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WORKSHOP

AGREEMENT

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e-Competence Framework for ICT Users - Part 1: Framework Content

This CEN Workshop Agreement has been drafted and approved by a Workshop of representatives of interested parties, the constitution of which is indicated in the foreword of this Workshop Agreement.

The formal process followed by the Workshop in the development of this Workshop Agreement has been endorsed by the National Members of CEN but neither the National Members of CEN nor the CEN-CENELEC Management Centre can be held accountable for the technical content of this CEN Workshop Agreement or possible conflicts with standards or legislation.

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Foreword

This CEN Workshop Agreement has been drafted and approved by a Workshop of representatives of interested parties on 2013-05-06, the constitution of which was supported by CEN following the public call for participation made on 2011-10-04.

A list of the individuals and organizations in the ICT field which supported the technical consensus represented by the CEN Workshop Agreement is available to purchasers from the CEN-CENELEC Management Centre. These organizations are as follows:

- (ISC)2
- AICA
- CEPIS
- CIGREF
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- ECDL Foundation
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The final review/endorsement round for this CWA was started on 2013-01-23 and was successfully closed on 2013-05-07. The final text of this CWA was submitted to CEN for publication on 2013-08-01.

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Comments or suggestions from the users of the CEN Workshop Agreement are welcome and should be addressed to the CEN-CENELEC Management Centre.

Introduction

The aim of the e-Competence Framework for ICT Users project is to develop and validate a framework shell and populate the framework with an initial five e-Competence Areas with the assistance of project-created framework development guidelines.

The following document outlines the details of five e-Competence Areas, developed as a core element of this CEN Workshop Agreement. An associated development guidelines document outlining the process used to create the framework is also available to gain further understanding of the framework and/or to create additional framework content. In addition, a user guidelines document has been created to assist potential framework users in understand and using the framework.

The e-Competence Framework for ICT Users ranges in depth from foundation to advanced proficiency levels, and can range in breadth from common, generic software domains to specialised technology domains, thus having the potential to provide a complete coverage of ICT user proficiency levels and domains.

1 The Framework Shell – Understanding the Construct

The e-Competence Framework for ICT Users is structured using four dimensions, adopting the "dimension" terminology used by the e-Competence Framework for ICT Professionals¹. This intentional reuse of terminology will assist in leading to a more consistent approach to framework development, assist users (e.g. a Human Resource function) of both frameworks in getting to grips with each framework and offer the potential for a consistent approach which could in the future be extended to create a similar framework for e-Business / e-Leadership, the third e-Skills category as defined by the European e-Skills Forum in 2004.

The four dimensions reflect different levels of ICT user e-competence requirements and are specified as follows:

Dimension 1: Five ICT User e-Competence areas have been developed in this particular project. These areas were selected based on survey feedback from the previous framework requirements project and are derived from commonly used ICT office productivity applications:

- Word Processing
- Spreadsheets
- Presentation
- Communications²
- Web Browsing and Information Search³

NOTE It is important to note that this project in itself will not result in an exhaustive framework of all ICT user e-competences. The framework is explicitly designed to be expanded to include further ICT user competence areas in the future.

A generic description of each ICT User e-Competence area is also provided.

Dimension 2: A set of ICT User e-Competences are provided for each area, with a generic description for each competence. These competences provide the European generic reference definitions of the ICT User e-Competence Framework. Where a competence is shared across various e-Competence Areas, the project team have looked to reuse the same competence wording where possible.

Dimension 3: This sets out the proficiency levels from Foundation to Advanced for each ICT User e-Competence. These in turn *relate* to EQF levels 1 to 4 for the majority of end user e-competences in the framework. This mapping is explored in further detail in Section 2.4 of the development guidelines.

Dimension 4: Samples are provided of knowledge and skills that relate to the ICT User e-Competences set out in dimension 2. They are provided to add value and context and are not intended to be exhaustive. The knowledge and skills example are also organised into groups.

The framework adopts a similar approach as the existing e-Competence Framework for IT Professionals in that while competence definitions are explicitly assigned to dimension 2 and 3 and knowledge and skills samples appear in dimension 4 of the framework, attitudes are embedded in all three dimensions. In essence this means that the wording of dimensions 2 - 4 contains references (sometimes explicit or sometimes subtle) of attitudes (See Development Guidelines: Section 2.6 and Appendix 3).

¹ See <u>http://www.ecompetences.eu/</u> for further details.

² Initially named "e-Mail" but renamed following CEN Plenary input to allow for a broader coverage of communication methods (such as SMS, MMS, IM etc).

³ Expanded to include "...and Information Search" to give sufficient weight to the search.

2 e-Competence Framework for ICT Users - Overview

The following is an overview of the framework showing Dimensions 1 to 3. Full details of the framework for the five ICT User e-Competence Areas developed for the project (including Dimension 4) are contained in the following sections.

Dimension 1	Dimension 2	Dimension 3		
ICT User e-Competence Area	ICT User Competence	Proficiency Levels		
		Foundation	Intermediate	Advanced
Word Processing	Document Creation			
	Content Organisation			
	Document Collaboration and Interaction			
	Document Automation			
	Document Output and Storage			
Web Browsing and Information Search	Using the Browser			
	Online Search			
	Security			
	Online Awareness			
	Information Assessment			
	Online Services			
	Information Sharing			
Communications	User Configuration			
	Security			
	Information Exchange via e- Mail			
	Contact Creation and Organisation			
	Scheduling			
	Online Collaboration and Social Interaction			
Spreadsheets	Workbooks and Worksheet Creation			
	Formulas and Functions			
	Use and Apply Charts and Graphs			
	Data Analysis and Organisation			

	Spreadsheet Output and Storage		
Presentation	Presentation Creation		
	Content Organisation		
	Use of Graphic and Multimedia Effects		
	Presentation Delivery and Storage		
Competence Area 6	[Future project]		
Competence Area 7	[Future project]		
Etc.	[Future project]		

