



**MuSA**  
museum sector alliance

## R3.4 DIGITAL OERS



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Abstract:	A set of digital Open Educational Resources was produced in order to support the up-skilling of museum and cultural organization professionals through the implementation of the VET curricula using the VET methodology. Totally 64 training modules were developed for transferrable competences / 21 <sup>st</sup> century skills and digital competences. The complete set of OERs is available through the Mu.SA online platforms used to deliver the MOOC and the four Specialization Courses.
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## Table of Contents

Introduction.....	4
1 Selected OERs publicly available.....	5
2 OERs for the MOOC .....	8
3 OERs for the Specialization Course .....	10
4 Appendix I: Indicative OERs .....	13
5 Appendix II: Content design documents.....	14



## Introduction

The digital Open Educational Resources were produced by the Mu.SA consortium in order to support the up-skilling of museum and cultural organization professionals through the implementation of the VET curricula using the VET methodology. Totally 64 training modules were developed and delivered to the trainees through the MOOC and the Specialization Courses, and from those, 42 were selected and are publicly available under the [Mu.SA project website](#). The procedure of the training content design and productions followed a coherent scientific methodology (presented under R3.2 – Methodology for Realizing VET curricula).

Based on the Mu.SA project description, the consortium decided to select and make publicly available Open Education Resources from 42 competence modules. Totally 84 OERs were selected, two from each competence. For the purposes of the Mu.SA training offer (including the MOOC and Specialization courses) much more OERs were developed / used. These OERs synthesize the Mu.SA training offer, organized under competence modules. Typically, these OERs are videos, texts, practical assignments (exercises), assessment materials, delivered to the learners through the respective online platforms. They are organized in a logical sequence (curricula) and some types of them (e.g. the assessment quizzes) can be delivered only through a learning platform, or their delivery requires a “kind of support” by a tutor (e.g. grading of the practical assignment). Therefore, the Mu.SA consortium asked each competence module author to select two OERs, preferably in video format, accompanied with subtitles in the project languages (English, Italian, Greek, Portuguese) and deliver them online in the form of OERs, through the project website. Of course, all OERs delivered through the MOOC course were publicly available (upon registration) and the OERs delivered through the Specialization course were also open for the registered / selected trainees. In case the Mu.SA project decides to continue its training offer, in the same scheme, in the future, the content developed by the consortium will continue to be openly available, through the respective platforms.



## 1 Selected OERs publicly available

Based on the Mu.SA project description, the consortium decided to select and make publicly available Open Education Resources from 42 competence modules (22 digital competences originating from the e-CF 3.0 and the DigComp 2.1 frameworks, and 20 transferable / 21<sup>st</sup> century skills). Totally 84 OERs were selected, two from each competence. These OERs are accessible online through the website of Mu.SA project: <http://www.project-musa.eu/results/oers/> .

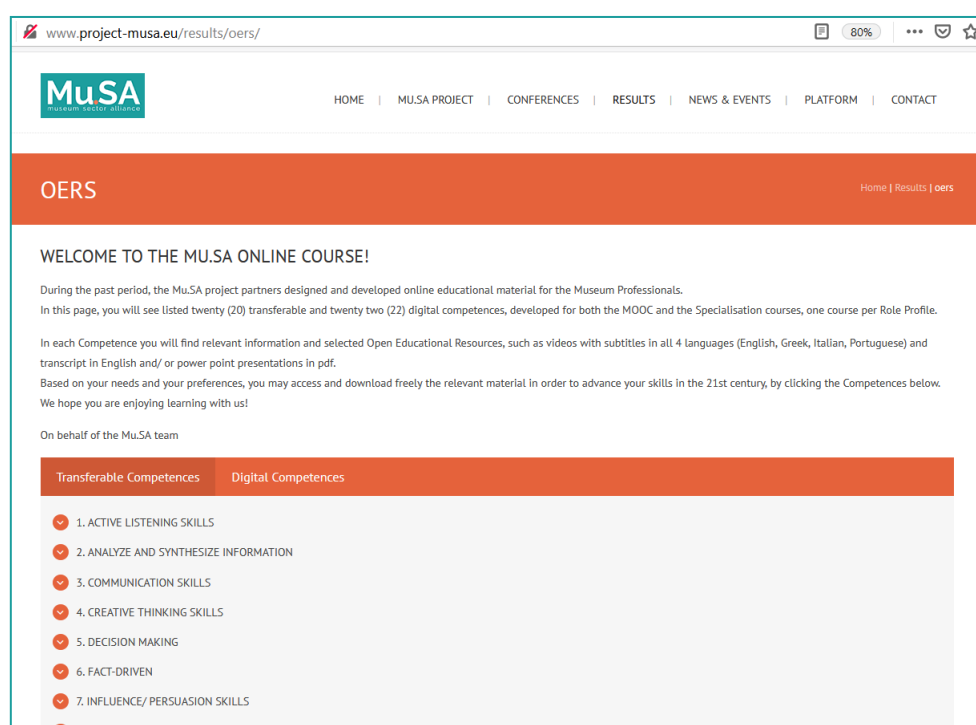


Figure 1 – The Mu.SA OER web page

The OERs are organized under two categories; transferable competences and digital competences. In each competence the visitor may find relevant information and selected Open Educational Resources, such as videos with subtitles in all 4 languages (English, Greek, Italian, Portuguese) and transcript in English and/ or power point presentations in pdf. Under each competence title, the visitor may find the two OERs, the name of the author, the Mu.SA partner developed it, and its relevance with one or more Mu.SA Job Role

