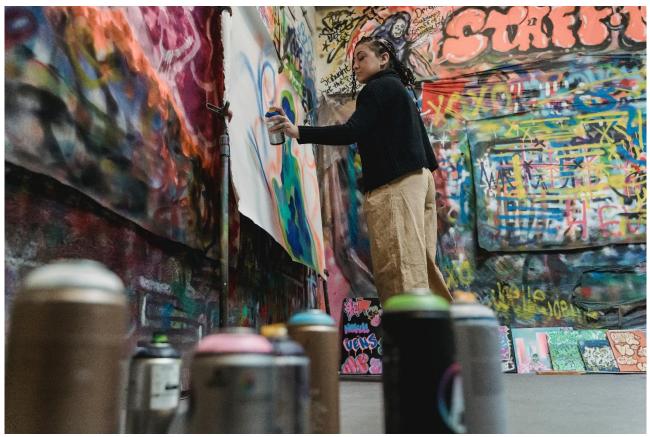


Co-funded by the Erasmus+ Programme of the European Union

# QUANTUM PROJECT - O2/A1

- Common curriculum, including learning outcomes, training plan, and learning materials -



Source: Photo by Felicity Tai on Pexels

Project number: 2020-1-SK01-KA202-078249.

EU Programme - ERASMUS + Key Action 2: Strategic Partnerships supporting Innovation.

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## Project Data Sheet

Project Acronym	QUANTUM
Project Title	<b>QUANTUM</b> - <b>QUA</b> lity <b>N</b> etworks: fine- <b>T</b> Uning <b>M</b> onitoring systems for better performances in VET
Project	2020-1-SK01-KA202-078249
Project Duration	01/12/2020 - 30/05/2023 (36 months)
Lead Grantee	SIOV - State Vocational Education Institute, Slovakia
Other Partner Grantees	CECOA, PT; FORMA.Azione SRL, IT; AK Salzburg, AT; REGIONE UMBRIA, IT
Project Budget - Amount (EUR)	244,417.00 EUR
Funding agency	EU Programme - ERASMUS + Key Action 2: Strategic Partnerships supporting Innovation
Beneficiary countries	Slovakia, Italy, Portugal and Austria
Website	https://www.quality-networks.eu/
Common Curriculum (O2/A1)	Developed by CECOA
Date/Version	14 March 2022/first draft of part 1 of the curriculum (21 March comments; 31 March final version)





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### Acronyms and abbreviations

A	Activity
EC	European Commission
EU	European Union
EQAVET	European Quality Assurance in Vocational
	Education and Training
IO	Intellectual Output
QP	Quality Plan
QA	Quality Assurance
QAS	Quality Assurance System
QN	Quality Networks
QUANTUM	QUANTUM - QUAlity Networks: fine-TUning
	Monitoring systems for better performances in VET
VET	Vocational Education and Training



#### About the QUANTUM project

The QUANTUM project aims to promote the relevance and effectiveness of **vocational education and training (VET)** and its contribution to employment in Europe. The intent of the project is to create and test a new monitoring system based on feedback loops and graduate tracking in order to strengthen quality assurance through **quality networks (QN) in Slovakia, Austria, Italy and Portugal.** 

The transnational project partnership supported by the Erasmus+ programme will use **the peer review method** during the implementation of the project, which will foster cooperation between stakeholders in VET and will provide an opportunity for mutual learning and professional growth.

The **QUANTUM consortium** is led by SIOV - State Vocational Education Institute (Slovakia) with partners from Portugal (CECOA), Italy (FORMA.Azione SRL and REGIONE UMBRIA) and Austria (AK Salzburg).

QUANTUM project started in December 2020 and will end in May 2023.

For more information see <a href="https://www.quality-networks.eu/">https://www.quality-networks.eu/</a>





#### **Executive Summary**

A common curriculum on *Capacity building for Quality Networks implementation and sustainability* with a training plan, training contents, learning outcomes and learning materials, underpinned by the pedagogical methodologies used, is presented within the scope of the Quantum project (IO2/A1).

