

TRAINING HANDBOOK FOR

"ONLINE COMMUNITY MANAGER"



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Abstract:	This document consist the Handbooks for the VET curricula of Online Community Manager. It was developed from the Mu.SA project, aiming to support VET providers and tutors who would like to implement this VET curricula. It capitalizes on the full potential of various learning settings and applies EQAVET principles. Various ways of implementing the VET methodology are described, addressing the needs of different audiences, taking into account the context of training and the special attributes of the trainees. It also incorporates the specification of procedures to validate prior, informal and non formal learning of the professionals of the museum sector, and guidelines for applying EQAVET principles and procedures.
	The handbook presents the details of the competence modules that must be delivered to the trainees, first through an introductory course, and second through a specialization course.
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Table of Contents

Int	rodu	uctio	on	6
1	Des	scrij	ption of Online Community Manager	7
2	VE	ΓМ	ethodology	9
2	2.1	Ass	suring quality through EQAVET principles	11
2	2.2	Au	diences	13
2	2.3	Int	roductory course	14
2	2.4	Sp	ecialization course	16
3	Pro	ced	lures to validate prior, informal and non formal learning	20
4	The	e co	mpetences in a glance	23
2	1.1	Int	roductory course	23
۷	1.2	Sp	ecialization course	30
۷	1.3	Inc	licative work-based learning activities	39
5	Арр	ben	dix	41
5	5.1	Int	roductory course	41
	5.1	.1	Digital competences (e-CF)	41
	5.1	.2	Digital competences (DigComp)	49
	5.1	.3	Transferrable competences / 21 st century skills	57
5	5.2	Sp	ecialization course	63
	5.2	.1	Digital competences (e-CF)	63
	5.2	.2	Digital Competences (DigComp)	69
	5.2	.3	Transferrable / 21 st century skills	73
	5.3	Inc	licative work-based learning activities	82
5	5.4	Co	mpetence handbooks	86



Table of Contents

Table 1 – Online Community Manager description	7
Table 2 – EQAVET Stage 1: Planning	11
Table 3 – EQAVET Stage 2: Implementation	12
Table 4 – EQAVET Stage 3: Evaluation	12
Table 5 – EQAVET Stage 4: Review	13
Table 6 – Training modules of the introductory course	15
Table 7 – Types of assessment	17
Table 8 – Training modules of the specialization course	18
Table 9 – Hours of learning materials for the specialization course	19



Introduction

The Mu.SA project was implemented between 2016 and 2020, addressing the training needs of Museum and cultural organizations professionals. It produced a range of innovative outcomes, including among others, (a) four profiles of emerging job roles in museums and cultural organizations that will serve as a common reference at the European level, (b) a staged VET methodology based on learning outcomes, (c) modular VET curricula that dynamically combine training modules for digital and transferable competences, (d) a MOOC for delivering the basic competences, (e) a European specialization course that combines e-learning, face to face instruction and work place learning, and (f) Communities of Practice (one per project country, i.e. Italy, Greece and Portugal, and one at the European level), in order to support Museum and Cultural Organization Professionals to engage into an open dialogue and sustainable peer learning. European instruments (EQF, ECVET and EQAVET) were applied improving transparency and recognition of qualifications.

This document consists the training handbook that will be used from the tutors and VET providers that intend to deliver the VET curricula for Online Community Manager after the end of the Mu.SA project lifecycle. The handbook is based on the separate handbooks that were developed during the different competences design, in a modular approach.

In this document, VET providers and tutors will find information on Online Community Manager, and specifically how to implemented the Mu.SA training methodology. Their main endeavour is to motivate learners, so as to engage them into the competence development procedure and decrease drop-out, and to solve them any questions, especially through the respective competence communication mechanism (forum).



1 Description of Online Community Manager

Table 1 – Online Community Manager description

Online	e Community Manager description	
Title	ONLINE COMMUNITY MANAGER Also known as Online Cultural Community Manager, (as in the previous project Cult skills, which Mu.SA is a follow up), Digital Communication Manager, (as stated in interviews) Digital Media Curator, Visual Media curator, New Media Manager, Social Media Specialist or Online Community Developer. The Online Community Manager answers to the needs	
	of both the online and offline communities. S/he creates and manages accessible and collaborative online communities for all stakeholders (audiences, colleagues in museums and cultural heritage sector, educational organisations, donors, sponsors, decision makers, etc.).	
Academic qualification Sector (Recommended)	Museum specialisation (desired)	
Tasks/ Key responsibilities	University degree (Communication/Art/etc.)	



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Environment	As a member of the team for communication, marketing and audience development, the Online Community Manager is responsible for developing and implementing an online audience development plan in line with a museum's overall strategic plan and mission.
KPIs	 Number of online audience projects begun, implemented, completed, and failed Quantity and frequency of new and returning audiences reached through the digital strategy (audience engagement) Audience satisfaction score Digital traceability
Relationships	Reports to: Head of Communication and marketing Interacts with: Curatorial department ICT department Education department Customer relationship services Management department



2 VET Methodology

Museum and cultural organization professionals face various challenges, including but not limited to the exploitation of contemporary ICT technologies so as to increase their effectiveness and efficiency, engage the public and exploit the potential of cultural resources. According to Eurostat $(2019)^1$, the 40% of all UNESCO cultural world heritage sites are located in the EU member states (over 350 in 2019). Around 9 million people in the EU-28 were working in the field of culture (around 3.8% of the total employment), with the 60% of cultural employees having a tertiary education degree (around 35% in total employment), proving the increased skillset of the human capital of the sector. Additionally, the one third of them reported being self-employed. Around the 5% of all enterprises in Europe, i.e. around 1.2 million, were operating in the sector in 2016, generating more than 1.2 billion \in of value added. These numbers set the landscape around culture and prove that there is human capital development market that could exploit the potential created by the Mu.SA project.

In practice, the museum and cultural organization sector is dominated by many small organizations that – as in other economic sectors – have limited capability in re-skilling and up-skilling their workforce. This fact also proves the need for multitasking by several employees. In this regard, the Mu.SA project developed four Job Role Profiles, and provided to the community particular human resource development training interventions, exploiting the potential of the WWW (i.e. online learning), accompanying it with face-to-face and work based learning instruction. Mu.SA created also a plenty of learning resources, with the majority of them freely available through its website (<u>http://www.project-musa.eu/results/oers/</u>), categorized by the type of competence and linked with the identified Job Role profiles. The project synthesized the four different VET curricula, and implemented a particular training methodology.

The implementation of the VET Curricula follows a staged methodology. The learners first go through an introductory solely online learning course (in the form of a MOOC – Massive Open Online Course) that includes 22 training modules (competences) that support them to acquire digital and transferable skills². The people that successfully complete this first stage, receive a certificate and are eligible to continue to a specialization course on one of the Mu.SA Job Role Profiles. The specialization course includes 25 competence (on average) per curricula, delivered through online learning. It also includes face-to-face instruction, and a serious component of work-based learning, where learners are called to implement in practice a subset of the learning outcomes they were taught. Indicative work-based learning activities were available to support this endeavour. In the end, the successful candidates received a certification for the VET curricula they followed, accompanied with ECVET points. The Mu.SA VET methodology for the application of the Online Community Manager curricula is presented in detail in a following section.

¹ https://ec.europa.eu/eurostat/documents/3217494/10177894/KS-01-19-712-EN-N.pdf/915f828b-daae-1cca-ba54-a87e90d6b68b

² The term "transferable" is used equally to "horizontal" and "21st century skills".





The training modules consist autonomous and standalone competences originating from two digital competences frameworks and transferable competences. In particular, the digital competences originate from the European Digital Competence Framework for Citizens (DigComp 2.1)³, that includes basic digital skills, and the e-Competence Framework 3.0^4 , which focuses mostly to ICT professionals. The transferable competences focus mostly to soft skills, proven to be essential after extensive research for contemporary museum professionals.

VET providers that would like to exploit the results of the Mu.SA project, could follow different routes.

- They could implement the already tested Mu.SA approach, implementing the introductory course through e-learning (e.g. a MOOC) and then guide the successful learners towards the Mu.SA predefined Job Roles through the separate specialization courses that included online, face-to-face and workbased learning.
- 2. They could build on the potential of the modular (content) approach, and form new curricula, probably with adding additional learning materials. These new curricula could serve the needs of the museums and cultural organizations sector, or even neighboring sectors (e.g. suppliers of museums), supporting a wider market. In this case, the VET providers should follow the contend design and development approach used by Mu.SA (detailed in R3.2 Methodology for realizing VET curricula), so as to assure the quality of the results.
- 3. Last but not least, VET providers could form new curricula oriented to the needs of particular organizations, exploiting also the freely available material produced by Mu.SA.

At this point, we underline that the methodological approach designed, implemented and evaluated by Mu.SA is the most coherent one, and the Mu.SA consortium is willing to collaborate further with VET providers in Europe and above, to expand the approach in new areas and domains.

³ <u>https://publications.jrc.ec.europa.eu/repository/bitstream/JRC106281/web-digcomp2.1pdf (online).pdf</u> 4 <u>https://www.ecompetences.eu/</u>



2.1 Assuring quality through EQAVET principles

The EQAVET Quality Assurance reference framework for vocational education and training is based on the **2009 Recommendation of the European Parliament** and Council⁵. EQAVET is an approach to quality assurance or a reference framework for VET which has been agreed by Member States. It offers VET providers a straight forward way to monitor and improve the quality of their provision. It is based on the four stage cycle of planning, implementation, evaluation and review which is at the heart of many other quality assurance approaches. The four stages of the quality assurance cycle are interrelated and need to be addressed together.

The VET methodology for the design and implementation of the Online Community Manager curricula follows the EQAVET Quality Reference framework. We remind the reader that, the Online Community Manager curricula is assigned to the EQF 5 level.

Table 2 – EQAVET Stage 1: Planning

Stage 1: Planning

Planning reflects a strategic vision shared by the relevant stakeholders and includes explicit goals/objectives, actions and indicators. The VET curricula for Online Community Manager has been planned as follows:

- Explicit goals / objectives and targets were set and monitored, and the training programs supporting its implementation were designed to meet them.
- Ongoing consultation with the Mu.SA social partners and all other relevant stakeholders took place in order to identify Online Community Manager specific local / individual needs.
- The Mu.SA VET Providers have discussed cooperative initiatives with other VET providers and all other relevant stakeholders.
- The Online Community Manager VET curricula is described using learning outcomes.
- Mechanisms have been established for the quality assurance of the design, assessment, certification and review of qualifications⁶.
- VET providers have an explicit and transparent quality assurance system in place

⁵ <u>https://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:C:2009:155:0001:0010:EN:PDF</u>

⁶ The Online Community Manager Job Role profile is in the process of being recognized as a qualification in the EQF 5 level in the in the Mu.SA project countries (Italy, Greece, Portugal).



Table 3 - EQAVET Stage 2: Implementation

Stage 2: Implementation

Implementation plans are devised in consultation with stakeholders and include explicit principles:

- Relevant and inclusive partnerships, including those between teachers and trainers, were explicitly supported to implement the actions planned.
- VET providers' programmes for the Online Community Manager Job Role profile enabled learners to meet the expected learning outcomes and become involved in the learning process
- VET providers responded to the learning needs of individuals (museum professionals) by using approaches to pedagogy and assessment which enabled learners to achieve the expected learning outcomes
- VET providers used valid, accurate and reliable methods to assess individuals' learning outcomes.

Table 4 – EQAVET Stage 3: Evaluation

Stage 3: Evaluation

Evaluation of outcomes and processes was regularly carried out and supported by measurement:

- A methodology for evaluation has been devised, covering internal and external evaluation
- Stakeholder involvement in the monitoring and evaluation process was agreed and clearly described
- The national/regional standards and processes for improving and assuring quality were relevant and proportionate to the needs of the sector. Evaluation and review of the collection and use of data, and adequate and effective mechanisms to involve internal and external stakeholders were implemented.
- Self-assessment/self-evaluation was periodically carried out under national and regional regulations/frameworks or at the initiative of VET providers
- Evaluation and review covered processes and results/outcomes of the training including the assessment of learner satisfaction as well as staff performance and satisfaction



Table 5 – EQAVET Stage 4: Review

Stage 4: Review

- Learners' feedback was gathered on their individual learning experience and on the learning and teaching environment. Together with trainers' and all other relevant stakeholders' feedback this was used to inform further actions.
- Procedures on feedback and review were part of a strategic learning process in the Mu.SA organisation, supported the development of high quality provision, and improved opportunities for learners.
- Information on the outcomes of the review was widely and publicly available.
- Results/outcomes of the evaluation process were discussed with relevant stakeholders and appropriate action plans were put in place.

2.2 Audiences

The courses produced by the Mu.SA project, and the separate "blocks of content" formalized into stand-alone competences with assessment materials, address the needs of museum and cultural organizations professionals; this broad definition includes people that consist employers, employees, self-employed people, unemployed or even students that currently operate or would like to work in the sector. The VET curricula produced focus to particular Job Role Profiles, and have as a prerequisite (preferred) the existence of a bachelor degree; specific knowledge on the sector is not a prerequisite, as their objective is to exploit the potential of contemporary ICT technologies and help people to acquire prominent horizontal (transversal / 21st century) skills, so as to become effective and efficient in their work. Knowledge on the sectors is optional but "good to have".