3 e-Competence Framework for ICT Users - Content

3.1 Word Processing

Dimension 1 ICT User e-Competence Area	Word Processing Creating structured and formatted content, using referencing, and features for collaboration, mail merge and security, as well as being able to store and create outputs.		
Dimension 2 ICT User e-Competence	Document Creation Create documents for work or social (home/recreational) use. Navigate the interface confidently and select and use common tools appropriately. Create, format and edit document content to create suitable documents for your chosen purpose. Create and edit illustrations to enhance documents and communicate visually.		
Dimension 3 ICT User e-Competence	Foundation	Intermediate	Advanced
Proficiency Levels	Uses input tools to create simple documents accurately and perform simple formatting and editing with some guidance.	Plan the content of a document. Use input tools to create and manipulate text accurately and utilise appropriate formatting and editing features to deliver quality outputs.	Plan the content of a complex document. Create and manipulate text accurately and efficiently. Confidently use advanced formatting and editing features to communicate information effectively.
Dimension 4			
Knowledge Examples		Skills Examples	
Use the Interface and K1 Understand the ma user interface (toolbars available common app K2 Understand that ke	in components of the graphical	Typically, individuals will display skills including: Use the Interface and Common Tools S1 Navigate around the graphical user interface and use common tools (help, zoom, find). S2 Use available window features (new window, split, hide/unhide).	
Create and Format Content K1 Understand methods to input data in a word processor (keyboard, speech recognition, mouse). K2 Understand how to plan a structured document. K3 Understand the importance of appropriate presentation to visually enhance the content in a document. Edit Content K1 Understand the main editing functions available in the word processor. K2 Understand that content can be edited and/or modified.		 Create and Format Content S1 Enter text, symbols, special characters in a word processing document using preferred methods to input data. S2 Format text using bold, italic, underline, colours, highlighting and styles. Edit Content S1 Edit and delete text in a word processing document. S2 Use copy, paste, and paste special feature to move content within and between documents. S3 Use the find and replace feature. 	
K3 Understand that condifferent purposes.	ntent can be selected for		

1	Create and Edit Illustrations	Create and Edit Illustrations	l
	K1 Understand the options available for	S1 Use images, graphics, illustrations into a document.	
	including/creating illustrations/images and adding	S2 Modify the properties of an image, graphic,	
	them to the text.	illustration (size, text wrapping, proportions).	
	K2 Understand the legal implications for using certain	S3 Create and use diagrams and shapes in a document.	
	illustrations/images.		
	K3 Understand ways to modify illustrations/images.		
	NOTE: This is a non-exhaustive list of examples.	NOTE: This is a non-exhaustive list of examples.	
			L

Dimension 1	Word Processing			
ICT User	Creating structured and formatted content, using referencing, and features for			
e-Competence Area	collaboration, mail merge and security, as well as being able to store and create outputs.			
Dimension 2 ICT User e-Competence	Content Organisation Organise document content to ensure a logical structure. Use templates, tables, headers and footers to logically structure a document. Use appropriate referencing to cite sources and assist readers in understanding content. Link to and embed content from other sources to enhance a document.			
Dimension 3 ICT User e-Competence	Foundation	Intermediate	Advanced	
Proficiency Levels	Organise a simple document positively, with some guidance.	Actively plan and organise the content of a document with an awareness of its purpose. Use referencing to cite sources accurately and utilise links appropriately to refer to other content.	Confidently plan and organise the content of a complex document to meet the needs of the target audience. Use cross referencing and create reference pages. Utilise embedding to improve efficiency and reuse data from other sources.	
Dimension 4				
Knowledge Examples	<u> </u>	Skills Examples		
Typically, individuals w	ill display knowledge including:	Typically, individuals will display skills including:		
 Structure and Layout Content K1 Understand and recognise the structural elements of a document (headings, indexes, tables). K2 Understand how to select a suitable structure and layout for a document recipient. Use Referencing K1 Understand the importance of referencing and benefits of using referencing features in documents. K2 Recognise different referencing options (footnote, endnote, citation, table, figure). 		 Structure and Layout Content S1 Create and use page breaks and sections to structure a document. S2 Create and use headers, footers and tables to structure content. S3 Use themes, templates to structure a document. S4 Use a master and sub documents for structuring complex documents. Use Referencing S1 Create and use footnotes, endnotes and captions in a document. S2 Create a table of contents, figures, index and a reference page/bibliography. S3 Use cross referencing in complex documents. 		
from other sources. K2 Understand the diffe	tent pe of information can be used erences between links and and the benefits of their use.	Link and Embed Content S1 Create and use hyperlin link to other sources. S2 Embed content to integ in a document (spreadshee	nks within a document or to rate data from other sources	
	chaustive list of examples.	S3 Edit embedded data and update linked data. NOTE: This is a non-exhaustive list of examples.		

Dimension 1 ICT User e-Competence Area	Word Processing Creating structured and formatted content, using referencing, and features for collaboration, mail merge and security, as well as being able to store and create outputs.			
Dimension 2 ICT User e-Competence	Document Collaboration and Interaction Collaborate effectively with documents by using features like comments, change tracking and document comparisons. Set and edit a shared document to allow for multi-user online collaboration. Create a structured form using appropriate fields to gather feedback.			
Dimension 3 ICT User e-Competence	Foundation	Intermediate	Advanced	
Proficiency Levels	Carry out proof reading positively and fix simple format and content errors. Complete a simple form.	Actively contribute to collaborating on and reviewing a document. Complete a detailed form accurately.	Use experience to confidently lead a document collaboration and review, managing document changes. Plan and create a form to gather required information.	
Dimension 4				
Knowledge Examples		Skills Examples		
Typically, individuals w	ill display knowledge including:	Typically, individuals will display skills including:		
document, and underst quality check.	ortance of proof reading a and the process to carry out a ilable features to assist nents (track changes,	Collaborate and Review C S1 Proof read a document, checks and automatic corre- errors. S2 Use track changes and S3 Use features to compar S4 Setup and collaborate c	use spelling/grammar ection features to correct comments in a document. e documents.	
Create and Use Forms K1 Understand the benefit of planning the structure and layout of a form. K2 Understand the main types of form fields available and their uses. K3 Understand what kind of content optimises the use of a form.		Create and Use Forms S1 Use a form to enter information. S2 Create a form using available options.		
NOTE: This is a non-e	xhaustive list of examples.	NOTE: This is a non-exhau	stive list of examples.	

Dimension 1 ICT User e-Competence Area	Word Processing Creating structured and formatted content, using referencing, and features for collaboration, mail merge and security, as well as being able to store and create outputs.			
Dimension 2 ICT User e-Competence	Document Automation Use mail merge to automate the creation of multiple items like letters, labels and envelopes. Create and edit recipient lists effectively to ensure accurate outputs are created. Use automation features like fields in documents to populate content automatically. Record and use macros to improve efficiency by automating recurring processes.			
Dimension 3 ICT User e-Competence	Foundation	Intermediate	Advanced	
Proficiency Levels	N/A	Accurately recognise opportunities to use automation features. Prepare and execute a mail merge based on existing information. Use common automated fields.	Creatively maximise the use of automation features. Prepare and execute complex mail merges. Exploit opportunities to create and use macros to improve efficiency.	
Dimension 4				
Knowledge Examples		Skills Examples		
	ill display knowledge including:		Typically, individuals will display skills including:	
a variety of outputs like	cept of a mail merge to create letters, labels, envelopes. es of source files that can used	Use Mail Merge S1 Prepare a document to u select the recipient list. S2 Use rules in a mail merg S3 Execute a mail merge to labels, envelopes.	je.	
Use Automation K1 Understand the benefits of using automatic fields in a word processing application. K2 Understand the benefits of using macros in a word processing application.		Use AutomationS1 Insert and format automatic page numbers.S2 Use fields to populate content like filenames andd dates.S3 Record and use macros to automate recurringprocesses.		
NOTE: This is a non-e	chaustive list of examples.	NOTE: This is a non-exhau	stive list of examples.	