#### Introduction

The training plan of the curriculum for *Capacity building for Quality Networks implementation and sustainability* is the result of IO2 <sup>i</sup>/A1<sup>ii</sup>. The curriculum is 30 hours long, being 10 hours similar for all partners and 20 hours of open curriculum depending on each national context and demand. The training plan is built upon training contents related with learning outcomes, highlighting the pedagogical methods proposed to achieve the goals of each training unit. The training contents respect the ones foreseen in the project description, with additional contents provided by the experience and brainstorming of the Quantum consortium. The training contents, as well as related learning outcomes and main methodologies used are presented below:

Training contents	Learning outcomes	Main methodologies
Quality Network approach	How to networking with VET key actors and stakeholders	Peer teaching/learning
EQAVET framework and indicators	Setting up a Quality Network	Practical exercises also aimed at adapting/innovating Quality areas and
European Peer Review methodology	Implementing the EQAVET framework at	indicators of Peer Review developed for VET
VET graduate tracking arrangements	provider level	Practical exercise to design and test VET graduate tracking arrangements and
Feedback Loops: bring the perspective of beneficiaries and other stakeholders into	Managing the EU Peer Review process	feedback loops
account	Managing QA practices and arrangements for establishing feedback loops and for	Role-playing/ simulation on networking and communication skills
Alumni club	tracking graduates	
Communication and networking	Designing and implementing VET Graduate tracking measures and Feedback Loops among VET Key Stakeholders	*Reference activities will be differentiated according to national context.
	Collecting and systematizing data related to VET graduate	
	Identifying and applying offline and online feedback loops tools and procedures	
	Effective communication with other relevant professionals in VET field	

Table 1: Curriculum of the Capacity building for Quality Networks implementation and sustainability training

The training plan is organized around seven (7) thematic units divided into face to face training and online training with slot of time alocated/suggested, that can be adapted to each national/country needs.





#### 1. Overview of the training plan: objectives of the units and template to use

The seven (7) training units follow the project description, being supported by improvements suggested by each partner during the implementation of IO1 (Guidelines for Quality Network setting up and implementation). Below is presented each unit objectives (i.e., general and specific), with the template to be used when planning the training in each national context. The time-bonded proposed is to be adapted to each national need, as mentioned previously.

UNIT	NAME		OBJECTIVES	Nº H	OURS
		General	Specific	Suggested	Adapted
1	Quality Network approach	To know what is a Quality Network Approach (QNA)	To Identify a QNA	5 hours	X hours
			To apply a QNA to your national context		
		To implement a QNA	To construct a QNA model		
			To test your QNA model		
2	EQAVET framework and indicators	To know EQAVET framework	To define Quality Assurance (QA) To understand what is EQAVET framework	4 hours	X hours
		To describe EQAVET	To identify the four stages of the EQAVET		
		indicators 5 and 6	quality model (type and purpose)		
			To define a data collect tool to inform EQAVET indicators 5 and 6		
3	European Peer Review methodology	To describe the Peer Review methodology	To identify the core principles of PRM: process integrity, quality assurance (QA),	4 hours	X hours
	methodology	(PRM)	governance structure and methodology		
			To identify and describe the four stages of		
			European PRM: preparation, peer visit,		
			reporting, improvement actions and evaluation		
		To identify the common	To describe the building blocks of PRM: data		
		principles and building	collection, data analysis, assessment and		
		blocks of PRM	reporting on applied PRM		
	VET and the trackless	To define and other	To apply PRM to your context	4 1	M h a suga
4	VET graduate tracking arrangements	To define graduate tracking system (GTS)	To define what is GTS in VET	4 hours	X hours
			To understand the four steps of GTS: preparing, designing, implementing and		
			disseminate		
		To be aware of VET GTS in	To identify the four VET GTS in Europe:		
		Europe	mapping, analysis, identification and review		
			To define monitoring and evaluation indicators for VET GTS		
5	Feedback Loops: bring the perspective of	To define Feedback Loops (FL)	To define what is FL	4 hours	X hours
	beneficiaries and other stakeholders into		To identify the fours formal FL mechanisms: liberal. statistic. coordinated and		
	account		liberal, statistic, coordinated and participatory		
		To be aware of FL in Europe	participatory		





