,38%	6	0	3	2	1
4	53,85%	21	6	5	4	6
5	30,77%	12	3	2	4	3
		39	9	10	10	10



Almost 85% of the participants are satisfied with Modul 9.

**Q16) I am satisfied with the content of the Module 10 - Duties and Responsibilities of DGSA's**

	Total		Turkey	Italy	Spain	Austria
1	0,00%	0	0	0	0	0
2	2,56%	1	1	0	0	0
3	15,38%	6	2	1	1	2
4	48,72%	19	2	6	6	5
5	33,33%	13	4	3	3	3
		39	9	10	10	10

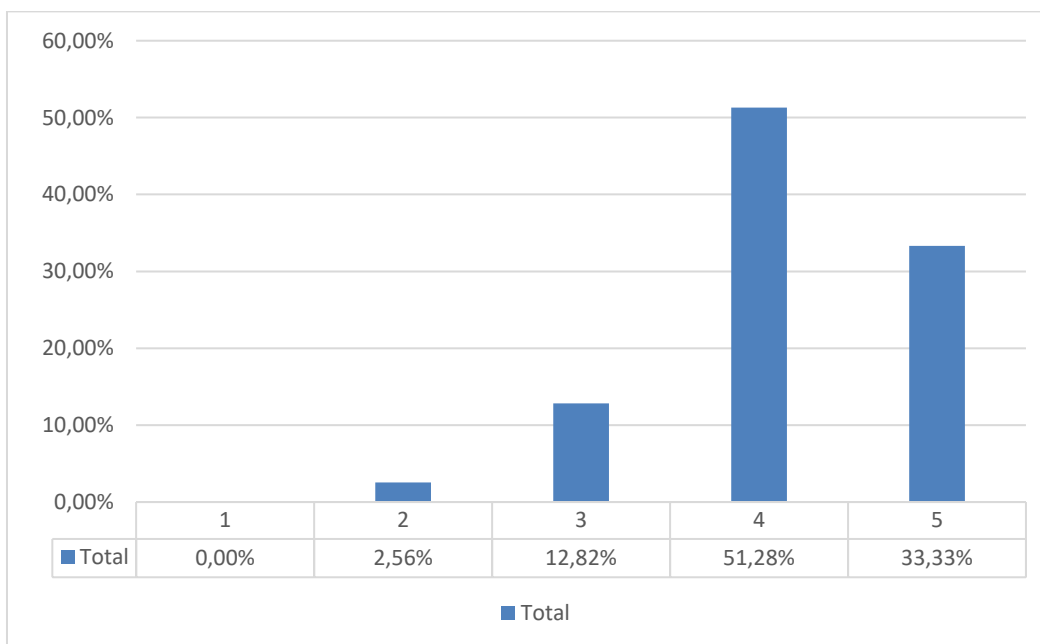


More than 82% of the participants are satisfied with Modul 10.