The **employers** will find in the Mu.SA offer (VET curricula and learning materials) a well structured set of human capital development interventions so as to help their employees to exploit the potential of ICT technologies in order to enhance the services of their organizations, serving both the "internal" and the "external" customers. **Employees** will find a scientifically developed and tested approach and content so as to improve their employability opportunities, improve their effectiveness and efficiency, and provide new engaging cultural experiences for the public. **Self-employed** people that will follow one of the Mu.SA VET curricula will manage to specialize and provide oriented services to their customers, especially the smaller organizations that would like to outsource one of the functions (e.g. management of online communities of visitors). **Unemployed** people can get a certificate so as to increase their employability potential, developing competences on emerging topics for the museums of the future. **Students** will get practical knowledge and will facilitated for their transition from education to work.

Other target groups include the VET providers, adult trainers and policy makers. **VET providers** will find a coherent set of tools (methodologies, handbooks, lessons learned) on how to organize a program addressing the emerging training needs of



museum professionals. They can exploit also the potential of scientifically developed and tested learning materials, freely available, so as to serve the community offering the predefined VET curricula, or even develop more for the sector or neighboring sectors, taking advantage of the modular approach. **Adult trainers** can find a coherent methodology to support their students, tight up with the particular needs of (working) adults, using the pre-developed (per competence) handbooks. And last, **policy makers** will find a wisely developed and tested approach on how to re-skill and up-skill professionals of the sector, using it as a template in design new human resource development interventions.

2.3 Introductory course

The VET provider implements the introductory course that addresses the training needs of all Mu.SA Job Role Profiles and not only the needs of the Online Community Manager. This course is delivered fully online. In the context of the Mu.SA project, this introductory course was implemented through a MOOC including learners from all over the world!

The VET provider publishes an invitation to participation to potential candidates, and recruits the appropriate tutors to support and motivate learners. Following the registration procedure, the course starts. It lasts 8 weeks, with each week including 2-3 modules (competences). The learners totally have to devote on average 80 hours in order to attend the course and fill in the assessment quizzes (on average 10 hours per week). Each e-CF competence is taught in about 5 hours of study. Each DigComp competence is taught in 1-2 hours of study, whereas each transferable competence is taught in approximately 3 hours of study. The aforementioned hours per competence include both learning and assessment. The learners are able to communicate with the tutor of each competence through a dedicated communication mechanism online (forum).

In case the dropouts increase, the VET provider may implement a break in the middle of the course, so as to enable learners to catch up.

This course is set up so as to be delivered fully online (learning, assessment, learner support). Alternatively, the VET provider may implement in parallel some face-to-face sessions (at least two during the course lifecycle) so as to solve learners' queries, enhance learners' collaboration, and facilitate the learning content to the work context.



Table 6 – Training modules of the introductory course

Week	Competence	Туре
W1.1	IS and business strategy alignment	e-CF
W1.2	Browsing, searching and filtering data, information and digital content	DigComp
W1.3	Managing data, information and digital content	DigComp
W2.1	Business Plan Development	e-CF
W2.2	Evaluating data, information and digital content	DigComp
W2.3	Identifying needs and technological responses	DigComp
W3.1	Technology trend monitoring	e-CF
W3.2	Netiquette	DigComp
W3.3	Leadership and change facilitator	Transferrable / 21 st century skills
W4.1	Innovating	e-CF
W4.2	Innovating and creatively using technology	DigComp
W4.3	Creative thinking skills	Transferrable / 21 st century skills
W5.1	Needs identification	e-CF
W5.2	Developing digital content	DigComp
W5.3	Collaborating through digital technologies	DigComp
W6.1	Forecast development	e-CF
W6.2	Team working	Transferrable / 21 st century skills
W7.1	Relationship management	e-CF
W7.2	Protecting personal data and privacy	DigComp
W8.1	ICT quality management	e-CF
W8.2	Communication skills	Transferrable / 21 st century skills
W8.3	Time management	Transferrable / 21 st century skills



2.4 Specialization course

The alumni of the introductory course are eligible to apply for the specialization course in one of the four different Job Role Profiles. This course includes a blended learning (online and face-to-face) and a work-based learning component.

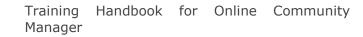
Following the results of the MOOC, the successful candidates are invited to declare their interest in joining the specialization course for the particular VET curricula. The VET provider announces the initiation of the course in its website and social media, and sends a specific invitation through its network. It informs the candidates about the number of available seats, the characteristics of eligible candidates, the criteria for selection, the VET curricula it offers (with a short description of the Job Role Profiles), the key elements of the course (blended – work-based learning), the duties of the learners that will be selected to participate, and closing data for the applications.

The candidates are called to fill in an application (Expression of Interest) that includes at least the following:

- Job role profile selected
- Main contact information, i.e. name and surname, contact details, country of residence, region and city.
- Academic and professional background information, i.e. upper academic diploma, English language level, years of relevant professional experience in a pertinent field, current employment status, contact information of the employer (in the sector of interest, in case of people already working there), the role in the organization, previous experience, potential agreement of the current employer to host the learner for the work-based learning, etc.
- Other information justifying the application, i.e. justification of the interest to participate in the specialization course, the expected impact of the specialization course to his/her professional career, a detailed CV (preferably in Europass format).
- A Letter of Intent from an employer in the field that is willing to host the learner for the work-based learning (optional). The VET provider should also provide to the learner an Information Sheet about the program and the work-based learning, answering the questions of the employers. Depending on the country legislation, a typical question arises from the employers concerns the social security costs. This issue should be solved in advance by the VET provider.

The VET provider should be open and transparent in the selection procedure. The Mu.SA experience proved that the particular VET curricula were very popular and attracted a lot of applications!

The specialization course for the Online Community Manager includes blended and work-based learning. The course lasts totally 24 weeks. It includes 26 competences / modules, delivered online in 137 hours (learning equivalent) that are accompanied with 24 hours of face-to-face instruction (practice, problem solving, exercises, case





studies presentation, etc) and 205 hours of work-based learning (preferably in 10 weeks time)⁷.

The online learning materials delivered to the learners through the Mu.SA platform included also learning quizzes for the assessment of the achievement of learning outcomes and the grading. The assessment of the work-based learning⁸ is conducted through a presentation and a report detailing the work conducted during the work-based learning. In general, the following methods are used for the assessment:

Type of assessment	Online	Face-to-face	Work-based learning
Formative	1. Observation (monitoring) of	Collaborative learning (not	1. Description of tasks and activities
	learners' progress by the tutor	rated)	performed (learner – supervisor)
	2. Monitoring of the learners' progress for the submission of		 Weekly question by the social partner (optional)⁹
	practical assignments		3. Bi-weekly
	3. Informative feedback from tutors through a		questionnaire by the VET provider 4. On site visits
-	particular form		
Summative	1. Learning quizzes		1. Final presentation
	2. Practical assignments		2. WBL final report

Table 7 – Types of assessment

⁷ The aforementioned numbers include also assessment

⁸ In some cases, the projects developed by the learners during the work-based learning are subject to copyright (from the employer side), therefore the delivery of the results to the VET provider may not be implemented.

⁹ This applies only if the VET provider organizes the program in collaboration with a sector representative



Table 8 – Training modules of the specialization course

#	Competence	Туре	Level
1	Product / service planning	e-CF	e-3
2	Identifying digital competences gaps	DigComp	
3	Management skills	Transferrable / 21 st century skills	
4	Protecting personal data and privacy	DigComp	
5	Influence / persuasion skills	Transferrable / 21 st century skills	
6	Managing digital identity	DigComp	
7	Documentation production	e-CF	e-3
8	Mentoring / coaching skills	Transferrable / 21 st century skills	
9	Copyright and licenses	DigComp	
10	Integrity / ethical	Transferrable / 21 st century skills	
11	Programming	DigComp	
12	User support	e-CF	e-3
13	Decision making	Transferrable / 21 st century skills	
14	Solving technical problems	DigComp	
15	Problem solving	e-CF	e-4
16	ICT quality strategy development	e-CF	e-5
17	Sense of initiative and entrepreneurship	Transferrable / 21 st century skills	
18	Analyse and synthesize information	Transferrable / 21 st century skills	
19	Digital marketing	e-CF	e-4
20	Business change management	e-CF	e-5
21	Networking skills	Transferrable / 21 st century skills	
22	Interpersonal skills	Transferrable / 21 st century skills	
23	Negotiation skills	Transferrable / 21 st century skills	
24	Active listening skills	Transferrable / 21 st century skills	
25	Resilience	Transferrable / 21 st century skills	
26	Storytelling	Transferrable / 21 st century skills	



Educational	Digital Competences (e-CF)		
material	Level e-3	Level e-4	Level e-5
Core material ¹⁰	4h (min)	5h (min)	6h (min)
Practical	2h	3,5h	5h
assignment			
Total	6h	8,5h	11h
Educational	Digital C	Competences (D	igComp)
material			
Core material	1,5h (min)		
Practical		1,0h	
assignment			
Total	2,5h		
Educational	21st Century c	ompetences (Ti	ransferrable)
material			
Core material		3h (min)	
Practical		2h	
assignment			
Total		5h	

Table 9 – Hours of learning materials for the specialization course

The schedule of the course may include 1-3 modules (competences) per week. Typically it starts with more modules, and decreases later so as to allow time to the learners to conduct the work-based learning. The (learning) hours for each module are presented in the Table 9. It worth to mention that – contrary to the introductory course – the modules in the specialization course include also a practical assignment. This is an exercise, a case study or an essay the tutor places and asks the learners to reply to that and send it to be graded.

The learners are able to communicate with the tutor of each competence through a dedicated communication mechanism online (forum).

In case the dropouts increase, the VET provider may implement a break in the middle of the course, so as to enable learners to catch up.

¹⁰ Including assessment



3 Procedures to validate prior, informal and non formal learning

Beyond the formal classroom settings, people can acquire the most valuable of knowledge, skills and competences in their daily lives, being at work, at home or during leisure. Learning throughout life is a key route to personal development and acknowledging such learning can give greater value to citizen's achievements and their potential contributions to society.

The key questions raised for the Mu.SA project were:

- How can we increase the visibility and value of learning taking place outside formal education and training systems, so that learners with different background can apply for the courses and by evidence receive exemption from one or more modules?
- What are the methods and tools for such a procedure?
- Who is involved?
- How can the social recognition and acceptance be guaranteed?

Such an idea was introduced by the European Council in 2012 with the launch of the COUNCIL RECOMMENDATION of 20 December 2012 on the validation of non-formal and informal learning (2012/C 398/01). The aforementioned Recommendation stressed the value of making prior learning visible for enhancing employability and mobility, as well as increasing motivation for lifelong learning, particularly in the case of the socio-economically disadvantaged or the low-qualified.

Accordingly, the Recommendation on the Validation of Non Formal and Informal Learning (hereof VNFIL), proposed to develop a procedure including the following components, whilst allowing each individual to take advantage of any of these, either separately or in combination, in accordance with his/her needs:

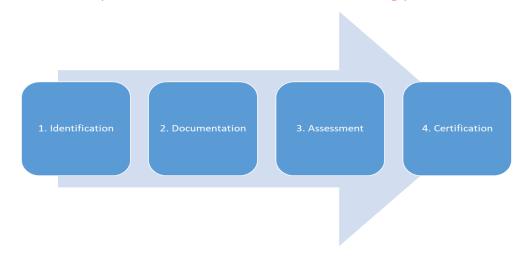


Figure 1 – The components of non-formal and informal learning process



1. **Identification** of knowledge, skills and competence acquired

This stage is crucial as learning outcomes differ from person to person and will have been acquired in various contexts: at home, during work or through voluntary activities. In some countries identification is supported by the use of standardised ICT tools allowing self-assessment. This stage will frequently require active involvement of advisors and counsellors able to enter into a dialogue with the candidate and direct him/her to appropriate options and tools.

2. Documentation

Documentation involves provision of evidence of the learning outcomes acquired. This can be carried out through the 'building' of a portfolio that tends to include a CV and a career history of the individual, with documents and/or work samples that attest to their learning achievements. Validation needs to be open to various evidence types, ranging from written documents to work samples and demonstrations of practice. Objectivity, reliability, credibility and validity define here the qualitative criteria to ensure the acceptance of the results.

3. Assessment

Individual's learning outcomes are compared against specific reference points and/or standards. Oral, written tests, exercises, projects, observation of executing tasks, etc. Assessment methods are based on learning outcomes and refer to the competent professional standard / profile.

4. Certification

Final valuing – of the learning identified, documented and assessed. This can take different forms but is commonly the award of a formal qualification (or part-qualification). Validation reaching the stage of certification requires a summative assessment officially confirming the achievement of learning outcomes against a specified standard.

The 2012 Council recommendation on validation encourages Member States to put in place national arrangements for validation by 2018. These arrangements aim to enable individuals to increase the visibility and value of their knowledge, skills and competences acquired outside formal education and training: at work, at home or in voluntary activities. To this regard CEDEFOP developed the European Guidelines to identify main challenges facing policy makers and practitioners and present possible responses to those challenges. The guidelines are practical, and provide advice for individuals and institutions responsible for initiating, developing, implementing and operating validation arrangements. Their impact relies exclusively on their relevance and ability to add value at national or local level.

The state of play on the adoption and implementation of the 2012 Council Recommendation on the validation of non-formal and informal learning (2012/C 398/01) is different in the three Mu.SA project countries (Italy, Greece, Portugal). Moreover, the Mu.SA VET curricula do not currently exist as "official" occupations in Italy, Greece and Portugal (at least all of them). In this regard, the VET provider should develop a procedure, "as compliant as possible" with the Council Recommendation. Thus, the VET provider should establish a procedure internally



aiming to the identification, documentation, assessment and certification (thereafter mentioned as "Mu.SA VET curricula validation office").