Profiles. We remind the reader that the four Job Role profiles Mu.SA developed are, (a) Digital Strategy Manager (DSM), (b) Digital Collections Curator (DCC), (c) Digital Interactive Experience Developer (DID), and (iv) Online Community Manager (OCM).

The OERs are organized under the following competence.

Competence Title	Framework
Application design	e-CF
Business change management	e-CF
Business plan development	e-CF
Copyright and licenses	DigComp
Developing digital content	DigComp
Documentation production	e-CF
Forecast development	e-CF
Information and knowledge management	e-CF
Innovating	e-CF
IS and business strategy alignment	e-CF
Managing digital identity	DigComp
Needs identification	e-CF
Netiquette	DigComp
Problem management	e-CF
Process improvement	e-CF
Product / Service planning	e-CF
Protecting personal data and privacy	DigComp
Purchasing	e-CF
Risk management	e-CF
Solution deployment	e-CF
Solving technical problems	DigComp
User support	e-CF

Table 1 – Publicly available digital competences



Competence Title	
Active listening skills	Management skills
Analyze and synthesize information	Mediation skills
Communication skills	Mentoring / Coaching skills
Creative thinking skills	Negotiation skills
Decision making	Networking skills
Fact-driven	Resilience
Influence / Persuasion skills	Sense of initiative and entrepreneurship
Integrity / Ethical	Storytelling
Interpersonal skills	Team working
Leadership and change facilitator	Time management

Table 2 – Publicly available transferable competences



## 2 OERs for the MOOC

As described in the introduction and in detail in previous deliverables, Mu.SA developed a set of competence materials delivered to the trainees through an 80-hour MOOC entitled “Essential digital skills for museum professionals”. This course included 22 competence modules that were common for all Job Role profiles. More than 100 people of the MOOC alumni in the three project countries were selected and continued to the Specialization courses.

The competences were grouped into weeks and were delivered in 8 weeks time. Each competence included a short description, the knowledge domain, the learning objectives, a competence dedicated forum, and the OERs (learning materials, assessment quizzes). The following competences were delivered through the MOOC. The reader may find the complete training content and the OERs directly in the MOOC course.

MOOC (Introductory course)		
<i>Competence</i>	<i>Type</i>	<i>Hours</i>
<a href="#">IS and business strategy alignment</a>	e-CF	5
<a href="#">Browsing, searching and filtering data, information and digital content</a>	DigComp	2,5
<a href="#">Managing data, information and digital content</a>	DigComp	2,5
<a href="#">Business Plan Development</a>	e-CF	5,5
<a href="#">Evaluating data, information and digital content</a>	DigComp	2,5
<a href="#">Identifying needs and technological responses</a>	DigComp	2,5
<a href="#">Technology trend monitoring</a>	e-CF	4
<a href="#">Netiquette</a>	DigComp	2,5
<a href="#">Leadership and change facilitator</a>	Transferable	4
<a href="#">Innovating</a>	e-CF	5
<a href="#">Innovating and creatively using technology</a>	DigComp	2,5
<a href="#">Creative thinking skills</a>	Transferable	4





<b>MOOC (Introductory course)</b>		
<b>Competence</b>	<b>Type</b>	<b>Hours</b>
<a href="#">Needs identification</a>	e-CF	4
<a href="#">Developing digital content</a>	DigComp	2,5
<a href="#">Collaborating through digital technologies</a>	DigComp	2,5
<a href="#">Forecast development</a>	e-CF	5
<a href="#">Team working</a>	Transferable	4
<a href="#">Relationship management</a>	e-CF	4
<a href="#">Protecting personal data and privacy</a>	DigComp	2,5
<a href="#">ICT quality management</a>	e-CF	5
<a href="#">Communication skills</a>	Transferable	4
<a href="#">Time management</a>	Transferable	4
	<b>TOTAL</b>	<b>80</b>

Table 3 – MOOC competences



### 3 OERs for the Specialization Course

The Mu.SA Specialization courses were used to support the selected museum professionals in the development and the acquaintance of the respective Mu.SA Job Role profile certification. They included online learning, face-to-face training, and work-based learning. A set of competences were selected synthesizing each different course. These competences were in some times commons and in some times different between the job role profiles. In the Mu.SA specialization course platform, the trainee could find the competences organized in weeks. Each competence included a short description, the knowledge domain, the learning objectives, a competence dedicated forum, and the OERs (learning materials, practical assignments, assessment quizzes). The following competences were delivered through the Specialization courses. The reader may find the complete training content and the OERs directly in each course (please click in the hours of each competence to go directly to the competence module of each different role).

