



IMPROVE TECHNIFICATION AND LCA QUALIFICATION OF  
WORKERS IN CERAMIC SECTOR WITH THE SUPPORT OF BIM  
APPLICATIONS

2017-1-PT01-KA202-035955

Co-funded by the  
Erasmus+ Programme  
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## TASK 03/A2.

# Pilot Clay Placing Course implementation: environment test and technical improvements



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Consortium members: Associação Portuguesa da Indústria de Cerâmica (APICER), Centro Tecnológico da Cerâmica e do Vidro (CTCV), Asociación Empresarial de Investigación Centro Tecnológico del Mármol, Piedra y Materiales (CTM), Asociación Española de Fabricantes (Hispalyt), Institute of Entrepreneurship Development (iED).



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## 1. DESCRIPTION OF THE TASK

This report is included in the IO3 ORC (Online Resource Centre of BIMclay) which is based on the implementation in technical courses and trainings on specialisation focused on the BIMclay project. Partners of the Project have implemented pilot courses and used current courses based on the products of the project, which was also served as evaluating products for possible improvement before the end of the project.

The feedback obtained from experts during these courses and events was very useful to the improvement of the products of the project, mainly the Production of the ORC, BIMclay Multimedia Cards and the Interactive BIM Tool, both quality assessment of technical content and pedagogical approach and IT quality assessment of ICT Based.

The beta versions of those products were shown to experts and teachers, to be checked and used in during or after the courses. It was necessary because beta versions to correct them, as well as sometimes the trainings are carrying out in facilities where there is not online connection.

Finally, the consortium has also scheduled courses, trainings and other events (workshops, meetings, seminars, etc.) beyond the end of the project in order to guarantee the sustainability of the project.

## 2. DURING THE PROJECT. EXPERTS, ENTITIES, COURSES AND OTHER EVENTS WHERE WAS CONSULTED ON BIMclay MULTIMEDIA CARDS, INTERACTIVE BIM TOOL AND ORC

### 2.1. COURSES AND TRAININGS

**Table 2.1.1. Courses or trainings where BIMclay project was shown**

**CTM**

Name of the course/training	Venue	Date/Period	Number of students
Riesgos laborales relacionados con equipos de transporte y manipulación mecánica de carretillas elevadoras	Balaguer, Lérida (Spain)	24/04/2019	12
Curso de emergencias ante primeros auxilios en la empresa	Balaguer, Lérida (Spain)	25/04/2019	14
Curso de formación para la prevención y protección de los trabajadores ante caída de personas a distintos niveles	Almansa, Albacete (Spain)	29/04/2019	10
Prevención de daños relacionados con posturas forzadas, movimientos repetitivos y vibraciones	Los Yébenes, Toledo (Spain)	30/04/2019	15
Curso de formación para una conducción y uso seguro de equipos de transporte	Herrera, Sevilla (Spain)	08/05/2019	17
Curso de emergencias ante simulacros de evacuación a causa de un incendio	Herrera, Sevilla (Spain)	09/05/2019	13
Curso de emergencias ante primeros auxilios en la empresa	Herrera, Sevilla (Spain)	10/05/2019	12
Curso de formación para la prevención y protección de los trabajadores ante caída de personas a distintos niveles	Villaluenga de la Sagra, Toledo (Spain)	23/05/2019	10
Riesgos laborales relacionados con equipos de transporte y manipulación mecánica de carretillas elevadoras	Alcañiz, Teruel (Spain)	25/05/2019	14
Protección y control del riesgo por exposición a productos químicos	Llíria, Valencia (Spain)	27/05/2019	18
Protección y control del riesgo por exposición a productos químicos	Llíria, Valencia (Spain)	30/05/2019	20
Riesgos laborales relacionados con equipos de transporte y manipulación mecánica de puente grúa	Fortuna, Murcia (Spain)	31/05/2019	10
Protección y control del riesgo por exposición a productos químicos	Llíria, Valencia (Spain)	03/06/2019	14
Protección y control del riesgo por exposición a productos químicos	Llíria, Valencia (Spain)	04/06/2019	18
Protección y control del riesgo por exposición a productos químicos	Llíria, Valencia (Spain)	05/06/2019	16
Riesgos laborales relacionados con equipos de transporte y manipulación mecánica de carretillas elevadoras	Alcañiz, Teruel (Spain)	08/06/2019	14