### Q17) I am satisfied with the content of the Module 11 - Step-by-Step Site Analysis

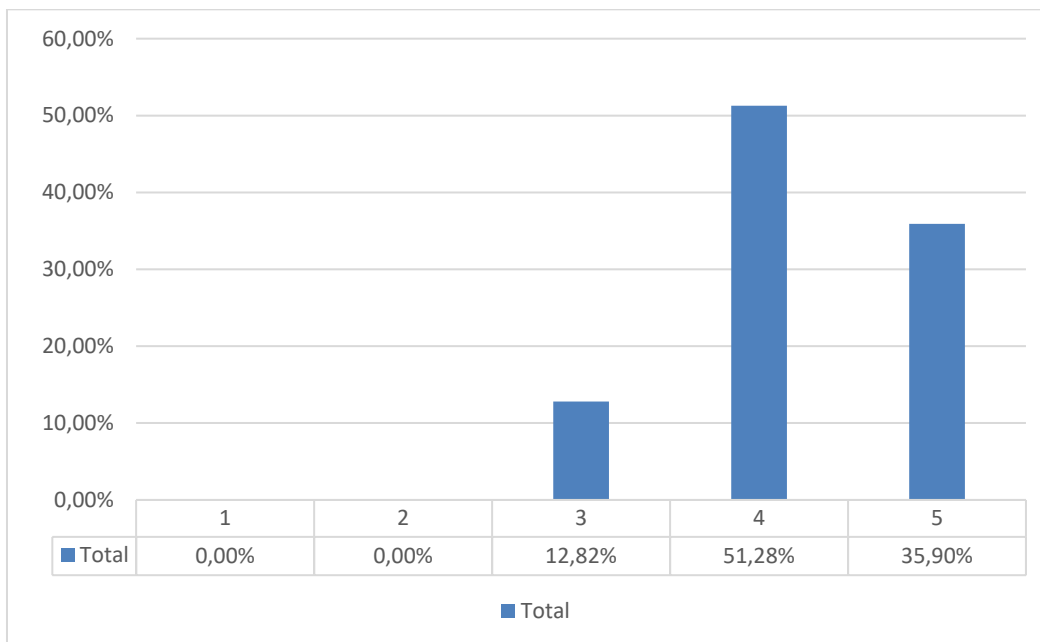
	Total		Turkey	Italy	Spain	Austria
1	0,00%	0	0	0	0	0
2	2,56%	1	1	0	0	0
3	12,82%	5	2	1	1	1
4	51,28%	20	4	6	5	5
5	33,33%	13	2	3	4	4
		39	9	10	10	10



More than 84 % of the participants are satisfied with Modul 11.

**Q18) I am satisfied with the content of the Module 12 - Required Documentation and Forms**

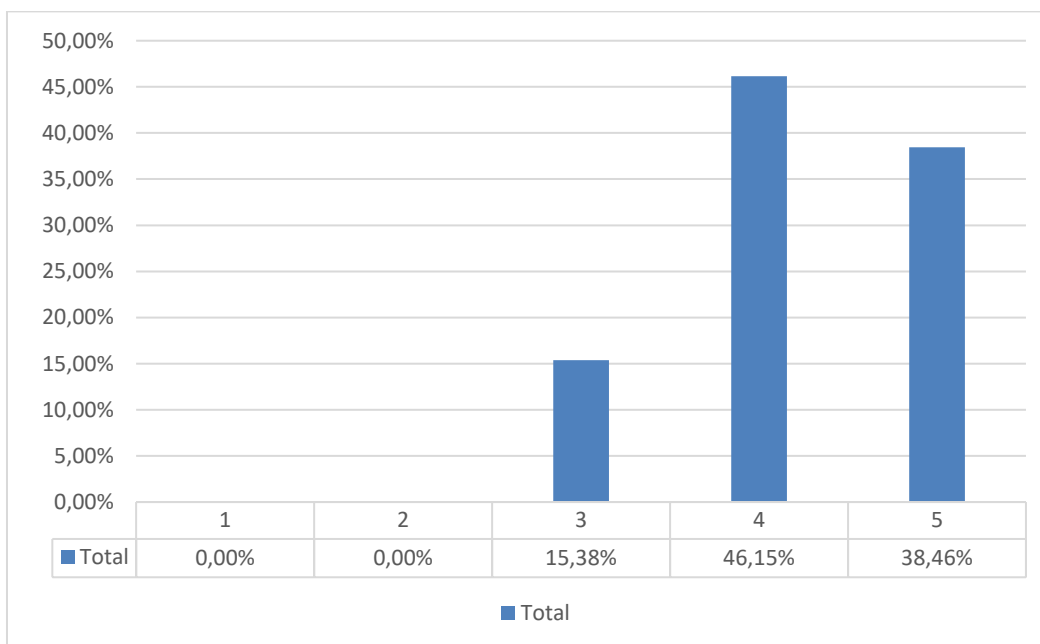
	Total		Turkey	Italy	Spain	Austria
1	0,00%	0	0	0	0	0
2	0,00%	0	0	0	0	0
3	12,82%	5	4	0	0	1
4	51,28%	20	3	6	5	6
5	35,90%	14	2	4	5	3
		39	9	10	10	10



More than 87% of the participants are satisfied with Modul 12.