			To identify informal FL mechanisms: local school boards, alumni networks, career fairs, cooperative projects between schools and companies, and internships To understand which FL mechanism is used in your context		
6	Alumni club	To define what an Alumni Club (AC) is	To define AC within a transformative change methodology To understand the alumni network learners' approach	4 hours	X hours
		To be aware of AC in Europe	To describe the AC practice in Europe To explain how AC or practices are developed in your context		
7	Communication and networking	To define communication and networking within a VET QNA	To distinguish between communication and network To identify soft skills relevant for communication and networking: empathy, active listening, public speaking, focus, teamwork, digital competences, awareness of yourself and environment	5 hours	X hours
		To implement a strategy of communication and networking for VET QN purposes	To construct a model for whom and why you want to communicate, and which networks you already have and develop a strategy to expand your networks To develop a plan for communication and networking adaptable to your context		
			Total number of hours:	30 hours	X hours
		Table 2: Quant	tum Curriculum Datasheet	50 110013	Anours

#### Regarding each unit of the curriculum, it will be organized as following:

	UM Curriculum on: Capacity building for Quality Networks implementation and sustainability
1.	Name of the training unit
2.	Trainer/staff name, contacts
3.	Number of contact hours/number of autonomous study
4.	Learning outcomes of the training unit
5.	Syllabus
6.	Learning materials
7.	Teaching and evaluation methodologies
8.	Bibliographic references



### 2. Training units of the Quantum Curriculum

#### 2.1. Unit 1: Quality Network Approach<sup>iii</sup>

Name of the training unit	UNIT 1         Quality Network         Approach (QNA)
Trainer/staff name, contacts	Name, email and/or phone number
Number of contact hours/number of autonomous study (Define if it will be face to face training and/or online training or	5 hours (contact)/autonomous study to be determined by each trainer in each national context (could be justified as part of the
both)	30 hours training plan)
Learning outcomes of the training unit	Being able to actively contribute to Quality Network setting up
Syllabus	<ul> <li>1.Brief overview of the Quantum Project (QP)</li> <li>1.1.What is the QP: project description and partnership</li> <li>1.2.Overview of IO1 - "Guidelines for Quality Network setting up and implementation"</li> <li>2.First steps for the implementation of a QN</li> <li>2.1.Quantum Check List – self-reflection</li> <li>2.2.Definition of a QN using a community of practice (CoP) approach: iniciate, discover, develop and incubate (section Start a CoP, see online materials)</li> <li>3. Construting and testing a QN model for your national context</li> </ul>
Learning materials	Online materials         https://miro.com/templates/mind-map/         https://collaboration.worldbank.org/content/sites/collaboration-         for-development/en/groups/communities4Dev/files.html         https://participedia.net/method/4938?lang=en         https://www.plays-in-business.com/barcamp/         https://competendo.net/en/Bar_Camp         Offline materials         BUILDING PARTNERSHIPS MAP_ANNEX 1         Quantum Check List_ANNEX2 (word and PDF versions)
Teaching and evaluation methodologies	Peer teaching/learning
Bibliographic references	Practical exercises (online and/or offline) Dennerlein et al. (2015), "Knowledge Strategies in Organisations – a Case for the Barcamp Format", DOI: <u>10.13140/RG.2.1.4145.5846</u> Quantum (2022), "IO1 - Guidelines for Quality Network setting up and implementation" (ANNEX 3 in word and PDF) - Quality Network approach