Protección y control del riesgo por exposición a productos químicos	Llíria, Valencia (Spain)	10/06/2019	25
Curso de emergencias ante simulacros de evacuación a causa de un incendio	Pereiro de Aguiar, Ourense (Spain)	11/06/2019	12
Protección y control del riesgo por exposición a productos químicos	Llíria, Valencia (Spain)	13/06/2019	20
Riesgos laborales relacionados con equipos de transporte y manipulación mecánica de carretillas elevadoras	Callosa d'en Sarrià, Alicante (Spain)	15/06/2019	11
Protección y control del riesgo por exposición a productos químicos	Llíria, Valencia (Spain)	17/06/2019	22
Protección y control del riesgo por exposición a productos químicos	Llíria, Valencia (Spain)	19/06/2019	19
Prevención de riesgos laborales en tareas de mantenimiento mecánico y trabajos eléctricos	Agost, Alicante (Spain)	20/06/2019	17
Riesgos laborales relacionados con equipos de transporte y manipulación mecánica de carretillas elevadoras	Alcañiz, Teruel (Spain)	22/06/2019	14
Riesgos laborales relacionados con equipos de transporte y manipulación mecánica de carretillas elevadoras	Almansa, Albacete (Spain)	24/06/2019	16
Riesgos laborales relacionados con equipos de transporte y manipulación mecánica de carretillas elevadoras	Villaluenga de la Sagra, Toledo (Spain)	25/06/2019	17
Curso "Presentación del proyecto BIMclay"	Castellón (Spain)	25/06/2019	12
Riesgos laborales relacionados con equipos de transporte y manipulación mecánica de carretillas elevadoras	Villaluenga de la Sagra, Toledo (Spain)	26/06/2019	12
Prevención de daños relacionados con posturas forzadas, movimientos repetitivos y vibraciones	Agost, Alicante (Spain)	27/06/2019	11
Curso de formación ante la prevención de atrapamientos en establecimientos de beneficio	Chiloeches, Guadalajara (Spain)	28/06/2019	13
Riesgos laborales relacionados con equipos de transporte y manipulación mecánica de carretillas elevadoras	Alcañiz, Teruel (Spain)	29/06/2019	15
Prevención de riesgos laborales en tareas de mantenimiento mecánico y trabajos eléctricos	Almansa, Albacete (Spain)	02/07/2019	11
Prevención de riesgos laborales en tareas de mantenimiento mecánico y trabajos eléctricos	Villaluenga de la Sagra, Toledo (Spain)	11/07/2019	13
Elección, uso y mantenimiento de equipos de protección individual	Chiloeches, Guadalajara (Spain)	12/07/2019	14
Curso "Presentación del proyecto BIMclay"	Castellón (Spain)	05/11/2019	11



08/05/2019. Herrera, Sevilla (Spain)

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09/05/2019. Herrera, Sevilla (Spain)



10/05/2019. Herrera, Sevilla (Spain)

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23/05/2019. Villaluenga de la Sagra, Toledo (Spain)



25/05/2019. Alcañiz, Teruel (Spain)

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27/05/2019. Llíria, Valencia (Spain)

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30/05/2019. Llíria, Valencia (Spain)

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31/05/2019. Fortuna, Murcia (Spain)



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04/06/2019. Llíria, Valencia (Spain)

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05/06/2019. Llíria, Valencia (Spain)

*Image protected by the Data Protection Law.*

08/06/2019. Alcañiz, Teruel (Spain)

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10/06/2019. Llíria, Valencia (Spain)



11/06/2019. Pereiro de Aguiar, Ourense (Spain)

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13/06/2019. Llíria, Valencia (Spain)

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15/06/2019. Callosa d'en Sarrià, Alicante (Spain)

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17/06/2019. Llíria, Valencia (Spain)

*Image protected by the Data Protection Law.*

19/06/2019. Llíria, Valencia (Spain)



20/06/2019. Agost, Alicante (Spain)