Dimension 1 ICT User e-Competence Area	Word Processing Creating structured and formatted content, using referencing, and features for collaboration, mail merge and security, as well as being able to store and create outputs.			
Dimension 2 ICT User e-Competence	Document Output and Storage Maximise content security by using application security features and appreciate the benefits of taking a pro-active approach to securing documents. Create appropriate printed document outputs for an audience. Store documents in suitable location(s) for your needs using appropriate filenames and choosing appropriate save options.			
Dimension 3 ICT User e-Competence	Foundation	Intermediate	Advanced	
Proficiency Levels	Use pre-set features positively to save or print a simple document.	Appreciate security risks associated with documents. Save and store documents in a variety of locations and in different file types. Print detailed documents.	Confidently use security features to protect and secure documents. Print complex documents to create appropriate outputs for a target audience and support less experienced users with simple print queries.	
Dimension 4				
Knowledge Examples	I	Skills Examples	Skills Examples	
Typically, individuals w	ill display knowledge including:	Typically, individuals will display skills including:		
Use Document and Content Security K1 Understand the importance of protecting and securing documents. K2 Understand the benefits of digitally signing a document.		Use Document and Content Security S1 Use available password protection, encryption features for documents. S2 Use available digital signature features for documents.		
Generate Outputs and Store Content K1 Understand the importance of having an organised approach to saving files. K2 Understand the advantages and disadvantages of storing files locally and/or remotely. K3 Understand the importance of checking a print preview before printing.		Generate Outputs and Store ContentS1 Save a document in various formats using an appropriate filename.S2 Print preview a document, adjust print settings and print.S3 Use an online storage location to save and/or backup documents.		
NOTE: This is a non-exhaustive list of examples. NOTE: This is a non-exhaustive list of examples. See Also: Spreadsheets (Spreadsheet Output and Storage), Presentation (Interpretent output and Storage)			stive list of examples. ation Delivery and Storage)	

3.2 Web Browsing and Information Search

Dimension 1 ICT User e-Competence Area	Web Browsing and Information Search Using the Internet for information sourcing, information sharing or using online services in the World Wide Web.		
Dimension 2 ICT User e-Competence	browser preferences and con preferences and security nee common tools and shortcuts to organise and manage regular Be familiar with a variety of in	formation content types. Store ormation appropriately in othe	e browser according to own er user interface. Use bookmarks and toolbars to files in a local or remote
Dimension 3	Foundation	Intermediate	Advanced
ICT User			
e-Competence Proficiency Levels	Use web browser positively to perform basic navigation actions to browse the content from information sources.	Accurately uses browser user interface and common tools to aid web browser navigation. Organise web browser workspace to perform web navigation efficiently.	Confidently uses web browser to perform complex navigation actions. Use browser user interface and common tools to resolve unpredictable cases. Configure web browser settings, plug-ins and toolbars.
Dimension 4			
Knowledge Examples		Skills Examples	
Typically, individuals w	ill display knowledge including:	Typically, individuals will display skills including:	
 Web Navigation K1 Understand the concepts of a URL and a web link. K2 Understand that navigation is a flow of visited web pages which are linked together. K3 Describe common errors messages that occur while browsing: "not found", "forbidden", "unauthorised". Browser Settings and Preferences K1 Understand the purpose of browser settings. K2 Describe what pop-up windows and cookies are. K3 Understand that browsers can use third party software which may impact on performance. Browser User Interface and Common Tools K1 Recognise the main components of the graphical user interface (toolbars, menus, ribbons). K2 Understand that common tools are available in applications (help, zoom, find). 		Web Navigation S1 Activate a hyperlink. S2 Navigate backwards and web pages and refresh a we S3 Display previously visite history.	eb page.
		Browser Settings and Pre S1 Set a default browser. S2 Configure web browser S3 Manage browser history	settings.
		Browser User Interface an S1 Navigate around the gra select options. S2 Use common tools (help S3 Use common keyboard combinations to carry out ar	phical user interface and o, zoom, find). shortcuts and key

Workspace K1 Understand how customisation can comply with your needs in browsing (shortcuts, bookmarks). K2 Understand the role and uses of toolbars. K3 Understand how some webpages allow customisation.	Workspace S1 Add, remove, create, delete a bookmark, bookmark folder. S2 Display, hide built-in toolbars. S3 Organise and configure webpages according to own preferences, if option is available.
 Web Interaction and Outputs K1 Understand the main principles of downloading and saving a file. K2 Understand that information content can be accessed directly in browser or by a particular application. K3 Recognise opportunities to post or publish material to a web page. 	Web Interaction and Outputs S1 Download, print files from a web page. Upload content to a remote location (cloud/offsite storage). S2 Open and edit content using a browser. S3 Complete and submit a web-based form (using text boxes, drop-down menus, radio buttons).
NOTE: This is a non-exhaustive list of examples.	NOTE: This is a non-exhaustive list of examples.

Dimension 1 ICT User e-Competence Area Dimension 2	Web Browsing and Information Search Using the Internet for information sourcing, information sharing or using online services in the World Wide Web. Online Search			
ICT User e-Competence	Understand and identify search concepts and be aware of online media available to search. Carry out searches using appropriate keywords. Identify logical relationships between keywords and refine searches when required. Understand the search options available and utilise an appropriate search engine taking into account search engine scope, efficiency and outputs.			
Dimension 3 ICT User e-Competence	Foundation	Intermediate	Advanced	
Proficiency Levels	Accurately understand the principle of an online search. Formulate and enter simple search queries to obtain a search result.	Pro-actively evaluate results and refine searches iteratively to obtain more precise information. Use a variety of search engines for a search task.	Confidently formulate and enter complex search queries to maximise search result quality. Identify logical relationships between keywords in the context of the search action. Select an appropriate search engine for a task to maximize search quality and assist others in applying appropriate search tools and techniques.	
Dimension 4				
Knowledge Examples		Skills Examples		
Search Technique K1 Understand what a	ill display knowledge including: search is and know search	Typically, individuals will display skills including: Search Technique S1 Formulate and enter a search query on a web page.		
concept identification (r the keyword).	ortance of proper search mapping of desired search to rms of media can be searched	S2 Use search features to i phrase, by excluding words S3 Refine a search iterative previous search queries.	s, by date, by file format).	
 Search Engine K1 Describe what a search engine is. K2 Understand the characteristics and scope of different search engines. K3 Understand syntax and operators of the query language (phrase search, search within specific website, terms to be excluded). 		Search Engine S1 Select a specific search encyclopaedia, dictionary) a S2 Use file format/type to re S3 Use search engine synt search results.	and search.	
NOTE: This is a non-ex	khaustive list of examples.	NOTE: This is a non-exhau	stive list of examples.	