#### Unit 2: EQAVET Framework and Indicators<sup>iv</sup> 2.2.

	UNIT 2 EQAVET Framework and Indicators	
Name of the training unit	EQAVET Framework and Indicators	
Trainer/staff name, contacts	Name, email and/or phone number	
Number of contact hours/number of autonomous study (Define if it will be face to face training and/or online training or both) Learning outcomes of the training unit	<ul> <li>4 hours (contact)/autonomous study to be determined by each trainer in each national context (could be justified as part of the 30 hours training plan)</li> <li>Implement the EQAVET framework at provider level</li> </ul>	
Syllabus	<ul> <li>1.Quality Assurance (QA) and EQAVET Framework</li> <li>1.1.Definition of QA: meaning of quality at national level, how to involve key stakeholders, and alignment theory</li> <li>1.2.QA in VET: inputs, processes and outcomes</li> <li>1.3.What is the EQAVET Framework</li> <li>1.4.Who uses EQAVET Framework and for what purposes</li> <li>1.5. Principles of Quality Assurance in EQAVET</li> <li>2.EQAVET Indicators 5 and 6</li> <li>2.1.The PDCA cycle (plan-do-check.act): purpose and plan, implementation, assessement and evaluation, review</li> <li>2.2.Definition of EQAVET Indicators</li> <li>2.3.Data collection methods to inform EQAVET indicators (activity 5, see Annex 4)</li> </ul>	
Learning materials	Online materials <u>Handbook for VET providers</u> Offline materials Activity 5_Collecting and using data_ EQAVET_Training material_ANNEX4	
Teaching and evaluation methodologies	Peer teaching/learning Practical exercises (online and/or offline)	
Bibliographic references	EQAVET INDICATORS' TOOLKIT	
Table 5: Quantum training unit 2 – EC	QUALITY ASSURANCE IN VOCATIONAL EDUCATION AND TRAINING	

Table 5: Quantum training unit 2 – EQAVET Framework and Indicators



#### Unit 3: European Peer Review Methodology<sup>v</sup> 2.3.

Name of the training unit	UNIT 3 European Peer Review Methodology
Trainer/staff name, contacts	Name, email and/or phone number
Number of contact hours/number of autonomous study (Define if it will be face to face training and/or online training or both) Learning outcomes of the training unit	4 hours (contact)/autonomous study to be determined by each trainer in each national context (could be justified as part of the 30 hours training plan) Organise and apply the EU Peer Review process
	organise and apply the EOT certificities process
Syllabus	<ul> <li>1.Peer Review Mehtodology (PRM)</li> <li>1.1.Definition of PRM: process integrity, quality assurance (QA), governance structure and mehtodology</li> <li>1.2.The Quality Areas (QA) within PRM</li> <li>1.3.The PDCA cycle (plan-do-check.act): purpose and plan, implementation, assessment and evaluation, review</li> <li>2.Common principles and building blocks of PRM</li> <li>2.1. The building blocks of PRM: data collection, data analysis, assessment and reporting on applied PRM</li> <li>2.2. To apply PRM to your context</li> </ul>
Learning materials	Online materials
	The EQAVET Network approach to system level peer reviewsQI Games: Learn How to Use PDSA Cycles by Spinning CoinsOffline materialsEuropean Peer Review Tool-box_Annex 5 (Zip)
Teaching and evaluation methodologies	Peer teaching/learning Practical exercises (online and/or offline)
Bibliographic references	European Peer Review Quality Areas and Criteria for Vocational Education and Training (VET) European Peer Review Guide European Peer Review Manual for Initial VET
Table 6: Quantum training unit 3	8 – European Peer Review Methodology