22/06/2019. Alcañiz, Teruel (Spain)

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24/06/2019. Almansa, Albacete (Spain)



25/06/2019. Villaluenga de la Sagra, Toledo (Spain)



25/06/2019. Castellón (Spain)



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26/06/2019. Villaluenga de la Sagra, Toledo (Spain)

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27/06/2019. Agost, Alicante (Spain)

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28/06/2019. Chiloeches, Guadalajara (Spain)

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29/06/2019. Alcañiz, Teruel (Spain)

*Image protected by the Data Protection Law.*

02/07/2019. Almansa, Albacete (Spain)

*Image protected by the Data Protection Law.*

11/07/2019. Villaluenga de la Sagra, Toledo (Spain)

*Image protected by the Data Protection Law.*

12/07/2019. Chiloeches, Guadalajara (Spain)



05/11/2019. Castellón (Spain)

## iED

Name of the course/training	Venue	Date/Period	Number of students
Computer Aided Design I (COURSE)	Department of Architecture, University of Thessaly, Volos	1/10/18-7/1/19	60
Computer Aided Design II (COURSE)	Department of Architecture, University of Thessaly, Volos	18/2/19-14/6/19	63
Digital Design (COURSE)	Department of Computer Engineering, Technological Educational Institute of Thessaly, Larissa	1/10/18-7/1/19	85
Training in the framework of the Erasmus+ project RESTART	Venue of STHEV	19/7-23/8/2019	19



## HISPALYT

Name of the course/training	Venue	Date/Period	Number of students
PROYECTO BIMclay EJECUCIÓN FACHADA AUTOPORTANTE	Conducted via videoconference	18-12-2019	8
PROYECTO BIMclay EJECUCIÓN DE PAVIMENTO CON ADOQUÍN CERÁMICO	Conducted via videoconference	18-12-2019	3
PROYECTO BIMclay EJECUCIÓN CUBIERTA MICROVENTILADA	Conducted via videoconference	18-12-2019	5
PROYECTO BIMclay EJECUCIÓN DE PAREDES DE LADRILLO CERÁMICO	Conducted via videoconference	18-12-2019	17

## 2.2. OTHER EVENTS

**Table 2.2.1. Other events (workshops, meetings, seminars, etc.) where BIMclay project was shown**

### CTM

Name of the event	Venue	Date/Period	Number of attendants
Technical day in Marmomac Fair 2018	Verona (Italy)	26-29/09/2018	65000
Semana de la Ciencia y la Tecnología 2018	Murcia (Spain)	26-28/10/2018	25000
2 <sup>nd</sup> Transnational of ESSENSE project	Yecla, Murcia (Spain)	08/04/2019	15
Plan Contract Región de Murcia	Cehegín, Murcia (Spain)	25/04/2019	33
4 <sup>th</sup> International Meeting of SafePlace project	Würzburg (Germany)	02-03/05/2019	14
1 <sup>st</sup> Workshop of UrbanBIM project	Sevilla (Spain)	15/05/2019	79
2 <sup>nd</sup> Transnational Meeting of UrbanBIM project	Sevilla (Spain)	16/05/2019	13
Technical day in Marmomac Fair 2019	Verona (Italy)	25-28/09/2019	69000
Semana de la Ciencia y la Tecnología 2019	Murcia (Spain)	08-10/11/2019	28000
1 <sup>st</sup> Transnational Meeting of WinSTONE project	Cehegín (Spain)	19/11/2019	9
1 <sup>st</sup> Transnational Meeting of CircularBIM project	Alicante (Spain)	02/12/2019	11
1 <sup>st</sup> Transnational Meeting of BIMhealthy project	Cehegín (Spain)	03/12/2019	22

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28/09/2018. Verona (Italy)



08/04/2019. Yecla, Murcia (Spain)



25/04/2019. Cehegín, Murcia (Spain)



28/09/2019. Verona (Italy)





27/10/2018. Murcia (Spain)