### Q19) I am satisfied with the content of the Module 13 - Site Audits

	Total		Turkey	Italy	Spain	Austria
1	0,00%	0	0	0	0	0
2	0,00%	0	0	0	0	0
3	15,38%	6	4	0	0	2
4	46,15%	18	3	7	4	4
5	38,46%	15	2	3	6	4
		39	9	10	10	10



Almost 85% of the participants are satisfied with Modul 13.

**Q20) please state if the training materials have not met your needs. What could be changed or improved in terms of the content?**

In general, the moduls were rated very positively

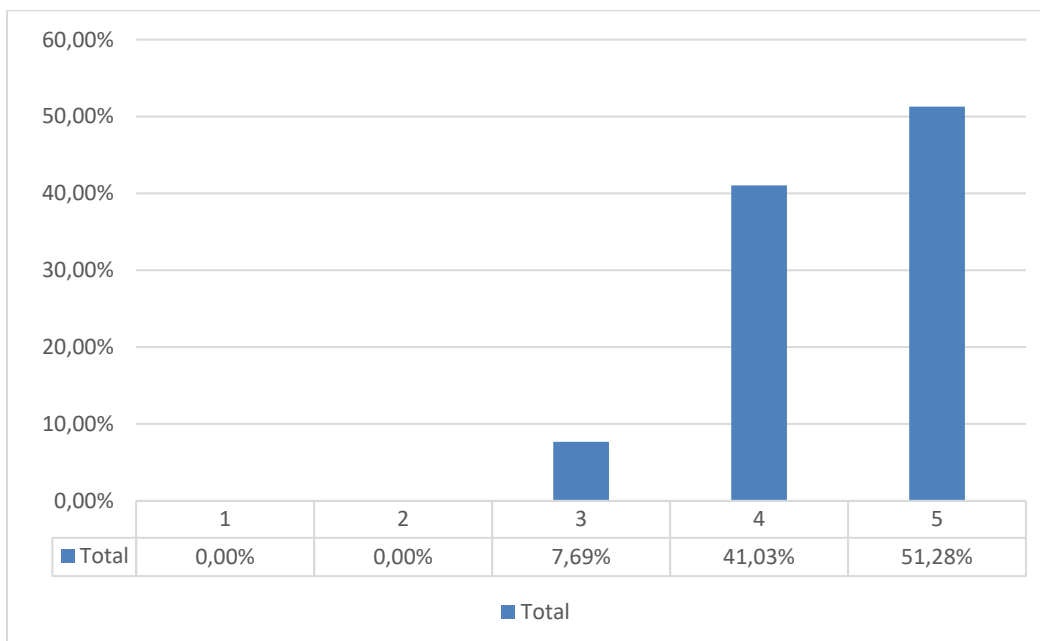
Selected Comments for improvement:

- Some slides and presentations contain too much information.
- If possible, insert more details.
- Some presentations have content-related errors and should be corrected.
- The content of some presentations should be improved.
- Questions can be developed further and turned into a test.
- ADR has ceased to be a European Agreement and has become a general agreement. Such expressions in the texts should be corrected.
- Generally accepted ADR concepts should be used in Turkish translations.
- Site- applications should be given more space.
- More tests /quizzes / could be integrated
- more in-depth knowledge could be helpful