Competence title	Type	# of hours for online learning (learning equivalent)			
		DSM	DCC	DID	OCM
Product / Service Planning	e-CF	<a href="#">6</a>	<a href="#">6</a>	<a href="#">6</a>	<a href="#">6</a>
Identifying digital competences gaps	DigComp	<a href="#">2,5</a>	<a href="#">2,5</a>	<a href="#">2,5</a>	<a href="#">2,5</a>
Service Level Management	e-CF	<a href="#">8,5</a>			
Application Design	e-CF			<a href="#">6</a>	
Management skills	Transfer able		<a href="#">5</a>		<a href="#">5</a>
Protecting personal data and privacy	DigComp	<a href="#">2,5</a>	<a href="#">2,5</a>	<a href="#">2,5</a>	<a href="#">2,5</a>
Sustainable Development	e-CF	<a href="#">8,5</a>			
Application Development	e-CF			<a href="#">6</a>	
Managing digital identity	DigComp	<a href="#">2,5</a>	<a href="#">2,5</a>	<a href="#">2,5</a>	<a href="#">2,5</a>
Influence / persuasion skills	Transfer able		<a href="#">5</a>		<a href="#">5</a>



Competence title	Type	# of hours for online learning (learning equivalent)			
		DSM	DCC	DID	OCM
Testing	e-CF			<u>6</u>	
Information Security Strategy Development	e-CF	<u>8,5</u>			
Documentation Production	e-CF		<u>6</u>	<u>6</u>	<u>6</u>
Mentoring / coaching skills	Transfer able	<u>5</u>	<u>5</u>		<u>5</u>
Copyright and licenses	DigComp	<u>2,5</u>	<u>2,5</u>	<u>2,5</u>	<u>2,5</u>
Solution Deployment	e-CF			<u>6</u>	
Education and Training Provision	e-CF	<u>6</u>			
Service Delivery	e-CF		<u>6</u>		
Integrity / ethical	Transfer able				<u>5</u>
Programming	DigComp	<u>2,5</u>	<u>2,5</u>	<u>2,5</u>	<u>2,5</u>
User Support	e-CF			<u>6</u>	<u>6</u>
Information and Knowledge Management	e-CF	<u>8,5</u>	<u>11</u>		
Change Support	e-CF			<u>6</u>	
Decision making	Transfer able	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>
Solving technical problems	DigComp	<u>2,5</u>	<u>2,5</u>	<u>2,5</u>	<u>2,5</u>
Problem Management	e-CF		<u>8,5</u>	<u>8,5</u>	<u>8,5</u>
Purchasing	e-CF	<u>8,5</u>	<u>8,5</u>		
ICT Quality Strategy Development	e-CF				<u>11</u>
Process Improvement	e-CF	<u>8,5</u>			
Fact-driven	Transfer able			<u>5</u>	
Sense of initiative and entrepreneurship	Transfer able	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>
Analyse and synthesize information	Transfer able	<u>5</u>		<u>5</u>	<u>5</u>
Digital Marketing	e-CF				<u>8,5</u>

Competence title	Type	# of hours for online learning (learning equivalent)			
		DSM	DCC	DID	OCM
Risk Management	e-CF	<u>8,5</u>	<u>8,5</u>	<u>8,5</u>	
Business Change Management	e-CF	<u>8,5</u>			<u>11</u>
Interpersonal skills	Transferable		<u>5</u>	<u>5</u>	<u>5</u>
Mediation skills	Transferable			<u>5</u>	
Networking skills	Transferable	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>
Negotiation skills	Transferable	<u>5</u>		<u>5</u>	<u>5</u>
Active listening skills	Transferable		<u>5</u>	<u>5</u>	<u>5</u>
Resilience	Transferable	<u>5</u>		<u>5</u>	<u>5</u>
Storytelling	Transferable			<u>5</u>	<u>5</u>
Mediation skills	Transferable		<u>5</u>		

Table 4 – Specialization courses competences

## 4 Appendix I: Indicative OERs

In the folder "R3.4", the reader may find indicative OERs for three competence modules. These can be found under the folders "Module 2.1 Business Plan Development\_eCF", "Module 7.2 Protecting personal data and privacy\_DigComp", and "Module SC 20.1 Networking Skills\_21st century skills". Due to storage limitations, only some OERs can be hosted in the internal area. The whole set of the OERs can be accessed through the platforms using the provided credentials.



## 5 Appendix II: Content design documents

In the folder "Content design documents", the reader may find the design documents produced by the authors for all the 64 competence modules. The files are named based on the templates used (e.g. TB1, TB2, TB3, for more information please read the R3.2), and include also the updated files produced under *T3.7 Upgrade MOOC contents* and *T3.8 Upgrade elearning contents* identified usually with a "\_2" or "\_updated" in the file name. The competences are organized under folders entitled "Digital" and "Transferable / 21<sup>st</sup> century skills" indicating the type of competence, and in the case of digital competences, the framework originating is mentioned in the title of the subfolder.