1. **Identification** of knowledge, skills and competence acquired

The Mu.SA project has developed training modules / competences synthesizing the Mu.SA training offer. These modules / competences were built based on learning outcomes. The Mu.SA VET curricula validation office should invite the candidates into dialogue with counselors / advisors, possibly using particular tools, so as to identify which of each Mu.SA VET curricula learning outcomes the candidate already disposes.

2. Documentation

Following the establishment of the previous list, the Mu.SA VET curricula validation office asks the candidate to provide evidence, so as to synthesize his/her portfolio. Almost every evidence should be taken into account, respecting always the national legislation.

3. Assessment

The Mu.SA VET curricula validation office compares the candidates existing learning outcomes with the ones included in the Mu.SA VET curricula using particular assessment methods. In this stage, the candidate becomes eligible to attend only the competences that he/she needs so as to reach the range of the learning outcomes of each Mu.SA VET curricula. No written or oral tests are foreseen so as to complete the assessment.

4. Certification

Learners attain and complete the course and its partial competences and take part in the final certification procedures, e.g. assessment tests, projects, etc.

After that, the learner who completes successfully the final exams gets recognition of the achievement of particular learning outcomes and is in principle able to follow the particular Mu.SA competences and eventually get the same Mu.SA Job Role Profile Certificate with the learners that followed successfully the complete the Mu.SA VET Curricula training offers. The same Certifications are awarded to every learner who has successfully completed the course, regardless of his/her type of enrolling, e.g. full course learner or partial course learner deriving from prior experience.



4 The competences in a glance

4.1 Introductory course

The following tables present in short the competences provided to the learner that would like to follow the Online Community Manager curricula, in the introductory course. The reader may find the detailed presentation of the competences in the appendix. The competences are presented in row, as they were delivered in the MOOC and following the sequence of the curricula.

Competence title	IS and business strategy alignment
Туре	Digital (e-CF)
Description	This Course Module anticipates long term business requirements, influences improvement of organizational process efficiency and effectiveness. It aims to determine the IS model and the enterprise architecture in line with the organization's policy and ensures a secure environment. Makes strategic IS policy decisions for the enterprise, including sourcing strategies. Our goal is to provide leadership for the construction and implementation of long term innovative IS solutions and IS strategic leadership to reach consensus and commitment from the management team of the Museum.

Competence title	Browsing, searching and filtering data, information and digital content
Туре	Digital (DigComp)
Description	This module aims at the development of the critical thinking required to conduct targeted data research and processing in order to acquire the necessary information or findings for museum related subjects. The management and filtering of digital information is crucial as due to the overflow of online data, it is harder than ever to identify, select and analyze accurate, useful and enriching details on every topic or thematic category, to be used in the field. Participants will test their capacity in finding and assessing the information needed. The modules will provide guidance on the matter in the principles of clarity, fact-checking and critical thinking and empowering attendants as internet users. Key areas are: the articulation of information needs, search for data, information and content in digital environments, access and navigation between them and the creation and update of personal search strategies.



Competence title	Managing data, information and digital content
Туре	Digital (DigComp)
Description	This module facilitates attendants to organize, store and retrieve data, information and content in digital environments but also to manage and process them in a structured environment. The attendants should be able to collect, select and analyze information and use data in an optimal manner in the museum sector (i.e spreadsheet, database). Within this context, participants would improve museum's digital preservation, management and exploitation of digital content. Furthermore, they will archive and manage effectively and on time all the digital content. Data, information and digital content requires high-level ICT skills for attendants to be able to manage all the online and offline exhibitions and digital content.

Competence title	Business Plan Development
Туре	Digital (e-CF)
Description	 This module facilitates attendants to address the design and the structure of a business or product plan for museums including the identification of alternative approaches as well as return on investment propositions. The trainee will be able to: consider the possible and applicable sourcing models; present cost benefit analysis and reasoned arguments in support of the selected strategy; ensure compliance with business and technology strategies; communicate and sell business plan to relevant stakeholders and address political, financial and cultural organizational interests.

Competence title	Evaluating data, information and digital content
Туре	Digital (DigComp)
Description	This module facilitates attendants to develop skills in order to analyze, compare and critically evaluate the credibility and reliability of sources of data, information and digital content.



Competence title	Identifying needs and technological responses
Туре	Digital (DigComp)
Description	This module guides museum professionals on how to assess their own needs in terms of resources, tools and competence development, to match those needs with possible solutions, to adapt tools to their personal needs, and to critically evaluate possible solutions and digital tools.

Competence title	Technology trend monitoring
Туре	Digital (e-CF)
Description	Technology can leverage the museum experience to new levels and increase the outreach of the collection and the visitors' experience. This module focus on how the museums can monitor and adapt to the technology trends, in a way to enhance (and not overlap) the major role of the collection and the museum as a whole.

Competence title	Netiquette
Туре	Digital (DigComp)
Description	This module will explain important considerations regarding online communication and addresses the behavioural rules and know-how needed while using digital technologies and interacting in digital environments. By the end of this module the learner will be aware of the importance of how he/she communicates in digital environments and will be able to apply different communication strategies adapted to the specific audience as well as be aware of cultural and generational diversity in digital environments.

Competence title	Leadership and change facilitator
Туре	Transferrable / 21 st century skill
Description	Leadership skills can help us rethink the opportunities offered by digital technology to develop meaningful relationships with new and existing audiences. Why do we talk about leadership in a museum context today? How can museums lead change and innovation in ever-evolving digital society? What kind of leadership style best supports digital transformation in a museum?



Competence title	Innovating
Туре	Digital (e-CF)
Description	This module facilitates attendants to develop skills related to the design and planning of creative solutions for the provision of new and innovative concepts, ideas, products or services for the museum sector. It also helps them to deploy novel and open thinking to envision the exploitation of innovative technological advances to address museums and their audiences' needs or research directions.

Competence title	Innovating and creatively using technology
Туре	Digital (DigComp)
Description	This module facilitates attendants to learn on which are the digital tools and technologies that can use in order to create knowledge and to innovate processes and products. He/she will be able to engage individually and collectively in cognitive processing to understand and resolve conceptual problems and problem situations in digital environments.

Competence title	Creative thinking skills
Туре	Transferrable / 21 st century skill
Description	This module will explore what is creative thinking, and how it can stimulate problem-solving in museum practice in an innovative way. It envisages learners to look and solve problems from different perspectives, thinking outside the box, meet new challenges and seek unusual solutions; use brainstorming, mind mapping, reframing, and envisioning the future.

Competence title	Needs identification
Туре	Digital (e-CF)
Description	This module facilitates attendants to develop skills useful to understand their users and customers for many types of products and services delivered into the Museum. It is focused on understanding the methodologies and techniques to use during the research phase, before designing a product or service for a Museum (physical or digital).



Competence title	Developing digital content
Туре	Digital (DigComp)
Description	This module facilitates attendants to develop skills useful to create and edit digital content in different formats to express concepts, ideas and thoughts through digital means. It also helps attendants in understanding the appropriate formats depending on the content and the museum context.

Competence title	Collaborating through digital technologies
Туре	Digital (DigComp)
Description	The module will introduce learners to technologies and digital tools for collaborative processes and for co-creation and development of resources and knowledge. The module will also describe the human approach towards the collaboration as an action and as a value in order to evaluate risks and common behaviors related to the topic.

Competence title	Forecast development
Туре	Digital (e-CF)
Description	The coming decades will bring massive changes in our society: political, financial, cultural, technological and ecological. Museums can play a vital role in preparing for and responding to these challenges. As trusted conveners, museums can lead their communities in exploring where current trends may take us, identifying preferred futures and helping bring them into being.
	The module provides the resources to support an exploration of the future in your organization and with community partners. It is composed by the following section:
	 Overview of future studies and forecasting the why and what for and how
	Identifying and monitoring changes, tracking the flow of trends, event and emerging issues
	Imagining different futures and testing new assumptions through forecast and scenario building
	 Apply relevant metrics to enable the accurate decision making;
	5. Create and plan a forecast session



Competence title	Team working
Туре	Transferrable / 21 st century skill
Description	This module will present the basics on team working development, focusing on communication skills and team membership and belonging patterns for the museum sector. At the end, learners will be able to recognize the basics of team working dynamics and be aware of the importance of establishing an adequate communication in order to improve collaboration.

Competence title	Relationship management
Туре	Digital (e-CF)
Description	It facilitates attendants to learn on how to establish and maintain positive business relationships between stakeholders (internal or external) by deploying and complying with organizational processes. It also helps them to know how to maintain regular communication with customer / partner / supplier, and address of needs through empathy with their environment and management of supply chain communications. Ensuring that stakeholder needs, concerns or complaints are understood and addressed in accordance with the museum's policy.

Competence title	Protecting personal data and privacy
Туре	Digital (DigComp)
Description	This module facilitates attendants to learn on how to protect personal data and privacy in digital environments. Also, to understand how to use and share personally identifiable information while being able to protect oneself and others from damages. Moreover, the learners will able to apprehend that digital services use a "Privacy policy" to inform the user on how personal data is used. As well as guiding others, he/she can:
	 apply different ways to protect my personal data and privacy in digital environments, and
	 apply different specific ways to share my data while protecting myself and others from dangers.
	 explain privacy policy statements of how personal data is used in digital services.



Competence title	ICT quality management
Туре	Digital (e-CF)
Description	This module supports learners in the implementation of ICT quality policies so as to maintain and enhance service and product provision. It also helps them to plan and define indicators to manage quality with respect to the ICT strategy. Moreover, it facilitate learners to review quality measures and to recommend enhancements in order to influence continuous quality improvement.

Competence title	Communication skills
Туре	Transferrable / 21 st century skill
Description	This module will introduce learners to the complicated skill of communication as an effective and efficient way to convey information to the team, staff and audience. Typically this meaning of the term communication include other soft skills such as listening, nonverbal communication, clarity and concision, friendliness, confidence, empathy, open-mindedness, respect, feedback, and selection of the right medium.

Competence title	Time management
Туре	Transferrable / 21 st century skill
Description	This course module facilitates attendants to develop skills that are going to enable them to create structured time efficient plans, including the establishment of time scales and milestones, ensuring optimization of activities and resources within a given timeframe. Within this context the attendants will be able to define activities, responsibilities and identify critical milestones, reducing implementation costs through time utilization and minimization of time waste, without a reduction in quality. Through these, attendants will be able to deliver on time, on budget and in accordance with the original requirements, while enhancing monitoring skills.



4.2 Specialization course

The following tables present in short the competences provided to the learner that would like to follow the Online Community Manager curricula, in the specialization course. The reader may find the detailed presentation of the competences in the appendix. The competences are presented in row, as they were delivered in the specialization course and following the sequence of the curricula.

Competence title	Product / Service planning
Туре	Digital (e-CF)
Description	This module will introduce learners to understand the functions and the goals of service design in museum contexts, giving them the basic tools to carry out the planning of a project.

Competence title	Identifying digital competences gaps
Туре	Digital (DigComp)
Description	This module facilitates attendants to understand where one's own digital competence needs to be improved or updated. Also, it enables them to support others with their digital competence development. Moreover, it helps learners seek opportunities for self-development and to keep up-to-date with the digital evolution.

Competence title	Management skills
Туре	Transferrable / 21 st century skill
Description	This module will introduce learners to three interrelated management skills: planning, decision-making, and communication. These skills will be considered in the context of a museum digital strategy and analyzed from a global and a more specific point of view, addressing the role of the Digital Collections Curator and the Online Community Manager.



Competence title	Protecting personal data and privacy
Туре	Digital (DigComp)
Description	The module emphasizes how the General Data Protection Regulation (GDPR) as well as other privacy policy frameworks will give citizens more control over their personal data and how museums and cultural organizations will ensure that personal data is managed in full compliance with legislative requirements and regulations. Data collection, storing and processing should enhance security, ensure consistency and make the practices easy for users to understand. Authoritative and advisory bodies have been set up to safeguard that data practices should meet the reasonable expectations of users and to uphold information rights in the public interest.

Competence title	Influence / persuasion skills
Туре	Transferrable / 21 st century skill
Description	Never the term "Influence", or the words derived from it, as "influencer", has been used as it is today, without, however, clearly understanding of what it refers to. Note that the use of influence and persuasion in museums must always respect the characteristics of this institution, calling for constant use in accordance with well-defined ethical principles.

Competence title	Managing digital identity
Туре	Digital (DigComp)
Description	Digital identity can mean many things and can be approached from many perspectives. For instance, it can be related to security and protection issues from the individual or institutional standpoint. In this module we will rather focus on museums digital identity from the perspective of reputation, how to build and maintain it, and in that context how to deal with the data that museums produce in the digital environment.



Competence title	Documentation production
Туре	Digital (e-CF)
Description	This module provides learners with information on how to produce documents describing products, services, components or applications to establish compliance with relevant documentation requirements. It facilitates learners to understand how to select appropriate style and media for presentation materials and create templates for document- management systems. It also describes appropriate ways to document functions and features, validate existing documents and keep them up to date.