## iED

Name of the event	Venue	Date/Period	Number of attendants
BIM and Paperless Design (SEMINAR)	Department of Civil Engineers, University of Thessaly, Volos	23/05/2018	136
Entrepreneurship, commerce and education	Larissa Chamber of Commerce and Industry & Association of Thessalian Enterprises and Industries	07/20/2019	100
Entrepreneurship: from the idea generation to implementation	Lido organization	13/02/2019	90
IED's Greek newsletter 1 ( <a href="#">link</a> )	IED	24/06/2019	570 – see attached evidence
IED's English newsletter 2 ( <a href="#">link</a> )	IED	18/07/2019	5549– see attached evidence
IED's Greek newsletter 3 ( <a href="#">link</a> )	IED	21/08/2019	578– see attached evidence



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### 3. BEYOND THE END OF THE PROJECT

Partners of the project will use the final version of the BIMclay Multimedia Cards, Interactive BIM Tool and ORC in their courses beyond the end of the project. In the following tables are shown some examples scheduled.

**Table 3.1.1. Courses or trainings where BIMclay project results will be shown**

**CTM**

Name of the course/training	Venue	Date/Period	Number of students
Not yet scheduled			

**Table 3.1.2. Other events (workshops, meetings, seminars, etc.) where BIMclay project results will be shown**

**CTM**

Name of the event	Venue	Date/Period	Number of attendants
1 <sup>st</sup> International Seminar of WinSTONE project	Split (Croatia)	12/05/2020	-
1st Workshop of CircularBIM project	Bucharest (Romania)	01/07/2020	-
Final International Seminar of UrbanBIM project	Brasov (Romania)	03/07/2020	-
Marmomac Fair 2020	Verona (Italy)	30/09/2020-03/10/2020	-

**HISPALYT**

Name of the event	Venue	Date/Period	Number of attendants
Jornada Infoedita	A Coruña	11-02-2020	50
Jornada Infoedita	Bilbao	05-03-2020	50
Jornada Infoedita	Marbella	12-05-2020	50
Jornada Infoedita	Alicante	14-05-2020	50
Jornada Infoedita	San Sebastián	19-05-2020	50
Jornada Infoedita	Barcelona	28-05-2020	50



### 3. QUESTIONNAIRE

A specific questionnaire was created for checking and improving the course curricula, the multimedia material produced, both general placing supporting materials and BIMclay Multimedia Cards, as well as the ORC.

This training activities was implemented with the aim at providing assessment by education staff about the content of the curricula and the multimedia material produced during the project.

The questionnaires delivered to attendees included a generic question to propose the comments they consider necessary to improve the quality of all BIMclay project products.

Below is the questionnaire carried out for the evaluation of this project and its products.



## BIMclay project – Training Activity

### Feedback questionnaire

#### 1. Overall, how satisfied were you with the training activity?

Please tick a box in the respective line.

Very satisfied	Rather satisfied	Neither satisfied nor unsatisfied	Rather unsatisfied	Not satisfied at all

#### 2. To what extent do you agree or disagree with the following statements?

Please, tick a box in each line.

	Fully agree	Rather agree	Neither agree nor disagree	Rather disagree	Fully disagree
Training activity's contents were of my interest					
I feel now better informed on various aspects related to the ceramic sector					
I now better understand the benefits of the BIMclay approach					
I feel that I have broaden my knowledge, competences and skills regarding BIM technologies					

#### 3. To what extent did the training activity show the following attributes?

Please, tick a box in each line.

	Fully agree	Rather agree	Neither agree nor disagree	Rather disagree	Fully disagree
Contents were clearly understandable					
Contents were interesting and motivating					
Training activity was well-organized and well-structured					





Overall atmosphere was pleasant

4. Do you have any further comments and recommendations on the training activity? What could have been done better?

Please tick a box in each line.