Table 6: Quantum training unit 3 – European Peer Review Methodology



#### Unit 4: VET Graduate Tracking Arrangments<sup>vi</sup> 2.4.

	UNIT 4 VET Graduate Tracking Arrangements
Name of the training unit	VET graduate tracking arrangements
Trainer/staff name, contacts	Name, email and/or phone number
Number of contact hours/number of autonomous study	4 hours (contact)/autonomous study to be determined by each
(Define if it will be face to face training and/or online	trainer in each national context (could be justified as part of the 30
training or both)	hours training plan)
Learning outcomes of the training unit	Manage QA practices and arrangements for tracking graduates
	Design and implement VET graduate tracking measures Collect and systematise data related to VET graduate
Syllabus	1.Graduate Tracking System (GTS) in VET
	1.1.Definition of what is a GTS in VET
	1.2. The four steps of GTS: preparing, designing, implementing and
	disseminate
	2.VET GTS in Europe
	2.1. The four VET GTS in Europe: mapping, analysis, identification and
	review
	2.2.Monitoring and evaluation indicators for VET GTS
Learning materials	Online materials
	Causes diagram PROBLEM DEFINITION
	Offline materials
	Graduate tracking guide_ ANNEX6
Teaching and evaluation methodologies	Peer teaching/learning
	Practical exercises (online and/or offline)
Bibliographic references	Graduate Tracking: Prospects and Applications_ANNEX7
	Mapping the state of graduate tracking policies and practices in the
	EU Member States and EEA countries
	Monitoring and measuring the results of interventions related to
	technical and vocational education and training and the labour
	market A guideline for practitioners
	Systems in Europe – 2019



#### 2.5. Unit 5: Feedback Loops - bring the perspective of beneficiaries and other stakeholders<sup>vii</sup>

Name of the training unit	UNIT 5         Feedback Loops: bring the perspective of beneficiaries and other stakeholders into account         Feedback Loops: bring the perspective of beneficiaries and other stakeholders into account
	stakeholders into account
Trainer/staff name, contacts	Name, email and/or phone number
Number of contact hours/number of autonomous study (Define if it will be face to face training and/or online training or both)	4 hours (contact)/autonomous study to be determined by each trainer in each national context (could be justified as part of the 30 hours training plan)
Learning outcomes of the training unit	Manage QA practices and arrangements for establishing feedback loops Design and implement Feedback Loops among VET Key Stakeholders Collect and systematize data related to VET graduate Identify offline and online feedback loops tools and procedures
Syllabus	<ul> <li>1. Definition and mechanisms of Feedback Loops (FL)</li> <li>1.1. What are FL</li> <li>1.2. The fours formal FL mechanisms: liberal, statistic, coordinated and participatory</li> <li>2. FL in Europe</li> <li>2.1. Exploring the informal FL mechanisms: local school boards, alumni networks, career fairs, cooperative projects between schools and companies, and internships</li> <li>2.2. Describing and analysing which FL mechanisms are used and suitable for your context</li> </ul>
Learning materials Teaching and evaluation methodologies	Online materials         LEARNING LOOP         QUESTION LADDER         STORYWORLD         Offline materials         Engaging with learning outcomes_ANNEX8 (activity 2, p. 13)         Peer teaching/learning
Bibliographic references	Practical exercises (online and/or offline) <u>Staying in the Loop: Formal Feedback Mechanisms Connecting</u> <u>Vocational Training to the World of Work in Europe</u> <u>Renewing VET provision. Understanding feedback mechanisms</u> <u>between initial VET and the labour market</u> ning unit 5 – Feedback Loops