Web Browsing and Information Search Using the Internet for information sourcing, information sharing or using online services in the World Wide Web.		
Foundation	Intermediate	Advanced
Browse web content carefully, being aware of security risks to personal data and own device.	Accurately browse web content, setting appropriate filtering and application security settings to protect personal data and devices.	Act pro-actively to ensure the security of personal data and devices. Verify digital certificates of website when entering confidential data.
	Skills Examples	
ill display knowledge including:	Typically, individuals will dis	splay skills including:
Security K1 Understand the risks of using personal and sensitive data. K2 Recognise web security threats (malware, viruses, worms, spyware). K3 Describe what a digital certificate and a secure website is. NOTE: This is a non-exhaustive list of examples.		vebsites. s when entering confidential vices when using a shared g that previously stored eted.
	Using the Internet for informa in the World Wide Web. Security Act pro-actively to ensure the actions to reduce security risk level. Foundation Browse web content carefully, being aware of security risks to personal data and own device. Il display knowledge including: s of using personal and urity threats (malware, viruses, ital certificate and a secure	Using the Internet for information sourcing, information shar in the World Wide Web. Security Act pro-actively to ensure the security of personal data and actions to reduce security risks. Configure browser settings level. Foundation Intermediate Browse web content carefully, being aware of security risks to personal data and own device. Accurately browse web content, setting appropriate filtering and application security settings to protect personal data and devices. Skills Examples Il display knowledge including: s of using personal and urity threats (malware, viruses, ital certificate and a secure State and a secure Intermediate State and a secure State and

Dimension 1 ICT User e-Competence Area	Web Browsing and Information Search Using the Internet for information sourcing, information sharing or using online services in the World Wide Web.		
Dimension 2 ICT User e-Competence	Information Assessment Critically assess and appropriately use web-based resources. Perform resource evaluations based on identified criteria for sourcing valuable information. Evaluate content of web-based resource against other references, your own acquired knowledge and the views of others.		
Dimension 3 ICT User e-Competence	Foundation	Intermediate	Advanced
Proficiency Levels	N/A	Accurately assesses the content of web-based resources against other references.	Confidently identifies criteria for assessing web- based resources. Critically assess the content of web- based resources against multiple reference points and previous acquired knowledge.
Dimension 4			
Knowledge Examples		Skills Examples	
Typically, individuals will display knowledge including: Information Assessment K1 Recognise that the web consists of both reliable and unreliable information/sources. K2 Describe how web based resources can be created (audio, video, web editing applications). K3 Understand the consequences of using unreliable information/sources.		Information Assessment S1 Assess web-based resources using identified criteria. S2 Assess the track of records of an information publisher and compare sourced information with other available sources.	
NOTE: This is a non-ex	khaustive list of examples.	NOTE: This is a non-exhau	stive list of examples.

Dimension 1 ICT User e-Competence Area Dimension 2 ICT User e-Competence	Web Browsing and Information Search Using the Internet for information sourcing, information sharing or using online services in the World Wide Web. Online Services Uses appropriate online services effectively in personal, social and work life to achieve a goal and reduce human effort.		
Dimension 3 ICT User e-Competence	Foundation	Intermediate	Advanced
Proficiency Levels	Intuitively use online services occasionally to browse content.	Accurately register for and use online services frequently to browse content and interact for personal, social or work life.	Use online services confidently to browse content and interact with other to reduce effort in personal, social and work life.
Dimension 4			
Knowledge Examples		Skills Examples	
Typically, individuals w	ill display knowledge including:	Typically, individuals will dis	splay skills including:
Online Services K1 Recognise service providers for various online services. K2 Understand the benefits and limitations of storing data remotely.		Online ServicesS1 Choose, browse and register for suitable online services (news, government, consumer, travel, education/training, employment, health, business).S2 Request information from an online service (using query form, email, IM).S3 Use various devices to access application deployed remotely by thin clients (web browser, mobile application).	
NOTE: This is a non-e	khaustive list of examples.	NOTE: This is a non-exhau	stive list of examples.

Dimension 1 ICT User e-Competence Area	Web Browsing and Information Search Using the Internet for information sourcing, information sharing or using online services in the World Wide Web.			
Dimension 2 ICT User e-Competence	Information Sharing Actively share information wir information sources.	th others and engage others to	o contribute to these	
Dimension 3 ICT User e-Competence	Foundation	Intermediate	Advanced	
Proficiency Levels	Share information with others taking limited responsibility for consequences. Act lawfully browsing the web being aware of copyright and licences and behave according to the ethical standards.	Actively shares information with others taking full responsibility and consequences.	Pro-actively shares information with others and engage others to contribute to the sources. Utilise software and infrastructure to maximise accessibility regardless of location or device.	
Dimension 4				
Knowledge Examples		Skills Examples	Skills Examples	
Typically, individuals will display knowledge including:		Typically, individuals will display skills including:		
Information SharingK1 Describe how to share/upload information sources with others.K2 Recognise common sharing tools (discussion forums, community groups, interest groups, wikis).K3 Understand the consequences of information sharing.		Organise workspace to make valuable content accessible easily for the user and for others.		
NOTE: This is a non-e:	xhaustive list of examples.	NOTE: This is a non-exhau	stive list of examples.	
See Also: Communica	tions (Online Collaboration and	l Social Interaction)		

3.3 Communications

Dimension 1 ICT User e-Competence Area	Communications Use and management of e-mail/messaging, use of calendars, using social networks, blogs and instant messaging tools and devices.		
Dimension 2 ICT User e-Competence	User Configuration Be familiar with different communications options available on the Internet. Actively set up accounts to use suitable communication services, and customise the different tools effectively to meet user needs.		-
Dimension 3 ICT User e-Competence	Foundation	Intermediate	Advanced
Proficiency Levels	Understand the principles of web communication. Set up a standard account to access communication services. Find contacts to communicate with, and use default communications service skins and templates.	Accurately sets up accounts to access communication services and change settings to adapt them to own needs. Use existing skins and templates to customise communication services.	Confidently evaluate and choose suitable communication services for personal or company needs. Set up environments for the different services, by creating specific skins and templates. Set up specific tools for comment management in a communication service.
Dimension 4			
Knowledge Examples		Skills Examples	
Typically, individuals w	ill display knowledge including:	Typically, individuals will display skills including:	
Account Setup K1 Understand that communication can be carried out towards single, specific targets (e-Mail, IM or chat, SMS, VoIP communications) and towards multiple targets (blog, microblogging, social networks, streaming). Understand that an account is necessary to access the different services. K2 Recognise that communication can be interactive (chat, e-mail, VoIP) or non-interactive (audio and video streaming). K3 Recognise that communication can occur in real- time or non-real-time depending on service type, network quality.		 S2 Set up a communication service: add contacts, linking accounts of different services. S3 Customise the communication service: define templates for blogs and social networks, set up comments, notifications mechanism. 	
NOTE: This is a non-ex	chaustive list of examples.	NOTE: This is a non-exhau	stive list of examples.