**QUALITY OF OER E-LEARNING PLATFORM**

**Q21) The interface of OER e-learning platform is user-friendly**

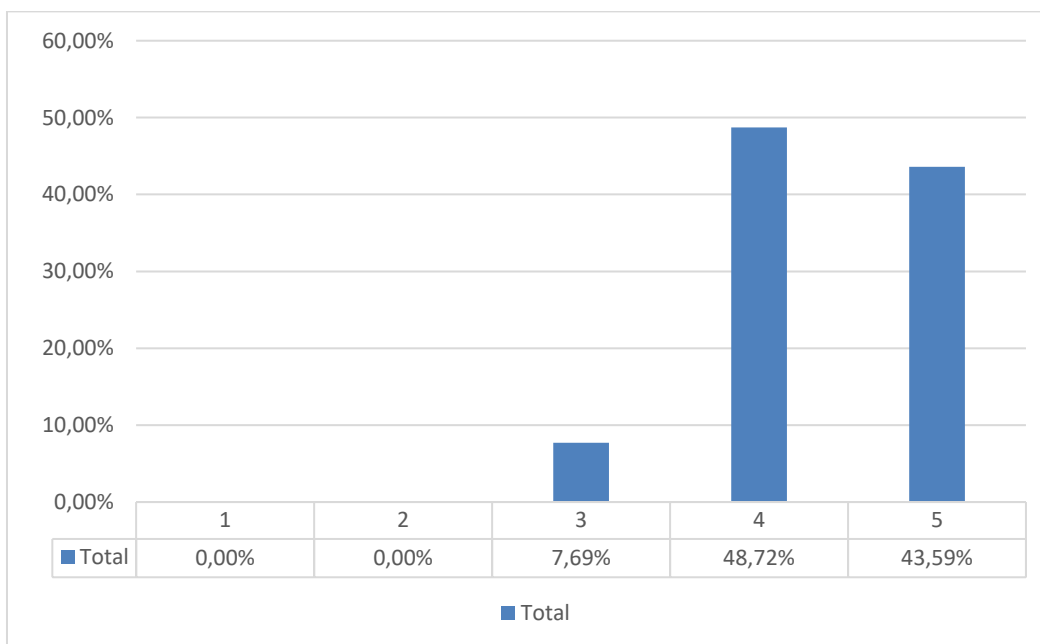
	Total	Turkey	Italy	Spain	Austria
1	0,00%	0	0	0	0
2	0,00%	0	0	0	0
3	7,69%	3	1	1	1
4	41,03%	16	1	5	6
5	51,28%	20	7	5	3
		39	9	10	10



More than 92% of the participants indicate that the OER platform is user friendly.

**Q22) The digital tools in the platform are innovative**

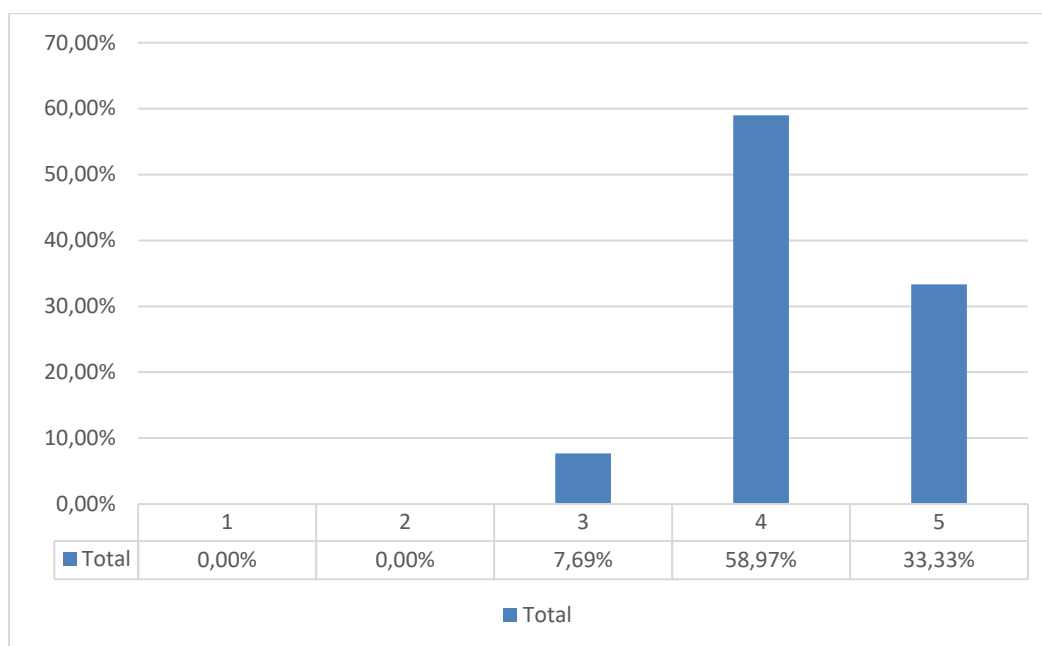
	Total		Turkey	Italy	Spain	Austria
1	0,00%	0	0	0	0	0
2	0,00%	0	0	0	0	0
3	7,69%	3	1	0	1	1
4	48,72%	19	1	6	5	7
5	43,59%	17	7	4	4	2
		39	9	10	10	10