#### 2.6. Unit 6: Alumni Club<sup>viii</sup>

Name of the training unit	UNIT 6 Alumni Club
Trainer/staff name, contacts	Name, email and/or phone number
Number of contact hours/number of autonomous study (Define if it will be face to face training and/or online training or both)	4 hours (contact)/autonomous study to be determined by each trainer in each national context (could be justified as part of the 30 hours training plan)
Learning outcomes of the training unit	How to networking with VET key actors and stakeholders Collect and systematise data related to VET graduate
Syllabus	<ul> <li>1. Definition and scope of an Alumni Club (AC)</li> <li>1.1. Definition and scope of an AC within a transformative change methodology</li> <li>1.2. Exploring the Alumni network learners' approach</li> <li>2. Overview of the AC in Europe</li> <li>2.1. Description of the AC practice in Europe</li> <li>2.2. Discovering and reflecting on how AC or practices are developed in your context</li> </ul>
Learning materials	Online materials         People shadowing         Offline materials         Guide on Alumni relations programs in VET schools ANNEX 9 (choose which exercise/template is more appropriate for your learning environment and apply it, pp. 68-74)
Teaching and evaluation methodologies	Peer teaching/learning Practical exercises (online and/or offline)
Bibliographic references	Guide on Alumni relations programs in VET schools ANNEX 9 https://www.esaa-eu.org/esaa-projects/communication-kit https://www.alumniportal-deutschland.org/en/about-us/alumni- networks

Table 9: Quantum training unit 6 – Alumni Club





#### 2.7. Unit 7: Communication and Networking<sup>ix</sup>

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	UNIT 7
	Communication and
	Networking
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	S N N N N N N N N N N N N N N N N N N N
	AREXX4.5
Name of the training unit	Communication and Networking
Trainer/staff name, contacts	Name, email and/or phone number 5 hours (contact)/autonomous study to be determined by each
Number of contact hours/number of autonomous study (Define if it will be face to face training and/or online	trainer in each national context (could be justified as part of the 30
training or both)	hours training plan)
Learning outcomes of the training unit	Network with VET key actors and stakeholders
	Communicate effectively with other relevant professionals in VET field
Syllabus	1. Definition and scope of communication and networking
	1.1. What is communication and networking: identifying problems and
	planning strategic actions
	1.2. Understanding and exploring soft skills on communication and
	networking: empathy, active listening, public speaking, focus, teamwork, digital competences, awareness of yourself and
	environment
	2. Implementing a strategy of communication and networking for
	VET QN purposes
	2.1. Analyzing and developing a model for whom and why you want to
	communicate, and which networks you already have, designing a
	strategy to expand your networks 2.2. Examples and practices of a plan for communication and
	networking adaptable to your context
Learning materials	Online materials
Ŭ	Develop a Communications Plan
	EXPERIENCE TOUR
	https://ctb.ku.edu/en/table-of-contents/participation/promoting-
	interest/communication-crisis/main
	<u>CommunityToolbox</u> Offline materials
	Communications Plan Template _ANNEX 12
Teaching and evaluation methodologies	Peer teaching/learning
	Practical exercises (online and/or offline)
	Role-playing/ simulation on networking and communication skills
Bibliographic references	Guide to effective communication_ANNEX 11
	Guide to networking_ANNEX 13
	https://bettermarketing.pub/the-complete-guide-to-networking-for-
	people-who-dont-like-it-63e8b818b06e t 7 – Communication and networking

 Table 10: Quantum training unit 7 – Communication and networking
 Image: Communication and networking



<sup>&</sup>lt;sup>i</sup> Capacity building for Quality Networks implementation and sustainability

<sup>&</sup>lt;sup>ii</sup> Development of a common curriculum, including learning outcomes, training plan and learning materials

iii Image source: https://www.pexels.com/pt-br/foto/teia-de-aranha-34225/

<sup>&</sup>lt;sup>iv</sup> Image source: <u>https://www.pexels.com/pt-br/foto/vista-de-baixo-angulo-da-escada-em-espiral-contra-um-fundo-preto-247676/</u>

<sup>&</sup>lt;sup>v</sup> Image source: <u>https://www.pexels.com/pt-br/foto/arte-abstrata-cinza-e-preta-35543/</u>

<sup>&</sup>lt;sup>vi</sup> Image source: <u>https://www.pexels.com/pt-br/foto/papel-de-parede-de-escadas-brancas-434645/</u>

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<sup>&</sup>lt;sup>ix</sup> Image source: <u>https://www.pexels.com/pt-br/foto/teto-redondo-preto-e-branco-3568360/</u>