-	Communications Use and management of e-mail/messaging, use of calendars, using social networks, blogs and instant messaging tools and devices.		
ICT User e-Competence	•	security of personal data and s. Configure applications setti	-
Dimension 3 ICT User e-Competence	Foundation	Intermediate	Advanced
Proficiency Levels	Use communication services carefully, being aware of security risks to personal data and device.	Accurately use communication services, setting appropriate filtering and application security settings to protect personal data and devices.	Act pro-actively to ensure the security of personal data and devices. Verify digital signatures of e-mail messages and recognise security risks before carrying out any action on received messages.
Dimension 4			
Knowledge Examples Skills Examples			
Typically, individuals will display knowledge including: Risks Using Communication Tools K1 Recognise the security risks associated to e- mails, instant messaging: viruses, phishing. K2 Describe how personal security and identification can be attained: encryption, digital signature. K3 Recognise possible risks associated with information posted to a blog, a social network: personal information disclosure, personal security issues, political ideas and faith disclosure. NOTE: <i>This is a non-exhaustive list of examples.</i> See Also: Web Browsing and Information Search (Sec		an e-mail message. S3 Generate and use an er drives, secure connections. S4 Set up security and priva messenger, blog, social net NOTE: This is a non-exhau	ion Tools for e-mail. tal signature to digitally sign acryption key to encrypt files, acy settings for instant work environments.

Dimension 1 ICT User e-Competence Area	Communications Use and management of e-mail/messaging, use of calendars, using social networks, blogs and instant messaging tools and devices.		
Dimension 2 ICT User e-Competence	Know how to use efficiently th	concepts and customisation of ne user interface and common e-mail messages to different r	tools of an e-mail
Dimension 3 ICT User e-Competence	Foundation	Intermediate	Advanced
Proficiency Levels	Actively use e-mail applications to perform simple message creation and incoming messages management.	Use available e-mail application tools efficiently to compose messages, set up a signature, set up a spam filter for incoming messages, create a simple search on messages.	Confidently use specific tools available in e-mail applications to efficiently automate incoming messages filtering, set up automatic responses, perform complex search on archived messages.
Dimension 4			•
Knowledge Examples		Skills Examples	
Typically, individuals w	ill display knowledge including:	Typically, individuals will dis	splay skills including:
mail account. K2 Recognise the mak address. K3 Describe how the m works.	references ts and risks of having an e- e-up and structure of an e-mail nechanism of mail delivery coptions available to access e-	e-mail Settings and Prefe S1 Set up e-mail signatures S2 Customise e-mail applic it suitable to own needs. S3 Use webmail, mobile de remotely.	s, out of office features. ation user interface to make
user interface (toolbars	n components of the graphical s, menus, ribbons). mmon tools are available in	e-mail User Interface and S1 Navigate around the gra select options. S2 Use common tools (help S3 Use common keyboard combinations to carry out a	aphical user interface and o, zoom, find). shortcuts and key
applied to the preparat K2 Understand when to	ncept of network etiquette ion of an e-mail message. o use the Cc and BCc options. ed to use of spell checking	Message Creation and De S1 Compose a message ar Cc, BCc. S2 Reply to/forward a mess S3 Attach a file to an e-mai S4 Select recipients from co	nd send it directly or using sage. I message.
Messages Manageme K1 Describe the benefi	ent ts of using archive features for	Messages Management S1 Read, manage, organis	e and store e-mail messages

messages, attachments.	effectively, in order to avoid losing information.
K2 Recognise the characteristics of a spam, phishing	S2 Use e-mail tools and techniques to automate
message.	responses.
K3 Recognise that e-mail software has a spam filter	S3 Delete e-mail messages.
that can be activated to automatically recognise spam	S4 Set up a filter to automatically organise incoming
messages.	messages in e-mail software.
NOTE: This is a non-exhaustive list of examples.	NOTE: This is a non-exhaustive list of examples.

Dimension 1 ICT User e-Competence Area	Communications Use and management of e-mail/messaging, use of calendars, using social networks, blogs and instant messaging tools and devices.		
Dimension 2 ICT User	Contact Creation and Organisation		
e-Competence	Active understanding of how	to manage the different contac	ts and their personal data.
	Organise and update contact	s data on different devices.	
Dimension 3 ICT User e-Competence	Foundation	Intermediate	Advanced
Proficiency Levels	Actively add new contacts, prepare simple lists and edit contacts' data. Understand that contacts data should be managed responsibly.	Organise contacts' lists accurately, synchronise contacts on different devices. Understand the responsibilities involved in sharing contacts with others.	Import/export contacts' lists confidently from/to other applications; understand that different applications may need contacts' lists in different formats.
Dimension 4		I	I
Knowledge Examples		Skills Examples	
Typically, individuals w	ill display knowledge including:	Typically, individuals will dis	splay skills including:
managed responsibly. K2 Recognise that con different lists or groups	ntacts personal data should be tacts can be organised in	S2 Create and modify conta	ete contacts information.
Update and Synchror K1 Understand the imp organised and up to da K2 Understand that it is	oortance of keeping contacts	Update and Synchronise S1 Import and export conta applications (e-mail, phone S2 Synchronise contacts of S3 Share contacts with othe	, SMS…). n different devices.
NOTE: This is a non-e:	xhaustive list of examples.	NOTE: This is a non-exhau	stive list of examples.
See Also: Word Proce (Contact Creation and	essing (Content Organisation), I	Presentations (Content Organia	sation), Communications

Dimension 1 ICT User e-Competence Area	Communications Use and management of e-mail/messaging, use of calendars, using social networks, blogs and instant messaging tools and devices.		
Dimension 2 ICT User e-Competence		ndar is both useful and conver ntly and keep it updated over c	0 01
Dimension 3 ICT User e-Competence	Foundation	Intermediate	Advanced
Proficiency Levels	Manage simple calendar events. Be able to answer to an event invitation and add the event to own calendar.	Synchronise calendars accurately between different devices. Share calendars with other persons. Create tasks in a calendar.	Manage calendar tasks confidently. Import, export calendar events, tasks.
Dimension 4			1
Knowledge Examples		Skills Examples	
Using Calendars K1 Understand that a c computer or available of	endars can be shared to	Typically, individuals will dis Using Calendars S1 Create, edit, and delete recurring appointments. S2 Answer an event invitati S3 Synchronise a calendar (computer, tablet, smartpho S4 Import, export calendar	calendar entries; arrange on. between different devices one).
Calendar and Task Ma K1 Understand how pri setting targets for comp	oritising activities can help in	Calendar and Task Manag S1 Create, edit, and delete S2 Organise tasks in task li completion. S3 Use websites services to calendar.	tasks. ists and set targets for
NOTE: This is a non-ex	xhaustive list of examples.	NOTE: This is a non-exhau	stive list of examples.