Competence title	Mentoring / coaching skills
Туре	Transferrable / 21 st century skill
Description	This module will introduce participants to the concept, techniques and benefits of mentoring and coaching as tools for professional and personal development, with the focus on people working in the arts sector.
	While mentoring is a powerful tool for developing personal qualities and obtaining new skills, coaching is largely understood as a tool for improvement of professional performances in order to achieve addressed goals. Similarities and differences between mentoring and coaching are the subjects explored in this course. In this regard, the scope of this course is to help learners
	understand the benefits of the mentoring or coaching partnership, to identify the key soft skills that can be triggered as well as to be familiarized with the practical application of both concepts in many fields of work.



Competence title	Copyright and licenses
Туре	Digital (DigComp)
Description	The publication of digital content requires a lot of attention and caution. We have to ask ourselves several questions: What kind of rules do I need to know to respect content copyright (e.g. images or other formats) and privacy issues when publishing it? Are there laws for publication for educational, informative purposes? If I want to allow users to use, disclose or modify contents from my website which licenses should I insert? And if as a museum professional I want to release images under a free license, how can I do it? If I collect information from online users, do I have to apply for an authorization? Does my museum have a privacy policy? Every professional must ask these questions when collecting data or sharing digital content on a website, a database, social media or other online platforms. Understanding copyright and licenses is a complex issue but a very important topic in museums. In this module you will learn basic notions that can be useful, including terminology, useful links to learn more and practical exercises.

Competence title	Integrity / Ethical
Туре	Transferrable / 21 st century skill
Description	In a time of many transformations and rapid changes, museum ethics is a very hot topic. Museum professionals not only have to carry out their work in a competent way, but also have to be aware of the ethical implications of their work. In fact, ethics is embedded in most daily activities of every museum professional. This module explores the role of ethics in museums and its relevance today. Examples of current ethical dilemmas will be presented, including ethical challenges that may arise from the digital environment.

Competence title	Programming
Туре	Digital (DigComp)
Description	This module will introduce learners to programming. They will learn the very basis of computer language and the most famous languages for website development.



Competence title	User support
Туре	Digital (e-CF)
Description	The goal of the Customer Support section (User Support) is to understand the knowledge of a range of customer services that help customers make a cost-effective and correct use of a product. Knowledge that includes help with designing, troubleshooting, maintaining, upgrading, and distributing a product will be understood. It will also be understood that customer support is considered as one of the main channels of communication with the company that aims both in customer satisfaction and how to increase or maintain them.

Competence title	Decision making
Туре	Transferrable / 21 st century skill
Description	This module will introduce learners to the knowledge of the decision-making field from a general point of view to a specific perspective.
	Starting with the meaning of the principle terms linked to the topic we will explore the main theories of decision-making.
	Concerning the application of this skill in museums, we will suggest some steps to follow to lead decisions for the better and we will show how data analysis can be useful.

Competence title	Solving technical problems
Туре	Digital (DigComp)
Description	This module will present the basic concepts regarding solving technical problems with a focus on museum and respective audience needs, detailing methods and tools such as the root cause analysis or the problem tree analysis. It will also present potential technical problems with related
	causes, consequences and possible actions.
	At the end, learners will be able to address a problem in a
	systematic way using concepts and tools relevant to the subject.



Competence title	Problem management
Туре	Digital (e-CF)
Description	This module provides learners with information on how to identify and resolve the root cause of incidents. It also describes how to take a proactive approach to avoidance or identification of root cause of ICT problems and deploy a knowledge system based on recurrence of common errors. It discusses incident resolving and escalation, as well as system optimization and component performance.

Competence title	ICT quality strategy development
Туре	Digital (e-CF)
Description	The Module intends to provide competences to the Online Community Manager to be able to:
	a) Define, improve and refine a formal strategy to meet the needs of museum and audience expectations and improve the performance of the organization.
	b) Identify critical processes that influence delivery and performance of online communication applications.
	c) Use standards set for formulate objectives for service management, application and process quality.
	d) Identify the responsibility for quality management of Online communication.

Competence title	Sense of initiative and entrepreneurship
Туре	Transferrable / 21 st century skill
Description	The overall objective of this module is to familiarize learners with the concept and tenets of entrepreneurship, focusing on what it is, why it is relevant for Museum professionals, when it is applied or not and how to do it in practice. Entrepreneurship is interpreted as a transversal competence, necessary for every professional working in a changing and open work environment. Based on the Entrepreneurial Competence Framework learners will know that entrepreneurship goes beyond the narrow understanding of setting up business; they will learn that entrepreneurship supports individuals, not only in their everyday lives at home and in society, but also in the workplace in being aware of the context of their work and being able to seize opportunities, to turn ideas into action and be able to start value-creating initiatives at work.



Competence title	Analyse and synthesize information
Туре	Transferrable / 21 st century skill
Description	The ability to analyse and synthesize information is valuable for museum professionals. It is often related to critical thinking, creative thinking, innovation, managing information, and is driven from the need of solving problems and making informed decisions.
	Analyzing and synthesizing information is embedded in many museum activities. It is an ability that can be developed further by every museum professional in any job profile.
	This module explores the meaning and value of analyzing and synthesizing information as part of critical and creative thinking in the context of a reflexive and informed museum practice. Some guidance and examples will be provided.

Competence title	Digital marketing
Туре	Digital (e-CF)
Description	The Mu.SA research findings indicate that museums have to deal with ever-increasing numbers of online audiences through social media platforms. While some museums exploit this potential, many others are still not aware of the possibilities it offers. The Online Community manager, or also known as Social media manager, is becoming increasingly valuable for museums to thrive in a digital environment.
	This module developed with the contribution of Katie Moffat, Head of Digital, at the Audience Agency UK, will equip an individual with the skills and knowledge to understand the fundamental principles of digital marketing.
	It covers topics such as the scope and principles of digital marketing, how to develop a digital marketing plan and social media plan, consideration of the range of channels available, how to engage online audiences and how to evaluate the impact of digital activity.
	A well as presenting resources on web accessibility to ensure all digital activity is accessible to the widest range of individuals. In this module, experts like Sarah Dominique Orlandi, CreandoCultura will explain how she worked with the National Etruscan Museum in Rome - Villa Giulia in developing their website. Prisca Cuppellini, Head of Communications and Digital at the MAXXI Museum in Rome talking about her role. As well as Rita Tomas Direcção de Comunicação Teatro do Bairro Alto sharing her experience in how to plan for communication and marketing plan.



Competence title	Business change management
Туре	Digital (e-CF)
Description	The aim is to introduce the importance of building strong relationships with stakeholders to ensure sustainability. These relationships require vision and strategy, leadership and team management, consumer behaviour, negotiation, change and financial management, creativity and business innovation, digital skills and entrepreneurship. It will be explored the importance of being able to compete and be closer to stakeholders, not only for economic reasons, but also for social and environmental demands.

Competence title	Networking skills
Туре	Transferrable / 21 st century skill
Description	In our modern society, it has become necessary and indeed urgent for museums to redefine
	their missions, their goals, their functions and their strategies to reflect the expectations of a changing world.
	This module intends to introduce participants to importance for museums to network to reach a wider audience and face easier the digital challenges.
	Personnel development through (international) networking is a necessary approach in sharing the pending problems that museums face in common.

Competence title	Interpersonal skills
Туре	Transferrable / 21 st century skill
Description	This unit will describe the complexity of interpersonal skills definition, and will help to find ways to develop one of the most required competences of the 21st century



Competence title	Negotiation skills
Туре	Transferrable / 21 st century skill
Description	"Negotiation is part of our lives from our early age and throughout our working life. We are continuously negotiating our desires and what we call "reality". Negotiation skills are, therefore, an essential tool of our workplace skillset.
	This module is organized around two units. The first unit explores some of the counterproductive assumptions about the process of negotiation and some of the theory around it. An overview about the purposes of negotiation will also be presented. Guidance on how to prepare a negotiation strategy, and tips and tools on how to become a better negotiator will be also provided. Lea Walter, a clinical psychologist, has collaborated on the preparation of this module. The second unit presents of examples of how museums are
	rethinking their role in society, taking in consideration the negotiation processes and difficult conversations that such approaches entail. That is the case of the Museé de l'Homme, in Paris, and the Tropenmuseum in Amsterdam.

Competence title	Active listening skills
Туре	Transferrable / 21 st century skill
Description	Active listening is an enhanced, active state of listening. Most of the people consider listening as a passive activity. Something that we can do while we are doing something else.
	It requires effort, self-awareness, and practice. It is a powerful tool, because it helps to understand more efficiently the issues that you are tackling and also helps you to communicate better inside of your team, with other departments and with external stakeholders.

Competence title	Resilience
Туре	Transferrable / 21 st century skill
Description	Resilience is one of the most valorised skills in our times. In this course Learners will understand what resilience is and how can museum professionals develop this skill.



Competence title	Storytelling
Туре	Transferrable / 21 st century skill
Description	Museums are about stories. Storytelling (digital or not) capture the attention, appeal to emotions, and encourage imagination and reflection. It also creates knowledge, comprehension and empathy. Finally, but rather central, it helps engagement. Is, therefore, a relevant tool for museums and museum professionals. This module will introduce learners to what is storytelling and its techniques, focusing on the benefits of this approach for engagement in museums and cultural organizations alike as well as cultural heritage valorization. This module will also present several examples of how museums are exploring the potential of sharing (hidden) stories.

4.3 Indicative work-based learning activities

In this section, the reader may find indicative work-based learning activities, than can be used to facilitate the learner to select – in collaboration with the local VET provider and the supervisor from the hosting organization, what to do during his / her work-base learning.

WBL activity	Design and implement an audience development plan in line with the museum's overall strategic communication plan. Conduct research online, identifying the needs of the public.
Hours	100 – 200 hours
Description	Design an online research to identify the users' profile, needs and expectations of the current social media platforms of the museum. Use this information to design an audience development plan alligned with the museum's overall communication strategy. Set the mission, the specific goals (SMART goals), the target audiences and the specific actions of such a plan. Define the criteria to measure the successful implementation of the plan. Involve in the design of the plan from the start the different departments of the museum and keep them regularly informed on the results.

WBL activity	Engage, monitor and manage the public online. Perform and monitor online activities.
Hours	100 – 200 hours



educational programme or open event within the museum. Encourage and facilitate the creation of online communities that starting from their interest e.g. in a specific collection
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WBL activity	Deal effectively with other departments of the organization to produce meaningful content and online experiences.
Hours	100 – 150 hours
Description	Establish a daily communication with the curatorial, education and communication staff of the museum and use their input to create rich and meaningful online content. Provide a complete series of such content for the museum's web site and social media.

WBL activity	Evaluate the effectiveness and efficiency of online activities.
Hours	100 – 150 hours
Description	Design and implement an evaluation survey of online activities. Set quantitative and qualitative evaluation criteria and analyze your findings in order to provide the museum with a report of users' current interests and participation. Include specific suggestions for improvements, according to the museum's mission and goals.



5 Appendix

5.1 Introductory course

5.1.1 Digital competences (e-CF)

Competence title	IS and business strategy alignment
Туре	Digital (e-CF)
Description	This Course Module anticipates long term business requirements, influences improvement of organizational process efficiency and effectiveness. It aims to determine the IS model and the enterprise architecture in line with the organization's policy and ensures a secure environment. Makes strategic IS policy decisions for the enterprise, including sourcing strategies. Our goal is to provide leadership for the construction and implementation of long term innovative IS solutions and IS strategic leadership to reach consensus and commitment from the management team of the Museum.
Knowledge domain	 The main example domains are: business strategy concepts; trends and implications of ICT internal or external developments for museum organizations; the potential and opportunities of relevant business models; the business aims and organizational objectives; the issues and implications of sourcing models; the new emerging technologies (e.g. distributed systems, virtualization, mobility, data sets); architectural frameworks; Security.
Learning outcomes	 Define future developments in business process and technology application Recognize requirements for processes related to ICT services Identify long term visitor / customer needs Illustrate the development of ICT strategy and policy, including ICT security and quality Describe the development of the business strategy Examine feasibility in terms of costs and benefits Demonstrate effects of implementations Assess the impact of new technologies on business Study the business benefits of new technologies and how this can add value and provide competitive advantage Analyze the Museum business architecture Examine the legal & regulatory landscape in order to factor into business requirements



Units	 Understand IS and Business Strategy Designing of a Business Strategy: Key focus points Achieving Growth and Technology: A Museum Perspective
	4. Analyzing the Present and Future of Museum: Structuring an IS and Business Strategy

Competence title	Business Plan Development
Туре	Digital (e-CF)
Description	 This module facilitates attendants to address the design and the structure of a business or product plan for museums including the identification of alternative approaches as well as return on investment propositions. The trainee will be able to: consider the possible and applicable sourcing models; present cost benefit analysis and reasoned arguments in support of the selected strategy; ensure compliance with business and technology strategies; communicate and sell business plan to relevant stakeholders and address political, financial and cultural organizational interests.
Knowledge domain	The trainee learns about: business plans and elements; business models; business Model Canvas; SWOT analysis; PEST analysis; Porter's 5 Forces; elements of the marketing mix (the 4 Ps); competitive analysis; operations and management plans; financial planning and dynamics; managing risk and opportunity assessment techniques; marketing and corporate strategies.
Learning outcomes	 Describe the methodology of doing a SWOT analysis Identify 2 risks in a management plan Present an example of a competitive analysis Recognize the mission, the vision and values of a museum Label 4 museum needs Present the Museum Innovation Model (MIM) Identify the 4 elements of the marketing mix (the 4 Ps) Describe the methodology of doing a PEST analysis Name 5 competitive forces to maximize profitability (Porter's 5 Forces) Estimate a cost analysis Differentiate a business plan from a business model. Indicate the steps of a business plan Describe a marketing strategy