More than 92% of participants rate the platform's digital tools as innovative

**Q23) The quantity of digital learning material is adequate**

	Total		Turkey	Italy	Spain	Austria
1	0,00%	0	0	0	0	0
2	0,00%	0	0	0	0	0
3	7,69%	3	3	0	0	0
4	58,97%	23	4	7	6	6
5	33,33%	13	2	3	4	4
		39	9	10	10	10



More than 92% of participants rate the quantity of the digital learning materials as adequate

**Q24) Please state if the OER platform has not met your needs. What could be changed or improved in the OER platform?**

In general the platform was rated very positively

Selected Comments for improvement:

- The interface of OER e-learning platform is user-friendly.
- The digital tools in the platform are innovative.
- The quantity of digital learning material is adequate.
- In the site applications, it will be beneficial to design an online integrated software that will enable DGSA's to connect online and access instruction / procedure outputs.
- Video narratives, teaching can be increased.
- In the portal, the case sensitivity of the answers can be specified on the screen. Questions and slides can be supported with some more visuals.
- Visuality can be increased more.
- the interactive elements could be extended
- a chat / forum could be integrated



## GENERAL EVALUATION

### Q25) As a general evaluation, please state your ideas about the strengths of the training materials

In summary the following feedback was received:

- It is understandable, its content is wide, it can be easily used in electronic environment.
- I found it quite successful. Some details are very well visualized (security plan, report formats, videos)
- It was nice to have a question and answer section and video explanations.
- It is a successful feature that it can be accessed at any time in the internet environment and offers the opportunity to evaluate yourself.
- A platform that is innovative and can make learning more enjoyable.
- Required topics under ADR are outlined and learning is facilitated.
- It's nice that the program is easily accessible, clear, understandable and user-friendly.
- Topics are well summarized
- The modules' structure is very useful as they can be used separately.
- The online material is very useful that can be used both at a distance and in the classroom.
- The online material allows the user to review unclear content and thus allow for appropriate insights.
- Easy to use. Innovative approach
- Excellent for approaching ADR issues
- interesting and easy to understand
- Clarity of content
- Breakdown of topics.
- Easy-to-understand slides
- clarity and simplicity
- the platform is innovative and enables individual learning and the integrated quizzes can be used to test the knowledge
- very useful tool to acquire appropriate expertise in the area
- The platform can be used also very well in a blended approach as a supplement to face-to-face trainings
- concept of the learning program and implementation are well done
- the platform is very easy to use and learning becomes more entertaining for the participants

**Q26) As a general evaluation, please state your ideas about the weaknesses of the training materials**

In summary the following feedback was received:

- On the website, it would be desirable to have more information for the user on how to use the materials.
- Some presentations are too long
- This tool does not replace the ADR GUIDE. It is useful as a learning support
- Too schematic to give practical support to trainers who must, in my opinion, always have the legislation as a reference and not a briefing book
- It would be useful to have more multimedia support for more effective learning
- There are cases in which it is good to raise doubts in the user, it is good to invite the user to read the regulation
- The content focuses on theoretical knowledge - more practical examples would be an additional added value
- As this would be the only learning material for a newcomer, the content would be not sufficient
- To prepare for the exam, the tests should be more demanding
- In a group, the participants also learn from the experiences of the others - this is not the case in the individual setting
- Its weakness is that it does not include all ADR and native applications. If the purpose is to remind them of ADR (DGSA's who already take it as a legal requirement with Refresher Trainings), they can only use it to test themselves.
- Its weakness is that it does not include all ADR and native applications. If the purpose is to remind them of ADR (DGSA's who already take it as a legal requirement with Refresher Trainings), they can only use it to test themselves.

## Q27) Would you want to give any other comments?

Selected Comments:

- Useful for basic training.
- Positive experience
- There is a lack of practical rather than knowledge, documents to be applied in the field.
- Chapter 10 can be enriched. More content related to ADR can be presented by defining the difficulties that Dangerous Goods Safety Advisors may encounter in the site.
- Issues related to duties, authorities and responsibilities could have been explained in more detail. How are responsible parties identified when an incident occurs? Who is it responsible? Is it the sender? Transporter? With what system are DGSA assignments followed? etc. should be answered.
- The lack of examples of site practice can be considered as a weakness especially for DGSAs who have just started their profession.
- The content can be used very well as a supplement to existing training offers
- The learning content developed could be used as a standard basic version - and further developed and enriched with videos, case studies, ... by a Europe-wide community of experts.
- Instead of including the questions in the training material, a separate test can be applied.
- At the end of the project, missing areas in Turkey can be identified and more weight can be given to these areas.

### 3. Conclusions and General Evaluation

As an overall conclusion it can be said that the outputs developed in the project received very good ratings from the participants.

- The evaluations of the DGSA's and DGSA's trainers participating in the pilot training regarding the project outputs are mainly positive in terms of sufficiency of the training materials, the accuracy of the competence map and efficiency of the e-learning platform. The respondents state that the e-materials meet their training needs so they achieve a high level of satisfaction with the project training content
- DGSA competency map prepared within the framework of the project is positive in terms of showing the common knowledge, skills and competencies that DGSA's should have and connecting the profession to a standard
- The training programme allows to deepen knowledge on one's own as an independent user, respecting one's own time and space; as well the online material and e-learning platform allow the user to review unclear content and thus allow for appropriate insights.
- Digital training materials that can be accessed independently by the user without limitation of time and place: this aspect was considered a relevant strength of the project because it can support the continuous training within their professions.
- The User-friendliness and ease of access of the platform as well as the clear and understandable language of digital materials were evaluated positively by the majority of the respondents, both trainers and DGSA's.
- The digital learning platform represents a real innovation in the sector. The fact that the platform can be shared in several languages enables the standardisation of expertise on an international level, both for private actors and for control authorities.
- the learning content can be used very well to acquire or refresh basic knowledge
- Although the materials are not sufficient in terms of preparing for the exam, it has been helpful in refreshing knowledge and easily accessing some information while working in the field.
- the learning content can be used in different settings - individual elearning / blended learning / online curriculum in face to face groups
- The visuals and videos used in the presentations are useful and attract the attention of the beneficiary and facilitate learning,

The content and the platform could be further developed in a follow up project in the following areas:

- Preparing the contents of other modules in the competency map,
- Enriching and developing the contents of existing modules
- Giving more space to images and videos
- Giving more weight to modules related to site applications, clearly showing how DGSA's will manage the site by using sample forms, through case studies
- Having a separate section on local applications
- integration of a chat / forum to give a possibility for exchange of experiences, questions,...
- the content could be made available for other countries / languages