Dimension 1 ICT User e-Competence Area	Communications Use and management of e-mail/messaging, use of calendars, using social networks, blogs and instant messaging tools and devices.		
Dimension 2 ICT User e-Competence	Online Collaboration and Social Interaction Be familiar with the idea that it is possible to interact on the web with known and unknown persons. Be able to actively use social and collaborative tools and devices aimed at a better		evices aimed at a better
Dimension 3 ICT User	Foundation	(IM, online meetings, blogs, so	Advanced
e-Competence Proficiency Levels	Know different ways to communicate appropriately using internet services. Create and send simple messages via different services. Compose simple comments to answer posts on a blog, or messages on a social network.	Connect to an online meeting service positively. Compose messages for a social network or posts for a blog with complex content. Understand the copyright associated to multimedia material shared on the web.	Set up an online meeting confidently; share material and computer desktop with the other online meeting participants. Set up confidently preferences for managing comments received for a blog post.
Dimension 4			
Knowledge Examples	I	Skills Examples	
Instant Message Serv K1 Describe the charac MMS, VoIP, and how th K2 Recognise that mar via SMS (weather warr	ny services are available also	Typically, individuals will dis Instant Message Services S1 Send and receive instant VoIP). S2 Compose SMS messag S3 Send additional materia MMS or during instant mess	and Applications at messages (IM, MMS, es using available tools. I (pictures, documents) as
service is appropriate. K2 Understand how to meeting services to the	e use of an online meeting choose suitable online e participants needs (maximum participants, possibility to use	Online Meetings S1 Setup and start an onlin S2 Activate the webcam du S3 Show the computer des	ring a conference.
Blogging K1 Describe what a blog is, and the type of content it may present (personal online diary, corporate information, political commentaries, training material). K2 Recognise possible legal and social consequences associated to blogging.		Blogging S1 Write and format a new S2 Add images and links to S3 Comment on a post in a S4 Accept, decline commer	a post. blog using different devices.
Social networking K1 Describe the etique behave in a social netv	tte required to correctly vork.	Social networking S1 Prepare and post a mes S2 Manage own connectior	-

K2 Understand social network utility and rules. K3 Recognise when the use of geolocation tools to share own location on the social network is appropriate.	groups). S3 Share comments, pictures, files on a social network.
NOTE: This is a non-exhaustive list of examples.	NOTE: This is a non-exhaustive list of examples.
See Also: Web Browsing and Information Search (Info	rmation Sharing)

3.4 Spreadsheets

Dimension 1 ICT User e-Competence Area Dimension 2 ICT User e-Competence Dimension 3 ICT User	Spreadsheets Creating and modifying workbooks, setting up and making use of formulas/macros, presenting data visually, organising and analysing data.Workbooks and Worksheets CreationInteract with the spreadsheet interface by selecting and using appropriately common tools or setting up personal preferences. Create a workbook including a number of worksheets and entering different types of data in cells. Use different tools to format contents for a specific purpose. Link confidently contents from different cells and worksheets.FoundationIntermediateAdvanced		
e-Competence Proficiency Levels	Interact actively with the spreadsheet interface and use simple tools to create and format simple workbooks.	Plan the content of a spreadsheet accurately and use different formats of data in a worksheet to create a cohesive workbook.	Create and manage complex workbooks confidently, including several worksheets, by linking their different data and making use of complex formatting tools to deliver a high quality document.
Dimension 4			
Knowledge Examples		Skills Examples	
Typically, individuals will display knowledge including: Spreadsheet interface and users preferences K1 Understand the elements of the spreadsheet interface (workbook, worksheet, cell, row, columns) and be aware of the possibility to set up preferences. K2 Recognise that there are differences in the way the user interacts with a spreadsheet and another interface (copy/paste, delete, may work in a different way than they do in a word processing). K3 Understand that the user can decide to modify the default setting to create the preferred number of spreadsheets within a workbook.		Typically, individuals will display skills including: Spreadsheet interface and users preferences S1 Navigate through the user's interface and use the different available tools. S2 Freeze/unfreeze and hide/unhide a row or a column within a worksheet (to use as reference all the time). S3 Create a workbook making use of the existing templates if they suite user's needs.	
Create a workbook / worksheet K1 Understand that a workbook can include one or more worksheets. K2 Understand good practice using cells (enter one only sort of date per cell, avoid blank rows/columns)		Create a workbook / worksheet S1 Apply the appropriate commands to create a new workbook or an open an existing workbook. S2 Insert a new worksheet within a workbook. S3 Define and Set up the data type in a cell.	
K1 Understand the importance of planning content structure.S1 Enter the ty S2 Apply the re suitable comma S3 Format dataK2 Understand the possible formats that a cell could have (numbers, texts, dates, currencies).S1 Enter the ty S2 Apply the re suitable comma S3 Format data		Format content S1 Enter the type of data se S2 Apply the required forma suitable command in the me S3 Format data using bold, highlighting and styles.	at to a cell by using the enu.

Link and embed content	Link and embed content
K1 Understand the benefits of linking different worksheets.	S1 Identify and select the source and the destination worksheets before performing link.
K2 Know the rules and the tools to link different worksheets. K3 Understand that linking can be performed for	S2 Pre-format accordingly the destination cell in the destination worksheet (currency data, set the decimal places).
worksheets within one workbook or between different ones.	
NOTE: This is a non-exhaustive list of examples.	NOTE: This is a non-exhaustive list of examples.