	 Describe the business model canvas Indicate 2 sustainability issues of a museum Recognize the value of 2 marketing communication functions Identify a management plan for a museum Give examples of 2 business models Produce a financial planning and analysis Select an example of a Museum Marketing Plan
Units	 Understanding the Business Management Plan A theoretical context of a business model Marketing strategies A business management plan for Museums

Competence title	Technology trend monitoring
Туре	Digital (e-CF)
Description	Technology can leverage the museum experience to new levels and increase the outreach of the collection and the visitors' experience. This module focus on how the museums can monitor and adapt to the technology trends, in a way to enhance (and not overlap) the major role of the collection and the museum as a whole.
Knowledge domain	 Existing Digital Media Technologies and future trends; Games and Gamification solutions in museums; Virtual, Augmented and mixed solutions in museums; Usability and accessibility guidelines
Learning outcomes	 Identify at least 2 of the main milestones in the history of ICT in museums. Identify at least 2 of the current technologies that will shape the future in museums. Explore a SW tool to prototype a digital storytelling example. Examine 3 examples of how games provide distinct experiences in museums and enhance the visitor experience, by exploring case studies. List 3 advantages of how gamification can increase the visitors' engagement. Describe the concept of interactive storytelling and how it expands linear storytelling, by exploring case studies. Examine examples of how the reality virtuality continuum can improve the museum communication. Identify 2 different types of examples Virtual Reality applications in museums Identify 2 different types examples of Mixed Reality applications in museums Identify one set of principles of usability and how it



	 promotes user adoption of technology. Identify the main guidelines for accessibility in museums places and the web, with a focus on inclusive museums From analysing 2 case studies, explain how games and gamification are used distinctively. For each, complete the following fields: target, synopsis, objectives, advantages, constrains. From analysing case studies, understand how AR/VR or mixed reality solutions are used distinctively inside-out in museums. Discuss how usability can affect the user experience, from analyzing a case study. When confronted with a specific problem in a museum, specify a solution based on interactive storytelling. Make a case-study by prototyping a solution. From analysing examples of using VR/AR or mixed reality solutions in museums understand the artist`s world. When confronted with specific problems in museums and websites, identify the principles that can enhance the accessibility
Units	 History & Trends of ICT in museums Interactive storytelling: From Games to Gamification The reality-virtuality continuum Usability & Accessibility

Competence title	Innovating
Туре	Digital (e-CF)
Description	This module facilitates attendants to develop skills related to the design and planning of creative solutions for the provision of new and innovative concepts, ideas, products or services for the museum sector. It also helps them to deploy novel and open thinking to envision the exploitation of innovative technological advances to address museums and their audiences' needs or research directions.
Knowledge domain	 Innovation theory Innovation models Adopting innovations in museums Designing innovations for museums Open thinking Open innovation Crowdsourcing Linked open data
Learning outcomes	 Define innovation and the areas it occurs Identify the four different types of innovation Identify the five different types of innovators Identify the steps of the innovation-decision process Describe the Museum Innovation Model



	 Identify the steps of design thinking process for innovations in museums Identify the characteristics of open thinking Define Open Thinking for museum innovation Identify how crowdsourcing can be used from museums Identify Linked Open Data for museum resources Classify innovations implemented in museums according to their type
Units	 Introduction to Innovation in Museums Innovation Design and Open Thinking

Competence title	Needs identification
Туре	Digital (e-CF)
Description	This module facilitates attendants to develop skills useful to understand their users and customers for many types of products and services delivered into the Museum. It is focused on understanding the methodologies and techniques to use during the research phase, before designing a product or service for a Museum (physical or digital).
Knowledge domain	 Qualitative research methodologies and techniques Research techniques and fundamental outputs for the design phase User-centered based type of process
Learning outcomes	 Define at least 3 research techniques Outline at least 3 scenario characteristics Indicate how to manage an interview Identify the aim of qualitative research within a Museum Explain why personas are important Choose the data gathering techniques depending on prefixed requirements Interpret data techniques
Units	 Qualitative research Personas and scenario within the Museum From research to design



Competence title	Forecast development
Туре	Digital (e-CF)
Description	The coming decades will bring massive changes in our society: political, financial, cultural, technological and ecological. Museums can play a vital role in preparing for and responding to these challenges. As trusted conveners, museums can lead their communities in exploring where current trends may take us, identifying preferred futures and helping bring them into being. The module provides the resources to support an exploration of the future in your organization and with community partners. It is composed by the following section:
	 Overview of future studies and forecasting the why and what for and how It is the studies of the stu
	Identifying and monitoring changes, tracking the flow of trends, event and emerging issues
	Imagining different futures and testing new assumptions through forecast and scenario building
	 Apply relevant metrics to enable the accurate decision making;
	5. Create and plan a forecast session
Knowledge domain	Knowledge domains of the module are:Forecast Development
Learning outcomes	 Identify the difference between prediction and foresight Identify at least one technique used to perform qualitative forecasting analysis with museum staff on digital opportunities Identify at least one technique used to perform quantitative forecasting analysis with museum staff on digital opportunities List the steps and scope in the scanning process Identify at least one new trend Identify at least one method used to assess staff capacity for welcoming new digital tools Identify at least one technique used to understand audience needs and behaviours Identify the difference between Digital communication and digital transformation Develop at least two scenarios, intersecting new and existing trends and potentially disruptive events Create a stakeholders' list Collect at least two techniques used to assess user/technologies interaction



	 Plan one forecasting session Plan at least two warm up exercises Choose one evaluation tool used to monitor change
Units	 Future studies and forecasting Scanning for change Scenario building Metrics for decision making Forecast session

Competence title	Relationship management
Туре	Digital (e-CF)
Description	It facilitates attendants to learn on how to establish and maintain positive business relationships between stakeholders (internal or external) by deploying and complying with organizational processes. It also helps them to know how to maintain regular communication with customer / partner / supplier, and address of needs through empathy with their environment and management of supply chain communications. Ensuring that stakeholder needs, concerns or complaints are understood and addressed in accordance with the museum's policy.
Knowledge domain	 Leadership and management; Business relationship management (BRM); Communication chains; Customer Relationship Management (CRM)
Learning outcomes	 Describe relationship management and its two main components in the business domain Identify six interpersonal skills List ten relationship management skills to enhance a business Identify six fundamental competencies for a successful business relationship management Identify the four types of customer relationship management Discuss four objectives of customer relationship management Give three examples of customer relationship management List seven steps of a museum's complaints handling process Explain the four core disciplines of business relationship management Describe the five tests of good customer relationship management Sketch the business relationship management framework using the "House of BRM" approach



Units	 Introduction in relationship management Business relationship management Customer relationship management Developing customer relationship management strategy CRM solutions in museums
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Competence title	ICT quality management
Туре	Digital (e-CF)
Description	This module supports learners in the implementation of ICT quality policies so as to maintain and enhance service and product provision. It also helps them to plan and define indicators to manage quality with respect to the ICT strategy. Moreover, it facilitate learners to review quality measures and to recommend enhancements in order to influence continuous quality improvement.
Knowledge domain	 Methods, tools and procedures that are applied within the organisation and where they should be applied. The ICT Quality Management Regulations and standards in ICT quality management
Learning outcomes	 Identify the benefits of quality improvement Define a quality management system Identify why IT projects fail Identify the quality management principles Define actions for organisation to improve their performance applying the principles Identify the key benefits of ISO 9001:2015 standard Identify the key areas of a Quality Management System based on the ISO 9001:2015 standard Define the Capability Maturity Model Integration Identify the critical elements of the ICT Quality Management implementation Identify the critical aspects of ensuring ICT Quality Identify the cornerstones of ICT Quality Auditing
Units	 Quality Management Systems Quality Standards Implementing and measuring ICT Quality



5.1.2 Digital competences (DigComp)

Competence title	Browsing, searching and filtering data, information and digital content
Туре	Digital (DigComp)
Description	This module aims at the development of the critical thinking required to conduct targeted data research and processing in order to acquire the necessary information or findings for museum related subjects. The management and filtering of digital information is crucial as due to the overflow of online data, it is harder than ever to identify, select and analyze accurate, useful and enriching details on every topic or thematic category, to be used in the field. Participants will test their capacity in finding and assessing the information needed. The modules will provide guidance on the matter in the principles of clarity, fact-checking and critical thinking and empowering attendants as internet users. Key areas are: the articulation of information needs, search for data, information and content in digital environments, access and navigation between them and the creation and update of personal search strategies.
Knowledge domain	 Data browsing, filtering, management mechanisms, methodologies and software usage; Data use optimization, references and planning for superior museum sector services; Use of digital content in research, reporting and training; Information synthesis and good-practices on online data mining in museum-related studies Browsing tips, traps and unexplored opportunities for potential growth; Fake/unreliable information identification & fact-checking for events, galleries etc; Efficient browsing and researching, using online tools accurately and efficiently;
Learning outcomes	 Describe the value of information and data analytics in the digital era Identify at least two (2) good practices on the use of digital content in Museums Define strategies and goals on data browsing research and information analysis Convert knowledge into analytical thinking in order to select accurate data in the age of information Identify efficient use of internet tools for superior research collection methods Develop a museum policy on data usage and extraction (set rules and goals compatible with targets and



	 legislation) Prepare a case study report on museum rethinking using information retrieved online Apply a copyright and GDPR compliant policy on information usage and data collection Develop digital content using resources from the public domain and free stock material Identify capacity-building on open source applications and tools for digital content and information management and analysis
Units	 Understanding the power and importance of data and digital content Modern Methodologies on data processing and online research

Competence title	Managing data, information and digital content
Туре	Digital (DigComp)
Description	This module facilitates attendants to organize, store and retrieve data, information and content in digital environments but also to manage and process them in a structured environment. The attendants should be able to collect, select and analyze information and use data in an optimal manner in the museum sector (i.e spreadsheet, database). Within this context, participants would improve museum's digital preservation, management and exploitation of digital content. Furthermore, they will archive and manage effectively and on time all the digital content. Data, information and digital content requires high-level ICT skills for attendants to be able to manage all the online and offline exhibitions and digital content.
Knowledge domain	 Distinguish the definitions and understand key terminology; Database management system; Metadata management; Data security; Relevant business software and applications; Digital content management systems; Digital solutions and changes on business management - Digitization of collection and content;
Learning outcomes	 Define data, information, digital content, metadata Examine the added value of Software Examine the use of Software Applications regarding data, information and digital content management Define the web threats and the necessity to face them Identify the web threats Estimate the risk of data loss or corruption Employ effective methods of data archive



	 Explore effective methods of managing information Use effective methods of retrieving information Utilize effective methods of preservation of digital content Analyze web threats Apply effective management of data, information and digital content of museum sector
Units	 Define and articulate the concept: what is data, information, digital content, metadata How to manage information flow and digital content

Competence title	Evaluating data, information and digital content
Туре	Digital (DigComp)
Description	This module facilitates attendants to develop skills in order to analyze, compare and critically evaluate the credibility and reliability of sources of data, information and digital content.
Knowledge domain	 Data and information: definitions, types and meaning; From data to wisdom: the DIKW hierarchy; Data accuracy and data quality; Analyzing and critically evaluating data, Information resources and digital content; Information behavior; Information representation and information retrieval; Traffic, queries and use of data in cultural institutions; Search Engine Optimization (SEO) strategy.
Learning outcomes	 Identify two technologies for organizing information. List the best method for digital content assessment. Present four steps for evaluating information. Name four criteria when evaluating internet sources. Indicate the best strategy in searching data resources. Select two principles on data resources Management. Describe two digital tools for measuring a museum's popularity. Identify three trends in analytics. Indicate the four key areas of SEO that a site owner need to take into consideration. Prepare at least five questions in evaluating the credibility of an information source. Find one metrics' report of a well – known museum.
Units	 Introduction to evaluating data, information and digital content Museum & Metrics



Competence title	Identifying needs and technological responses
Туре	Digital (DigComp)
Description	This module guides museum professionals on how to assess their own needs in terms of resources, tools and competence development, to match those needs with possible solutions, to adapt tools to their personal needs, and to critically evaluate possible solutions and digital tools.
Knowledge domain	 The knowledge areas covered are the following: Needs assessment The emerging museum professional roles The museums of the future and the needs they create to professionals The emerging technologies for museum professionals
Learning outcomes	 Identify the key steps of a needs assessment procedure. List at least two emerging technologies per main museum function. Define the main technology characteristics required to cover common museum professionals' needs. Select a needs assessment model to identify the museum professional needs. Recognize technologies embedding particular characteristics covering museum professionals' needs. Choose the appropriate technologies to solve museum professionals' needs.
Units	 Needs assessment for museum professionals Selecting technologies covering the needs of museum professionals



Competence title	Netiquette
Туре	Digital (DigComp)
Description	This module will explain important considerations regarding online communication and addresses the behavioural rules and know-how needed while using digital technologies and interacting in digital environments. By the end of this module the learner will be aware of the importance of how he/she communicates in digital environments and will be able to apply different communication strategies adapted to the specific audience as well as be aware of cultural and generational diversity in digital environments.
Knowledge domain	Communication; Social and behavioural science.
Learning outcomes	 Describe what is netiquette. Recall the importance of rules when interacting on the Internet. Identify at least five rules for communicating on the Internet. Describe how the cultural and generational diversity implicate the online communication. Illustrate at least three examples of different environments and audiences. Illustrate at least three cases of poor online behaviour. Choose an effective communication strategy considering the context and regarding the audience and the digital environment. Distinguish between good and poor netiquette practices.
Units	 Introduction The core rules of Netiquette Examples and best practices