	Scale	1	2	3	4	5	6	7	8	9	10
The co-ordination and the secretariat functioned:	1: Inefficiently 10: Efficiently										
The information you received before the training activity, intended to facilitate your participation was:	1: Incomplete 10: Exhaustive										
The organization of the facilities used for the training activity were:	1: Not suitable 10: Suitable										
How was the available technical equipment during the training activity?	1: Not suitable 10: Suitable										
The agenda of the training activity was:	1: Unclear 10: Clear										
The material distributed during the training activity was:	1: not useful 10: useful										
The way you were received at the training activity was:	1: poor 10: good										
At the start of the training activity, the themes, the time available and the procedures were:	1: not clear 10: clear										
The time management of the training activity was:	1: inadequate 10: adequate										
The working conditions for the training activity were:	1: unsatisfactory 10: satisfactory										
The working atmosphere of the training activity was:	1: unsatisfactory 10: satisfactory										
The general management of the training activity was:	1: unsatisfactory 10: satisfactory										
The management of the development of the work in the training activity was:	1: unsatisfactory 10: satisfactory										



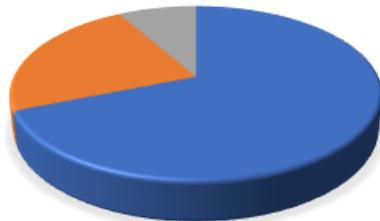
### 3.1. QUESTIONNAIRE RESULTS

In total, 61 questionnaires were filled out by attendees at the different courses and events where the BIMclay project was shown. The results of these questionnaires can be seen below:

**1. Overall, how satisfied were you with the training activity?**

Very satisfied	Rather satisfied	Neither satisfied nor unsatisfied	Rather unsatisfied	Not satisfied at all
42	14	5	0	0

**1. Overall, how satisfied were you with the training materials?**



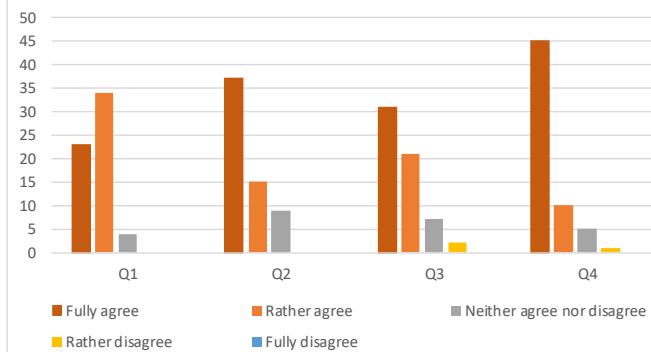
- Very satisfied
- Rather satisfied
- Neither satisfied nor unsatisfied
- Rather unsatisfied
- Not satisfied at all



**2. To what extent do you agree or disagree with the following statements?**

	Fully agree	Rather agree	Neither agree nor disagree	Rather disagree	Fully disagree
Q1: Training materials' contents were of my interest.	23	34	4	0	0
Q2: I feel now better informed on various aspects related to the ceramic sector.	37	15	9	0	0
Q3: I now better understand the benefits of the BIMclay approach.	31	21	7	2	0
Q4: I feel that I have broadened my knowledge, competences and skills regarding BIM technologies.	45	10	5	1	0

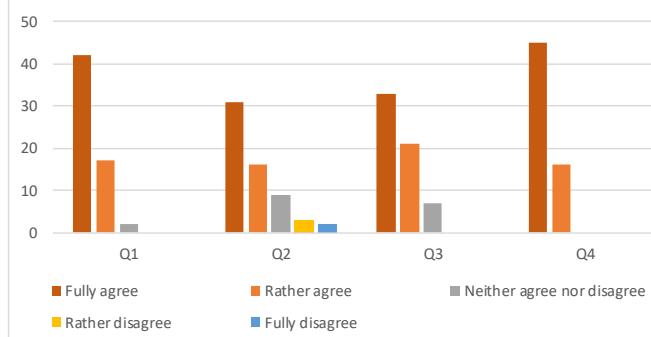
**2. To what extent do you agree or disagree with the following statements?**



**3. To what extent did the training activity show the following attributes?**

	Fully agree	Rather agree	Neither agree nor disagree	Rather disagree	Fully disagree
Q1: Contents were clearly understandable.	42	17	2	0	0
Q2: Contents were interesting and motivating.	31	16	9	3	2
Q3: Training activity was well-organized and well-structured.	33	21	7	0	0
Q4: Overall atmosphere was pleasant.	45	16	0	0	0