Dimension 1 ICT User e-Competence Area	Spreadsheets Creating and modifying workbooks, setting up and making use of formulas/macros, presenting data visually, organising and analysing data.		
Dimension 2 ICT User e-Competence	Formulas and Functions Use the appropriate syntax to create and easily use formulas that a specific task or project requires. Access those functions that are already set by default and use them confidently.		
Dimension 3 ICT User e-Competence	Foundation	Intermediate	Advanced
Proficiency Levels	Use simple syntax actively to create a simple workbook including simple arithmetic formulas.	Plan the content of a workbook pro-actively using a range of formulas and some functions, where suitable.	Plan and create complex workbooks confidently by using and creating complex formulas and taking advantage of complex functions to enhance productivity.
Dimension 4			
Knowledge Examples		Skills Examples	
Typically, individuals will display knowledge including: Typically, individuals will display skills including:		splay skills including:	
Formulas K1 Understand the importance of the concept of "cell reference" (cell address) for the formulas set up. K2 Understand the syntax of creating different kind of formulas (use of the specific discriminator allowed by each spreadsheet). K3 Understand the common error messages produced by the spreadsheet in order to sort them out.		and division). S2 Use mixed references to formulas.	n, subtraction, multiplication o create specifically needed s from a cell to another and
Functions K1 Understand the different kind of functions already set by default by the spreadsheet and the ones that can be created. K2 Understand the specific importance of using the conditional function in some cases (using spreadsheets as a data base). NOTE: This is a non-exhaustive list of examples.		Functions S1 Use arithmetic functions S2 Use statistical functions	(countif, countblank, rank).

Dimension 1 ICT User	Spreadsheets Creating and modifying workbooks, setting up and making use of formulas/macros, presenting data visually, organising and analysing data.Use and Apply Charts and GraphsGenerate the appropriate charts/graphs related to an existing data series. Apply a new charts/graphs to the same data series. Manage and modify specific charts/graphs. 		
e-Competence Area			
Dimension 2 ICT User e-Competence			
Dimension 3 ICT User	Foundation	Intermediate	Advanced
e-Competence Proficiency Levels	Actively generate some types of charts/graphs from a simple data series and store them.	Create several types of charts/graphs accurately, from elaborated data and modify/format them.	For complex data series, confidently evaluate all charts/graphs types available and generate the most adequate ones. If not available, generate "Built- In-Custom" ones. Confidently interpret and export charts/graphs to different locations.
Dimension 4			
Knowledge Examples		Skills Examples	
Use Charts and graph K1 Describe the different charts already availabl benefits. K2 Understand how to	vill display knowledge including: hs ent "Built-In Custom" types of e in a spreadsheet and their interpret the produced chart. ferent types of sparklines that	Use Charts and graphs S1 Select the data series thave to be applied and cre combining the "Built-In Cu S2 Apply the type of chart need and audience.	to which the chart or graph eate a personalised chart by
Format charts and graphs K1 Recognise the different tools and methods available to format a chart. K2 Understand that hyperlinks embedded to a chart can be useful and add value. K3 Understand that an embedded chart can be copied from a position to another within the same worksheet or to a different one.		Format charts and graphs S1 Position, size and align embedded charts. S2 Chose and apply a style for the chart or graph. S3 Apply data labels to each wedge in a specific chart of graph and add/remove legends.	
Export charts and graphs K1 Understand that a chart can be exported to another workbook/worksheet and to another file (image file, presentation file). K2 Recognise that, in some spreadsheets, a chart		Export charts and graphs S1 Use tools and macros, when necessary, to export an embedded chart to another file (image file, presentation file). S2 Produce a chart using data exported from a text document.	

can be exported to another kind of files.	
NOTE: This is a non-exhaustive list of examples.	NOTE: This is a non-exhaustive list of examples.

Dimension 1 ICT User e-Competence Area	Spreadsheets Creating and modifying workbooks, setting up and making use of formulas/macros, presenting data visually, organising and analysing data.		
Dimension 2 ICT User e-Competence	-	and charts in order to address	
	Modify pivot tables and cha	rts views depending on needs. F	-liter and sort data.
Dimension 3 ICT User e-Competence	Foundation	Intermediate	Advanced
Proficiency Levels	N/A	Generate simple pivot tables/charts accurately and sort out errors that may occur during the process.	Plan and generate complex pivot tables/charts confidently and modify them to change views with ease, to obtain high quality analysis of data.
Dimension 4			I
Knowledge Examples		Skills Examples	
Typically, individuals v	vill display knowledge includin	g: Typically, individuals will dis	splay skills including:
a large table of data w K2 Understand that it i	Id pivot charts formation can be extracted fro ithout the use of formulas. s possible to view the same art, under different ways and	Using pivot tables and pixon S1 Create pivot tables and S2 Add and modify data in S3 Use "drag and drop" to number of different ways.	enter pivot table data. pivot table.
Filtering and sorting K1 Understand that or produced, filtering tool K2 Recognise the tool K3 Understand that in	ice pivot tables have been	Filtering and sorting data S1 Filter and sort data by c S2 Create a list and perform automatic filter. S3 Apply advanced filter op o	olumns. n either a manual or an
NOTE: This is a non-e	• • • •	NOTE: This is a non-exhau , Presentations (Content Organia	•

Dimension 1 ICT User e-Competence Area	Spreadsheets Creating and modifying workbooks, setting up and making use of formulas/macros, presenting data visually, organising and analysing data.		
Dimension 2 ICT User e-Competence	Spreadsheet Output and Storage Use appropriate ways (passwords, digital signature) to save and store spreadsheets content. Store spreadsheet files in different formats, as needed. Select the appropriate storage location (backup, external, internal). Set printing preferences and print spreadsheet contents.		
Dimension 3 ICT User e-Competence	Foundation	Intermediate	Advanced
Proficiency Levels	Actively save and/or print a simple worksheet or a full workbook.	Appreciate security risks associated with documents. Save and store documents accurately, in a variety of locations and in different file types. Print detailed documents.	Use security features confidently to protect and secure documents. Print complex documents to create appropriate outputs for a target audience and support less experienced users with simple print queries.
Dimension 4			
Knowledge Examples	Knowledge Examples Skills Examples		
Typically, individuals w	ill display knowledge including:	Typically, individuals will dis	splay skills including:
Use Spreadsheet and Content Security K1 Understand the importance of protecting and securing spreadsheets. K2 Understand the benefits of digitally signing a spreadsheet.		Use Spreadsheet and Con S1 Use available password features for spreadsheets. S2 Use available digital sign spreadsheets.	protection, encryption
Generate Outputs and Store Content K1 Understand the importance of having an organised approach to saving files. K2 Understand the advantages and disadvantages of storing files locally and/or remotely. K3 Understand the importance of checking a print preview before printing.		Generate Outputs and Store Content S1 Save a spreadsheet in various formats using an appropriate filename. S2 Print preview a spreadsheet, adjust print settings and print. S3 Use an online storage location to save and/or backup spreadsheets.	
NOTE: This is a non-e	khaustive list of examples.	NOTE: This is a non-exhau	stive list of examples.
See Also: Word Proce	ssing (Document Output and S	torage), Presentation (Present	ation Delivery and Storage)