Competence title	Innovating and creatively using technology
Туре	Digital (DigComp)
Description	This module facilitates attendants to learn on which are the digital tools and technologies that can use in order to create knowledge and to innovate processes and products. He/she will be able to engage individually and collectively in cognitive processing to understand and resolve conceptual problems and problem situations in digital environments.
Knowledge domain	 Existing and emerging technologies and tools for cultural organizations; Creativity and creative practices; Cultural challenges in cross – disciplinary collaborations.
Learning outcomes	 Identify two Information technology and creative practices (ITCP). Outline the meaning of Cultural Informatics. Present two examples of creative digital media. Indicate three challenges in cross –disciplinary collaborations. Select five ITCP Technologies used in museums. Describe two different types of virtual museums. Choose two examples of digital communication technology in culture. Find three mobile applications designed for museums.
Units	 Creatively using digital technologies: an Introduction Creative tools and digital Museums

Competence title	Developing digital content
Туре	Digital (DigComp)
Description	This module facilitates attendants to develop skills useful to create and edit digital content in different formats to express concepts, ideas and thoughts through digital means. It also helps attendants in understanding the appropriate formats depending on the content and the museum context.
Knowledge domain	Digital content development
Learning outcomes	 Recognize at least 3 sections of a webpage Describe at least 2 ways of communications through social media channels Associate the information from a list in at least 3 web pages Schedule the actions to take to create a video Evaluate at least 3 different type of visuals
Units	 Formats and communication channels for museums Design and develop multimedia content for social media communication



Competence title	Collaborating through digital technologies
Туре	Digital (DigComp)
Description	The module will introduce learners to technologies and digital tools for collaborative processes and for co-creation and development of resources and knowledge. The module will also describe the human approach towards the collaboration as an action and as a value in order to evaluate risks and common behaviors related to the topic.
Knowledge domain	 Cognitive and emotional considerations about human collaboration; Digital tools for sharing, co-creating and managing resources and projects.
Learning outcomes	 Outline at least 3 digital tools for collaborating Identify at least 2 typical human behavior while collaborating within a team Indicate at least 1 technique to promote collaboration within a museum Choose at least 2 appropriate features depending on the prefixed digital need
Units	 How to collaborate within a Museum Digital tools to collaborate within a team

Competence title	Protecting personal data and privacy
Туре	Digital (DigComp)
Description	This module facilitates attendants to learn on how to protect personal data and privacy in digital environments. Also, to understand how to use and share personally identifiable information while being able to protect oneself and others from damages. Moreover, the learners will able to apprehend that digital services use a "Privacy policy" to inform the user on how personal data is used.
	As well as guiding others, he/she can:
	 apply different ways to protect my personal data and privacy in digital environments, and
	 apply different specific ways to share my data while protecting myself and others from dangers.
	 explain privacy policy statements of how personal data is used in digital services.
Knowledge domain	Computer science
Learning outcomes	 Recognize the four different types of stakeholders in data protection Identify the seven data protection principles according



	 to GDPR Describe the four data security domains Describe the four data protection functional components Recognize the eight rights of data subjects according to GDPR Outline five fundamental steps of a generic data protection strategy Explain the main distinctions of data privacy and data protection Apply basic measures to harmonize their organization with the GDPR requirements Choose appropriate actions to comply with data protection regulations in specific occasions
Units	 Data privacy and protection fundamentals Museums and data protection



5.1.3 Transferrable competences / 21st century skills

Competence title	Leadership and change facilitator
Туре	Transferrable / 21 st century skill
Description	Leadership skills can help us rethink the opportunities offered by digital technology to develop meaningful relationships with new and existing audiences. Why do we talk about leadership in a museum context today? How can museums lead change and innovation in ever-evolving digital society? What kind of leadership style best supports digital transformation in a museum?
	It is difficult to answer these questions but recent research suggests a more participative leadership approach best supports digital transformation in a museum. Yet, no one leadership style will fit every museum.
	The literature on leadership is rich and varied; the notions of leadership (and therefore the models in use) have changed over time especially in business literature. What leadership is taken to be is affected by what is happening in society, including social, technological, economic and political change. Without any claim to completeness, this module should be seen as an introduction to the concept. It surveys different resources concerning leadership, in particular, those linked to the museum sector and digital transformation.
	Given our premises, we restricted the field and selected what we found to be relevant to the outcomes of the <u>Mu.SA</u> research.
	There is no one-size-fits-all leadership model. Our aim with this module is to encourage you to think about the power of individual leadership and its relationship to organisational strength. We will also introduce Daniel Goleman's theories of emotional intelligence , which are relevant to some elements of leadership; those linked to a person's self awareness, how he/she relates to and understands others, how he/she manages themselves and manages relationships with others.
	This module contains 3 units. Unit 1 Leadership theories for museums explores recent leadership theories that best connect to the Mu.SA research findings. Unit 2 Core skills for leadership and management addresses the difference between leadership and management. Unit 3 Storytelling for cultural leadership introduces storytelling as an important skill for leaders.
	How do we define leadership in this module?
	 Leadership is a skill that can be developed, it works anywhere in the building. But that doesn't mean everyone has the tools to be a leader. (Ackerson, Baldwin, 2014)
	 Leadership is a behaviour that does not depend on the



position a person holds within an organisation.
 Leadership is about creating the context for others to be brilliant (Wright, 2018).
 Leadership is a means to an end rather than the end itself. Two essential dimensions of cultural leadership are orientation to the future and its relationship to people. (Price, 2017).
As the term 'change facilitation' also suggests, a topic linked to leadership is organisational change . By and large, by organisational change we mean the process by which any organisation changes its operational methods. As we will see, leadership skills are important in facilitating and leading organisational change when we talk about digital transformation , since, as Peacock argues, leadership skills can help to drive, seize and enable that change, by becoming not passive recipients but active protagonists by stimulating the flow of conversation.
In that sense, leadership is about leading, embracing change, questioning our role and purpose in society as museum professionals, why we exist, why we do what we do . This is especially important for publicly funded museums.
"There is no one organizational structure, business model, strategic blueprint, or leadership style that will fit every museum. The imperative is to define the museum – and the museum's value – as a set of evolving and meaningful relationships with its audiences, authorizers, and publics." (Semmel, 2012:267)
 Emerging leadership theories (in line with the Mu.SA research findings) Leadership vs Management in cultural organisations and museums Storytelling methodologies for leadership skills
 Identify the core components of the emotional intelligence model Identify at least one case study in which effective, inclusive leadership initiated a digital transformation plan Identify the main skills, values and competencies for leadership Identify the main difference between management and leadership Identify at least 3 characteristics of leadership Identify at least 3 characteristics of storytelling as relating to leadership Identify at least 3 skills that storytelling can help you to build Identify at least one storytelling technique for team building



	 Choose at least one storytelling exercise to develop leadership skills Formulate appropriate questions
Units	 Leadership theories for museums Core skills for leadership and management Storytelling for cultural leadership

Competence title	Creative thinking skills
Туре	Transferrable / 21 st century skill
Description	This module will explore what is creative thinking, and how it can stimulate problem-solving in museum practice in an innovative way. It envisages learners to look and solve problems from different perspectives, thinking outside the box, meet new challenges and seek unusual solutions; use brainstorming, mind mapping, reframing, and envisioning the future.
Knowledge domain	Creative Thinking
Learning outcomes	 Identify at least three attributes of a creative thinker Identify at least three facts that contradict popular perceptions of how creativity works Indicate at least three strategies that stimulate creative thinking Indicate two daily work situations creative thinking is a useful (or valuable) skill Identify the most important outcome of creative thinking skills in museum work Infer two of the most popular perception that limitate creative thinking
Units	 What is creative thinking? Creative thinking misunderstandings versus facts Creative thinking matters for museum workforce



Competence title	Team working
Туре	Transferrable / 21 st century skill
Description	This module will present the basics on team working development, focusing on communication skills and team membership and belonging patterns for the museum sector.
	At the end, learners will be able to recognize the basics of team working dynamics and be aware of the importance of establishing an adequate communication in order to improve collaboration.
Knowledge domain	Personal development; Communication; Organizational behaviour.
Learning outcomes	 Identify the main characteristics of a working team. Identify the key functional aspects of effective communication. Identify at least three norms of a working team. Identify the main characteristics of a working team. Identify the different team roles. Choose adequate communication skills in order to promote teamwork and collaboration. Articulate different team rules and roles and the significance of these differences for team working functioning.
Units	 Basics on team working Team working functioning



Competence title	Communication skills
Туре	Transferrable / 21 st century skill
Description	This module will introduce learners to the complicated skill of communication as an effective and efficient way to convey information to the team, staff and audience. Typically this meaning of the term communication include other soft skills such as listening, nonverbal communication, clarity and concision, friendliness, confidence, empathy, open-mindedness, respect, feedback, and selection of the right medium.
Knowledge domain	 Information delivery; Nonverbal communication; Team Communication.
Learning outcomes	 Define five key elements of communication Indicate two techniques to manage a conversation Identify at least 3 elements of nonverbal communication Identify at least 3 positive attitudes in a conversation Interpret two body language signs Interpret two feelings from a team conversation
Units	 Communication between humans Non-verbal communication Team communication



Competence title	Time management
Туре	Transferrable / 21 st century skill
Description	This course module facilitates attendants to develop skills that are going to enable them to create structured time efficient plans, including the establishment of time scales and milestones, ensuring optimization of activities and resources within a given timeframe. Within this context the attendants will be able to define activities, responsibilities and identify critical milestones, reducing implementation costs through time utilization and minimization of time waste, without a reduction in quality. Through these, attendants will be able to deliver on time, on budget and in accordance with the original requirements, while enhancing monitoring skills.
Knowledge domain	 The main example domains are the following: Agile techniques for the development of software and other projects for museum and cultural organizations Structured Project Management Methodologies for museum and cultural organizations Time management optimization methods (e.g. lean management) for museum and cultural organizations New emerging technologies in project management in specific time fragmentation techniques for museum and cultural organizations Project fragmentation methodology, including approaches to define project steps and tools to set up action plans for museum and cultural organizations Application of timeframes in SLAs in projects for museum and cultural organizations
Learning outcomes	 Understand time management in the digital era Identify at least two (2) different time management Software applications Define time scheduling and understand its different dimensions Distinguish between cost and non-cost related time fractions in project implementation Describe the nature of Milestones and time dependencies and typologies in your own words Prepare a list of Tasks by time and priority Prepare of a WBS Create an automated Timesheet
Units	 Understanding time Modern Time Management Techniques Task Scheduling Techniques Time Management Applications



5.2 Specialization course

5.2.1 Digital competences (e-CF)

Competence title	Product / Service planning
Туре	Digital (e-CF)
Description	This module will introduce learners to understand the functions and the goals of service design in museum contexts, giving them the basic tools to carry out the planning of a project.
Knowledge domain	Project ManagementService Design
Learning outcomes	 Define the fundamental elements of Service Design Define the fundamental elements of Project Management Understand the lifecycle of a service/product Understand the role of Stakeholders in Project Management Apply a Project Plan Apply a Network Planning Apply a Project Execution Create a Network Planning
Units	 Service design and project management Project management phases

Competence title	Documentation production
Туре	Digital (e-CF)
Description	This module provides learners with information on how to produce documents describing products, services, components or applications to establish compliance with relevant documentation requirements. It facilitates learners to understand how to select appropriate style and media for presentation materials and create templates for document- management systems. It also describes appropriate ways to document functions and features, validate existing documents and keep them up to date.
Knowledge domain	 Information science Document production and maintenance Document management and control Document management systems Museum documentation
Learning outcomes	 Outline the two major achievements of a good documentation Describe four skills of a documentation specialist



	 Choose appropriate documentation components to address specific needs Apply two writing style guidelines for good documentation Identify three types of document quality standards Recognize the two main documentation types Explain what each of the document production phases performs Define process documentation Describe the four process documentation types Distinguish between user and system documentation Describe the purpose of a product requirements document Describe the three main processes when documenting heritage collections Identify two broad information categories to describe an object of a heritage collection Explain the two things documentation in museums focuses on
Units	 Introduction to documentation Document quality and production Process and product documentation Museum documentation

Competence title	User support						
Туре	Digital (e-CF)						
Description	The goal of the Customer Support section (User Support) is to understand the knowledge of a range of customer services that help customers make a cost-effective and correct use of a product. Knowledge that includes help with designing, troubleshooting, maintaining, upgrading, and distributing a product will be understood. It will also be understood that customer support is considered as one of the main channels of communication with the company that aims both in customer satisfaction and how to increase or maintain them.						
Knowledge domain	 User needs and services. Service improvement User Support services to museums. Monitoring and continuous development of public support 						
Learning outcomes	 Understand User Support. Recognize the need to apply it to improve services. Recognize its application for museum spaces. Separate needs for better utilization. Describe user needs. Determine users' needs for creating a strategy. 						