**3. To what extent do the Online Resource Centre (ORC) show the following attributes?**

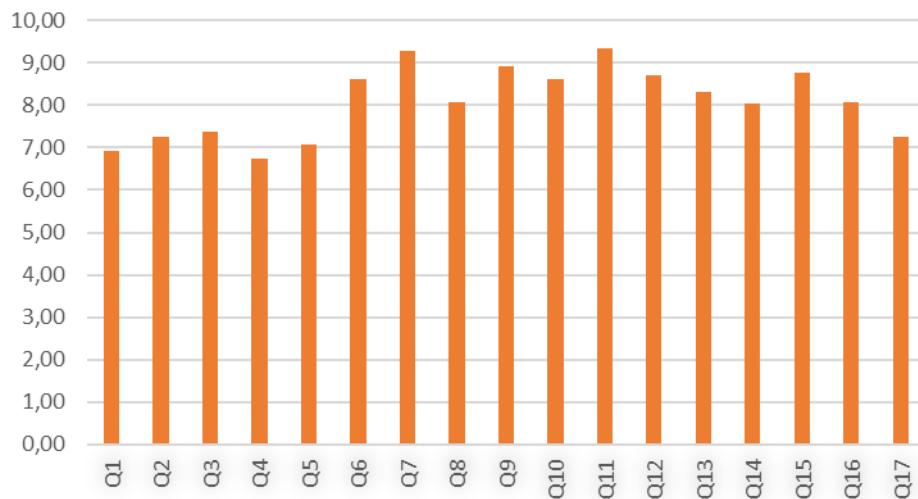




**4. Do you have any further comments and recommendations on the training activity? What could**

	1	2	3	4	5	6	7	8	9	10	AVERAGE SCORE
Q1. The co-ordination and the secretariat functioned:	0	2	0	5	7	0	24	17	0	6	6,93
Q2. The information you received before the training activity, intended to facilitate your participation was	0	0	3	0	8	3	19	10	18	0	7,25
Q3. The organization of the facilities used for the training activity were:	0	0	0	7	1	19	13	8	8	15	7,38
Q4. How was the available technical equipment during the training activity?	0	0	1	0	15	7	23	5	9	1	6,75
Q5. The agenda of the training activity was:	0	0	0	6	3	7	14	28	1	2	7,08
Q6. The material distributed during the training activity was:	0	0	0	0	1	0	8	12	31	9	8,62
Q7. The way you were received at the training activity was:	0	0	0	0	0	0	2	11	15	33	9,30
Q8. At the start of the training activity, the themes, the time available and the procedures were:	0	0	0	4	0	1	7	27	15	7	8,07
Q9. The time management of the training activity was:	0	0	1	0	0	4	7	2	18	29	8,92
Q10. The working conditions for the training activity were:	0	0	0	0	0	2	0	23	31	5	8,61
Q11. The working atmosphere of the training activity was:	0	0	0	0	0	0	3	0	31	27	9,34
Q12. The general management of the training activity was:	0	0	0	0	0	0	7	15	28	11	8,70
Q13. The management of the development of the work in the training activity was:	0	0	0	0	2	7	0	15	34	3	8,33
Q14. The level of participation of the different components of the partners' group was:	0	2	0	0	5	3	2	18	24	7	8,05
Q15. Did your questions receive satisfactory answers?	0	0	0	0	4	8	0	12	0	37	8,75
Q16. The amount of time available for the training activity was:	0	0	0	0	3	0	16	21	13	8	8,07
Q17. The level of correspondence of the results of the training activity with the established objectives was:	0	0	0	3	0	15	24	0	17	2	7,26

4. Do you have any further comments and recommendations on the training activity? What could have been done better?



### 3.2. CONCLUSIONS

According to the data obtained from the questionnaires carried out in the training activities, it can be concluded that the results have been really positive. Of the 61 people surveyed, more than 93% of the total considered that all aspects related to the activity (contents, organisation, materials used, etc.) were good or very good.

Some of the personal comments left by the attendees of these days are collected in the following lines:

- It is very interesting to make didactic materials and projects focused on such a specific sector as clay and ceramics.
- The animations created in this project are very easy to understand and very useful for the apprentices of this sector.
- The tool seems easy to use and the information is easy to visualise.
- The LCA information included in the BIM objects will be very important for future projects and the reduction of environmental impact.