	 Analyze User Support level based on the needs of the organization and the client.
	 Create a User Support model for the museum spaces needs Evaluate corresponding User Support models
Units	 Introduction to User Support Customer Psycho synthesis in User Support Analysis of User Support Strategies Analysis in User Support

Competence title	Problem management						
Туре	Digital (e-CF)						
Description	This module provides learners with information on how to identify and resolve the root cause of incidents. It also describes how to take a proactive approach to avoidance or identification of root cause of ICT problems and deploy a knowledge system based on recurrence of common errors. It discusses incident resolving and escalation, as well as system optimization and component performance.						
Knowledge domain	IT Service managementService Operation						
Learning outcomes	 Recall the definitions of the key concepts of IT service management Name the service lifecycle stages Identify the types of problem management Outline the main types of data a typical problem record includes Identify the basic factors problem prioritization is based on Explain what problem management means Distinguish problem management from incident management Recognize the outcomes of problem management Describe the problem management phases Indicate where workarounds are documented Explain the main target of root cause analysis Perform problem analysis using the Kepner-Tregoe method Choose the most appropriate problem analysis technique in particular circumstances 						
Units	 IT service management Incident and problem management The problem management process flow Problem analysis 						



Competence title	ICT quality strategy development						
Туре	Digital (e-CF)						
Description	 The Module intends to provide competences to the Online Community Manager to be able to: a) Define, improve and refine a formal strategy to meet the needs of museum and audience expectations and improve the performance of the organization. b) Identify critical processes that influence delivery and performance of online communication applications. c) Use standards set for formulate objectives for service management, application and process quality. d) Identify the responsibility for quality management of Online communication. 						
Knowledge domain	Quality Management						
Learning outcomes	 Describe principles of ICT quality management. Interpreting the performance of online communication applications. Implementing indicators set for formulate objectives for service management, application and process quality in online communication. Assessing the performance of online communication applications. Structuring the quality management of online communication. 						
Units	 Principles of Quality Management Strategy Improvement 						

Competence title	Digital marketing			
Туре	Digital (e-CF)			
Description	The Mu.SA research findings indicate that museums have to deal with ever-increasing numbers of online audiences through social media platforms. While some museums exploit this potential, many others are still not aware of the possibilities it offers. The Online Community manager, or also known as Social media manager, is becoming increasingly valuable for museums to thrive in a digital environment.			
	This module developed with the contribution of Katie Moffat, Head of Digital, at the Audience Agency UK, will equip an individual with the skills and knowledge to understand the fundamental principles of digital marketing.			
	It covers topics such as the scope and principles of digital marketing, how to develop a digital marketing plan and social media plan, consideration of the range of channels available, how to engage online audiences and how to evaluate the impact of digital activity.			
	A well as presenting resources on web accessibility to ensure all			



	digital activity is accessible to the widest range of individuals. In this module, experts like Sarah Dominique Orlandi, CreandoCultura will explain how she worked with the National Etruscan Museum in Rome - Villa Giulia in developing their website. Prisca Cuppellini, Head of Communications and Digital at the MAXXI Museum in Rome talking about her role. As well as Rita Tomas Direcção de Comunicação Teatro do Bairro Alto sharing her experience in how to plan for communication and marketing plan.						
Knowledge domain	 The scope of digital marketing and the opportunities afforded by digital channels. How to engage online audiences and grow your community How to evaluate the impact of digital marketing activities 						
Learning outcomes	 To clarify the scope of digital marketing and the elements contained within a digital marketing plan To develop an online community To select relevant content to post online To choose at least 2 different social platforms to use for different goals To select at least 2 appropriate tools according the adopted channels To create a digital marketing strategy including setting Key Performance Indicators (KPIs) To develop 3 different KPIs To measure the success of digital activity including social media activity 						
Units	 Introduction to Digital Marketing for the Online Community Manager within a Museum setting Social Media Management for Museums including Community Management Monitor and evaluate the effectiveness of online activity 						



Competence title	Business change management					
Туре	Digital (e-CF)					
Description	The aim is to introduce the importance of building strong relationships with stakeholders to ensure sustainability. These relationships require vision and strategy, leadership and team management, consumer behaviour, negotiation, change and financial management, creativity and business innovation, digital skills and entrepreneurship. It will be explored the importance of being able to compete and be closer to stakeholders, not only for economic reasons, but also for social and environmental demands.					
Knowledge domain	Management					
Learning outcomes	 Identify at least three strategic options Identify at least three customer's segmentation Identify at least three museum positioning Identify at least three trends of branding of Visitors destinations Identify the use of relationship marketing on museum Identify the experience marketing on museum Identify the marketing mix on museum Identify the branding and brand equity on museum Classify the needs of museum strategic marketing. Construct an audience development strategy. Choose audience and visitors according to segmentation and positioning Choose best options to ensure good experiences and authenticity to visitors Plan long-term strategic relations with all the museum stakeholders Design innovative museum marketing mix campaigns Design interactive and innovative solutions that provide meaningful experiences for all types of museum audiences. 					
Units	 Strategic Management Museum Marketing Strategies Leadership and Team Management Innovation and migration to digital Digital Technology 					



Competence title	Identifying digital competences gaps						
Туре	Digital (DigComp)						
Description	This module facilitates attendants to understand where one's own digital competence needs to be improved or updated. Also, it enables them to support others with their digital competence development. Moreover, it helps learners seek opportunities for self-development and to keep up-to-date with the digital evolution.						
Knowledge domain	Digital competence						
Learning outcomes	 List the five areas of digital competence according to the DigComp Name the two components of e-learning Describe three ways that e-learning is delivered Recognize three benefits of e-learning Describe what digital competence stands for Demonstrate digital competence gaps through online tools Choose appropriate e-learning solutions for self-development 						
Units	 Identifying digital competence gap e-learning 						

5.2.2 Digital Competences (DigComp)

Competence title	Protecting personal data and privacy						
Туре	Digital (DigComp)						
Description	The module emphasizes how the General Data Protection Regulation (GDPR) as well as other privacy policy frameworks will give citizens more control over their personal data and how museums and cultural organizations will ensure that personal data is managed in full compliance with legislative requirements and regulations. Data collection, storing and processing should enhance security, ensure consistency and make the practices easy for users to understand. Authoritative and advisory bodies have been set up to safeguard that data practices should meet the reasonable expectations of users and to uphold information rights in the public interest.						
Knowledge domain	 Data Protection Data Security Information auditing Personal Data 						
Learning outcomes	 Understand privacy policies and data protection regulation Identify principles, rights and obligations in reference 						



	with a cultural organization approach to privacy issues
	 with a cultural organization approach to privacy issues and processing personal data Define the appropriate technical and organisational measures to meet the requirements of accountability and to demonstrate the organization compliance with GDPR Distinguish between exercising overall control of the purpose and means of the data processing and making technical decisions about data processing and administration Describe the role and responsibilities of data controllers and processors in relation to the personal data the organization is holding Create a set of indicators as to whether you are a controller, a processor or a joint controller in relation to the personal data the organization to information collected about visitors Undertake information audit on what data (and the types of personal data) the organization holds. Classify GDPR obligations to be applied to the
	 Organization in relation to personal data Decide when a Data Protection Impact Assessment (DPIA) is required.
Units	 An introduction to the regulatory landscape of data privacy Compliance Framework for Cultural Organisations Performing an internal audit process

Competence title	Managing digital identity					
Туре	Digital (DigComp)					
Description	Digital identity can mean many things and can be approached from many perspectives. For instance, it can be related to security and protection issues from the individual or institutional standpoint. In this module we will rather focus on museums digital identity from the perspective of reputation, how to build and maintain it, and in that context how to deal with the data that museums produce in the digital environment.					
Knowledge domain	 Museums digital identity Communication Reputation Digital strategy 					
Learning outcomes	 Indicate what is digital reputation Indicate at least two steps that can hep build and maintain your museum digital reputation Identify the most important outcome of building and maintaining your museum digital reputation 					



	Analyse TripAdvisor reviews about a museum						
Units	1.	Building reputation		maintaining	your	museum	digital

Competence title	Copyright and licenses
Туре	Digital (DigComp)
Description	The publication of digital content requires a lot of attention and caution. We have to ask ourselves several questions: What kind of rules do I need to know to respect content copyright (e.g. images or other formats) and privacy issues when publishing it? Are there laws for publication for educational, informative purposes? If I want to allow users to use, disclose or modify contents from my website which licenses should I insert? And if as a museum professional I want to release images under a free license, how can I do it? If I collect information from online users, do I have to apply for an authorization? Does my museum have a privacy policy? Every professional must ask these questions when collecting data or sharing digital content on a website, a database, social media or other online platforms. Understanding copyright and licenses is a complex issue but a very important topic in museums. In this module you will learn basic notions that can be useful, including terminology, useful links to learn more and practical exercises.
Knowledge domain	Copyright and licensesCopyright and licenses - terminology
Learning outcomes	 Identify in the hub site if there are, and where are the terms of use and the policies Examine the presence and type of information of the online captions of the images of the museum site
Units	1. Copyright and Licenses

Competence title	Programming
Туре	Digital (DigComp)
Description	This module will introduce learners to programming. They will learn the very basis of computer language and the most famous languages for website development.
Knowledge domain	Computer programmingMost used languages for web development
Learning outcomes	 Identify the fundamentals of programming Explain the main difference between client and server side Use 3 elements of CSS to do specific things in more



	than one HTML pageIllustrate the 5 basic elements of an HTML page structure
Units	 How computers receive and elaborate information Most used languages for web development

Competence title	Solving technical problems
Туре	Digital (DigComp)
Description	This module will present the basic concepts regarding solving technical problems with a focus on museum and respective audience needs, detailing methods and tools such as the root cause analysis or the problem tree analysis. It will also present potential technical problems with related causes, consequences and possible actions. At the end, learners will be able to address a problem in a systematic way using concepts and tools relevant to the subject.
Knowledge domain	Problem solvingTechnical problems
Learning outcomes	 Describe principles and concepts of problem solving; Identify different methods and tools that could be used to problem solving; Explain the different problem solving methods and techniques; Identify the typical problems; Identify different approaches to solve a problem; Identify problem, causes, consequences and actions Employ the different problem solving methods and techniques; Construct a problem tree; Create a problem tree scheme; Evaluate the relevance of a problem and respective causes and consequences;
Units	 Problem solving Technical Problems



5.2.3 Transferrable / 21st century skills

Competence title	Management skills
Туре	Transferrable / 21 st century skill
Description	This module will introduce learners to three interrelated management skills: planning, decision-making, and communication. These skills will be considered in the context of a museum digital strategy and analyzed from a global and a more specific point of view, addressing the role of the Digital Collections Curator and the Online Community Manager.
Knowledge domain	 The main example domains are: Management skills; Planning, communication, cooperation within the museum; Digital strategy in museums.
Learning outcomes	 Define two current actions of a digital strategy according to the interview Indicate two possibilities for people who use the Rijksstudio platform Apply three principles of the digital strategy explored with Inspiring People project Analyze one of the possibilities offered by digital experience at Tate Modern gallery Arrange a digital platform
Units	 Approaching digital strategy in museums Digital strategy: from the vision to the application

Competence title	Influence / persuasion skills
Туре	Transferrable / 21 st century skill
Description	Never the term "Influence", or the words derived from it, as "influencer", has been used as it is today, without, however, clearly understanding of what it refers to. Note that the use of influence and persuasion in museums must always respect the characteristics of this institution, calling for constant use in accordance with well-defined ethical principles.
Knowledge domain	 21st century competencies Communication
Learning outcomes	 Identify three principles of influence/persuasion Indicate three strategies that stimulate influence Indicate two daily work situations where persuasion is a useful and a valuable skill Identify the most important outcome of influence and persuasion skills in museum work



Units	 Influence, persuasion: meanings and limits Influence, persuasion and museums
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Competence title	Mentoring / coaching skills
Туре	Transferrable / 21 st century skill
Description	This module will introduce participants to the concept, techniques and benefits of mentoring and coaching as tools for professional and personal development, with the focus on people working in the arts sector. While mentoring is a powerful tool for developing personal qualities and obtaining new skills, coaching is largely understood as a tool for improvement of professional performances in order to achieve addressed goals. Similarities and differences between mentoring and coaching are the subjects explored in this course. In this regard, the scope of this course is to help learners understand the benefits of the mentoring or coaching partnership, to identify the key soft skills that can be triggered as well as to be familiarized with the practical application of both concepts in many fields of work.
Knowledge domain	 Soft skills for the arts (museum) sector Mentoring and coaching for the creative sector Tools for professional and personal development
Learning outcomes	 Describe what mentoring is in 10 words Describe the coaching relationship in 10 words Recognize differences and similarities between mentoring and coaching Identify 1 specific moment when you were 'mentorable' Identify at least 5 traits of a great mentor Identify at least 5 traits of a successful coach Illustrate a mentoring programme for your existing or ideal work place. Identify 3 soft skills that a mentee can develop through a mentoring relationship Evaluate 3 benefits of being in a mentoring programme both for the mentor and the mentee
Units	 What are mentoring and coaching and why do they matter for museum professionals? Mentoring stories: programmes and cases throughout the arts (museum) sector



Competence title	Integrity / Ethical
Туре	Transferrable / 21 st century skill
Description	In a time of many transformations and rapid changes, museum ethics is a very hot topic. Museum professionals not only have to carry out their work in a competent way, but also have to be aware of the ethical implications of their work. In fact, ethics is embedded in most daily activities of every museum professional. This module explores the role of ethics in museums and its relevance today. Examples of current ethical dilemmas will be presented, including ethical challenges that may arise from the digital environment.
Knowledge domain	Museum EthicsCode of Ethics
Learning outcomes	 Identify when was published the first Code of Ethics for museum workers Recognize what makes ICOM Code of Ethics distinctive from other codes of ethics in the museum sector Select at least three ethical issues in the museum sector Indicate at least two ethical challenges for museums in the digital environment Identify the most important outcome of using professional codes of ethics as reference tools Analyse ethical dilemmas in action with the help of the ICOM Code of Ethics
Units	 Ethics matters for museums Ethical issues in the museum sector

Competence title	Decision making
Туре	Transferrable / 21 st century skill
Description	This module will introduce learners to the knowledge of the decision-making field from a general point of view to a specific perspective.
	Starting with the meaning of the principle terms linked to the topic we will explore the main theories of decision-making. Concerning the application of this skill in museums, we will suggest some steps to follow to lead decisions for the better and we will show how data analysis can be useful.
Knowledge domain	 The main example domains are: Terms and definitions; Theories; Approaches and dynamics; Barriers and solutions in the museum context; The data analysis applied in a real case study.
Learning outcomes	 Define the dynamics of decision-making in groups;



	 Indicate two decision-making theories; Apply an analytic approach; Arrange the data analysis. Predict two possible scenarios of interactions of users on the website
Units	 A guide to survive Actions in the museum context

Competence title	Sense of initiative and entrepreneurship
Туре	Transferrable / 21 st century skill
Description	The overall objective of this module is to familiarize learners with the concept and tenets of entrepreneurship, focusing on what it is, why it is relevant for Museum professionals, when it is applied or not and how to do it in practice. Entrepreneurship is interpreted as a transversal competence, necessary for every professional working in a changing and open work environment. Based on the Entrepreneurial Competence Framework learners will know that entrepreneurship goes beyond the narrow understanding of setting up business; they will learn that entrepreneurship supports individuals, not only in their everyday lives at home and in society, but also in the workplace in being aware of the context of their work and being able to seize opportunities, to turn ideas into action and be able to start value-creating initiatives at work.
Knowledge domain	 Soft skills for the arts (museum) sector Entrepreneurial competences for the creative sector Creativity Digital entrepreneurship for the creative sector
Learning outcomes	 Know the meaning of sense of initiative and entrepreneurship within the lifelong learning framework. Describe the broad concept of entrepreneurship for the cultural sector in 10 words. Identify three characteristics of museum entrepreneurship. Recognize similarities and differences between entrepreneurship for profit and nonprofit organizations. Summarize the rationale and scope of the Entrepreneurship Competence Framework. Evaluate from the 15 competences of the Entrecomp the most suitable according to their needs for professional and personal development. Analyze at least 3 competences from each of the areas of the EntreComp (in total 9 competences). Manage their resilience at their work environment. Apply evidence based approaches for improving their entrepreneurship competences. Identify the main characteristics of digital



	entrepreneurshipCombine digital and entrepreneurial competences for the cultural sector
Units	1. The Sense of Initiative and Entrepreneurship as key competence for Museum professionals
	2. Enhancing Entrepreneurial Competencies within EntreComp
	3. Towards Digital Museum entrepreneurship

Competence title	Analyse and synthesize information
Туре	Transferrable / 21 st century skill
Description	The ability to analyse and synthesize information is valuable for museum professionals. It is often related to critical thinking, creative thinking, innovation, managing information, and is driven from the need of solving problems and making informed decisions.
	Analyzing and synthesizing information is embedded in many museum activities. It is an ability that can be developed further by every museum professional in any job profile.
	This module explores the meaning and value of analyzing and synthesizing information as part of critical and creative thinking in the context of a reflexive and informed museum practice. Some guidance and examples will be provided.
Knowledge domain	 Critical thinking Creative thinking Innovation Information management
Learning outcomes	 Identify three situations in museum work that demand the ability to analyse and synthetize information List three tools that can be useful when analyzing information Select at least three domains where the ability to analyse and synthesize information is often related Indicate at least two steps that can help making informed decisions and building your critical and creative museum practice Identify the most important outcome of analyzing and synthesizing information Analyse an article
Units	1. Building a critical, creative and informed museum practice



Competence title	Networking skills
Туре	Transferrable / 21 st century skill
Description	In our modern society, it has become necessary and indeed urgent for museums to redefine
	their missions, their goals, their functions and their strategies to reflect the expectations of a changing world.
	This module intends to introduce participants to importance for museums to network to reach a wider audience and face easier the digital challenges.
	Personnel development through (international) networking is a necessary approach in sharing the pending problems that museums face in common.
Knowledge domain	 Networking for museums -an oversight Interview to one of the representative of NEMO. The Network of European Museum organization Networking for museums -Practical tools, how to network
Learning outcomes	 To illustrate networking in the cultural sector, specifically in museums, as a means of audience engagement To examine networking for museums as a means of digital development To construct a professional network.
Units	 Networking for museums -an oversight Networking practical tools

Competence title	Interpersonal skills
Туре	Transferrable / 21 st century skill
Description	This unit will describe the complexity of interpersonal skills definition, and will help to find ways to develop one of the most required competences of the 21st century
Knowledge domain	 21st century Competencies Communication
Learning outcomes	 Identify two main types of interpersonal skills Indicate three strategies that develop interpersonal skills Indicate two online work attitudes you must have online, according to best practices of your interpersonal skills
Units	1. Interpersonal skills definition and development



Competence title	Negotiation skills
Туре	Transferrable / 21 st century skill
Description	"Negotiation is part of our lives from our early age and throughout our working life. We are continuously negotiating our desires and what we call "reality". Negotiation skills are, therefore, an essential tool of our workplace skillset. This module is organized around two units. The first unit explores some of the counterproductive assumptions about the process of negotiation and some of the theory around it. An overview about the purposes of negotiation will also be presented. Guidance on how to prepare a negotiation strategy, and tips and tools on how to become a better negotiator will be also provided. Lea Walter, a clinical psychologist, has collaborated on the preparation of this module. The second unit presents of examples of how museums are rethinking their role in society, taking in consideration the negotiation processes and difficult conversations that such approaches entail. That is the case of the Museé de l'Homme, in Paris, and the Tropenmuseum in Amsterdam.
Knowledge domain	 Negotiation skills Communication Influence/persuasion Museums
Learning outcomes	 Describe at least three dimensions of a negotiation strategy Describe the four elements of the mutual gain approach Identify at least three elements of psychological influence in negotiation Apply at least one tool to use to prepare for a negotiation strategy Demonstrate how to prepare for the three fundamental dimensions of any negotiation: People, Problem (substance) and Process Analyze at least two successful factors of the two museums analyzed Identify three soft skills that you need in a negotiation process Analyze at least one typical factor of failure in negotiation and develop proper responses Evaluate one key element of a successful negotiation strategy Conclude at least three reasons why museums should become places of negotiation
Units	 How to better negotiator: theory and practical tools Museums as places of negotiation



Competence title	Active listening skills
Туре	Transferrable / 21 st century skill
Description	Active listening is an enhanced, active state of listening. Most of the people consider listening as a passive activity. Something that we can do while we are doing something else. It requires effort, self-awareness, and practice. It is a powerful tool, because it helps to understand more efficiently the issues that you are tackling and also helps you to communicate better inside of your team, with other departments and with external stakeholders.
Knowledge domain	 Active listening Active listening as a Psychophysiological process Communication Empathic listening
Learning outcomes	 Describe at least 1 element of active listening Differentiate between active and passive listening Describe one methodology to creatively listening to your audiences Discover the principle of Imitative decoding Illustrate the principle of active empathic listening Illustrate one reason why how active listening can diffuse conflict in workplaces Identify 1 element of "non-functional" listening Experiment active listening within the workplace
Units	 Active Listening: what is it and how to practice it How to listen creatively to your audiences

Competence title	Resilience
Туре	Transferrable / 21 st century skill
Description	Resilience is one of the most valorised skills in our times. In this course Learners will understand what resilience is and how can museum professionals develop this skill.
Knowledge domain	 21st century competencies Communication
Learning outcomes	 Identify the resilience definition Identify two principles of resilience Indicate two strategies that stimulate resilience Indicate two daily work situations where resilience is a useful and a valuable skill Identify the most important outcome of resilience use in museum work
Units	 What is resilience: an introduction Resilience and museums



Competence title	Storytelling
Туре	Transferrable / 21 st century skill
Description	Museums are about stories. Storytelling (digital or not) capture the attention, appeal to emotions, and encourage imagination and reflection. It also creates knowledge, comprehension and empathy. Finally, but rather central, it helps engagement. Is, therefore, a relevant tool for museums and museum professionals.
	This module will introduce learners to what is storytelling and its techniques, focusing on the benefits of this approach for engagement in museums and cultural organizations alike as well as cultural heritage valorization. This module will also present several examples of how museums are exploring the potential of sharing (hidden) stories.
Knowledge domain	 Storytelling in museums -an oversight of this practice used as a tool of cultural heritage valorization Storytelling for museums -an oversight of this practice used as a tool of audience strategy Case studies
Learning outcomes	 Compare strategies adopted by museums embracing storytelling for cultural heritage valorization Compare strategies adopted by museums embracing storytelling for audience engagement Identify at least one features for museums to be agent of change Compare museums using storytelling Propose a strategy for audience engagement using storytelling
Units	 The power of storytelling in museums Exploring storytelling in museums: Best Practices



5.3 Indicative work-based learning activities

WBL activity	Design and implement an audience development plan in line with the museum's overall strategic communication plan. Conduct research online, identifying the needs of the public.
Hours	100 – 200 hours
Description	Design an online research to identify the users' profile, needs and expectations of the current social media platforms of the museum. Use this information to design an audience development plan alligned with the museum's overall communication strategy. Set the mission, the specific goals (SMART goals), the target audiences and the specific actions of such a plan. Define the criteria to measure the successful implementation of the plan. Involve in the design of the plan from the start the different departments of the museum and keep them regularly informed on the results.
Learning outcomes	 Construct an audience development strategy. Design interactive and innovative solutions that provide meaningful experiences for all types of museum audiences. To illustrate networking in the cultural sector, specifically in museums, as a means of audience engagement Describe one methodology to creatively listening to your audiences Compare strategies adopted by museums embracing storytelling for audience engagement Compare strategies adopted by museums embracing storytelling for audience engagement Compare strategies adopted by museums embracing storytelling for audience engagement Illustrate at least three examples of different environments and audiences. Choose an effective communication strategy considering the context and regarding the audience and the digital environment. Identify the difference between Digital communication and digital transformation Interpreting the performance of online communication applications. Assessing the performance of online communication applications. Identify efficient use of internet tools for superior research collection methods Define strategies and goals on data browsing research and information analysis



WBL activity	Engage, monitor and manage the public online. Perform and monitor online activities.
Hours	100 – 200 hours
Description	Undertake day-to-day management of the museum's online public (web site and social media platforms). Choose the best ways to record and analyse daily use and participation, as well as to encourage active engagement of the public (e.g. searching the collections, posting comments, responding to museum's appeals for support/donations etc.). Create content that enhance public curiosity and anticipation for the museum (e.g. questions, quizzes, stories etc), facilitate comments and cultivate a vivid public image for the museum (e.g. by prompt responses to comments etc). Communicate regurarly and effectively public's feedback to the other museum departments. Initiate online activities that would motivate people's participation also in the physical space of the museum or the city, e.g. create an online event / discussion in social media (e.g. a quiz or a competion) that will later be evolved to an educational programme or open event within the museum. Encourage and facilitate the creation of online communities that starting from their interest e.g. in a specific collection would create a community of practice or a group that would support or advocate for the museum.
Learning outcomes	 To illustrate networking in the cultural sector, specifically in museums, as a means of audience engagement Compare strategies adopted by museums embracing storytelling for audience engagement Compare strategies adopted by museums embracing storytelling for audience engagement Identify the role of mediation using social media and social networking in museums Identify the main activities of the mediator using social networks. Describe at least 2 ways of communications through social media channels To measure the success of digital activity including social media activity Identify the role of mediation using social media and social networking in museums Identify the role of mediation using social media and social media channels To measure the success of digital activity including social media activity Identify the role of mediation using social media and social networking in museums Illustrate at least three cases of poor online behaviour. Describe how the cultural and generational diversity implicate the online communication. Demonstrate digital competence gaps through online tools Arrange a digital platform Examine the presence and type of information of the online captions of the images of the museum site Predict two possible scenarios of interactions of users on



the website

WBL activity	Deal effectively with other departments of the organization to produce meaningful content and online experiences.
Hours	100 – 150 hours
Description	Establish a daily communication with the curatorial, education and communication staff of the museum and use their input to create rich and meaningful online content. Provide a complete series of such content for the museum's web site and social media.
Learning outcomes	 Discuss how usability can affect the user experience, from analyzing a case study. Choose best options to ensure good experiences and authenticity to visitors Design interactive and innovative solutions that provide meaningful experiences for all types of museum audiences. Identify the experience marketing on museum Developing digital content To select relevant content to post online Identify at least two (2) good practices on the use of digital content in Museums



WBL activity	Evaluate the effectiveness and efficiency of online activities.
Hours	100 – 150 hours
Description	Design and implement an evaluation survey of online activities. Set quantitative and qualitative evaluation criteria and analyze your findings in order to provide the museum with a report of users' current interests and participation. Include specific suggestions for improvements, according to the museum's mission and goals.
Learning outcomes	 Evaluate the relevance of a problem and respective causes and consequences Interpreting the performance of online communication applications. Assessing the performance of online communication applications. Arrange benchmarks to be used as part of an organisation's planning cycle to assess and plan an activity and measure progress against those plans. Create an assessment checklist reflecting continuous review and improvement appraisal of a performance area framework (i.e. Collections Management, Exhibition, etc.)



5.4 Competence handbooks