3.5 Presentations

Dimension 1 ICT User e-Competence Area Dimension 2 ICT User e-Competence Dimension 3	Presentations Planning presentation information, adapting to the audience needs, structuring information, inclusion of content and interaction for engagement. Presentation Creation Create a presentation for professional or social use. Identify and confidently manage all the main features and functionalities of the user interface. Evaluate the audience expectation from a presentation and understand how to aggregate suitable content to be used to communicate correctly.		
ICT User e-Competence Proficiency Levels	Foundation Actively use the interface and tools to create simple	Intermediate Evaluate how presentations impact to the audience.	Advanced Confidently manage a complex presentation with
	presentation slides, with simple formatting.	Effectively plan presentation format, duration, content and use text editing in the presentation. Ensure quality of the output is aligned with professional presentations.	timing and appropriate content. Use sources and advanced editing features appropriately to communicate to the audience.
Dimension 4			
Knowledge Examples	Knowledge Examples Skills Examples		
Typically, individuals w	Typically, individuals will display knowledge including: Typically, individuals will display skills including:		splay skills including:
 Presentation planning K1 Understand that different audience groups need different messages. K2 Understand that information can have different degrees of complexity. K3 Understand that venues (layout, light, available equipment) can have an impact on the presentation. 		Presentation planning S1 Define the target audien occupation, cultural backgro S2 Select an appropriate ar sources for each target grou S3 Quantify the use of reso slides / length of the presen	bund). Ind reliable set of information up. urces and the number of
Manage presentation K1 Understand that a presentation can be retrieved from a local and/or remote storage location. K2 Understand that an existing presentation can be re-used and modified accordingly to the target group. K3 Understand that multiple presentations can be opened and used at the same time and their content mutually exchanged for drafting a new presentation.		an online storage location. S2 add and remove slides a presentations, modify the of presentations. S3 work on different open p	rder of slides in existing presentation files, and switch ve content from one slide of a
Use of interface and common tools K1 Understand the main components of the graphical user interface (toolbars, menus, ribbons) and available common application tools (help, zoom, find). K2 Understand that a customised toolbar can really help presentation creation activities.		Use of interface and common tools S1 Navigate around the graphical user interface and use common tools (help, zoom, find). S2 configure the toolbar to improve efficiency of completing typical procedures in users' own work. S3 Use of complex/combined commands and settings,	

K3 Understand menu levels for settings in a presentation programme, evaluate the possibility to optimise the work by sharing settings among	use of commands not present in the default ribbon, confidently assign settings to opened presentations.
presentations.	Create and format content
Create and format content	S1 Insert plain text in text-box captions. Enter text in a
K1 Understand that text is often the basic means of	slide.
communication in a slide.	S2 Format text using bold, italic, underline, colours,
K2 Understand that text can be modified and	highlighting and styles to highlight a message.
differentiated to highlight words and concepts.	S3 Use numbered, bulleted lists, use different colours to
K3 Understand that contents can be organised into	communicate different degrees of importance of the
list and sub-lists in a slide according to the relevance	messages.
and pertinence of each concept.	
NOTE: This is a non-exhaustive list of examples.	NOTE: This is a non-exhaustive list of examples.

Dimension 1 ICT User e-Competence Area	Presentations Planning presentation information, adapting to the audience needs, structuring information, inclusion of content and interaction for engagement.		
Dimension 2 ICT User e-Competence	Content Organisation Organise the structure of a presentation. Ensure the message is correctly structured to be communicated effectively to the target audience. Adapt other sources' information and documents for screen and display presentation.		
Dimension 3 ICT User	Foundation	Intermediate	Advanced
e-Competence Proficiency Levels	Actively create and draft a simple presentation, with existing templates.	Accurately create a presentation, using customisation of existing templates, differentiate slides accordingly to the message.	Confidently organise a complex presentation cross-referencing different sources and differentiating the message through advanced editing. Create customised templates for presentations
Dimension 4		1	·
Knowledge Examples		Skills Examples	
Typically, individuals will display knowledge including: Presentation Templates K1 Recognise that built-in, ad-hoc templates can help and support presentation creation. K2 Understand that templates can be modified accordingly to suit the target audience. K3 Understand that external content can be automatically included into a template.		 Presentation Templates S1 Select and use different slide templates, create a presentation based on a built-in or ad-hoc template. S2 Modify and customise an existing template, build an ad-hoc template for slides. S3 Embed text, images and data from external files into a template. 	
Structure content K1 Recognise that tables and charts help to simply convey complex concepts in a slide. K2 Understand that content structure can be modified according to content type, quality. K3 Understand that automatic update can be used to create dynamic structured content.		Structure content S1 Create charts and tables, create and use headers, footers and tables to structure content. S2 Use charts to represent data visually. S3 Use of embed data to create and automatically modify charts in the presentation.	
adjusted to suit presen K2 Understand that a p different layouts for diff specific layout identifyi K3 Understand that de	ide/page dimension can be tation, display requirements. presentation can include ferent groups of slides, or a ng an organisation. sign scheme and colour tal for visualisation in the room.	S3 Use layout and background personalisation to comply with presentation constraints and guidelines. Customise a slide master with text, multimedia and graphics.	
Arrange contentArrange contentK1 Understand that objects in a slide can be grouped and merged to create complex objects.S1 Group, ungroup text cells and objects. S2 Use available grid and arrangement features text and objects horizontally, vertically.		arrangement features to align	

ensuring a smooth readability among slides. K3 Understand that different objects can be displaced in different layers according to their importance in the message, or to create a specific visual effect.	S3 Position content (foreground, background) within layers.		
Link and embed content			
K1 Understand that the repetition of concepts in	Link and embed content		
different slides can be useful to smooth the complexity of messages and help the audience to better understand the overall presentation. K2 Understand that external sources (spreadsheets, videos, images) can be added to a presentation even if stored in different location. K3 Understand that external source content can be automatically updated as the main source changes.	S1 Create and use hyperlinks in a presentation to link to objects in different slides of the same presentation. S2 Use hyperlinks to connect to other sources. Edit embedded data and update linked data. S3 Embed content to integrate data from other sources in a presentation (spreadsheet, video, image).		
NOTE: This is a non-exhaustive list of examples.	NOTE: This is a non-exhaustive list of examples.		
See Also: Word Processing (Content Organisation), Spreadsheets (Data Analysis and Organisation), Communications (Contact Creation and Organisation)			

Dimension 1 ICT User e-Competence Area Dimension 2 ICT User e-Competence Dimension 3 ICT User e-Competence	Presentations Planning presentation information, adapting to the audience needs, structuring information, inclusion of content and interaction for engagement. Use of Graphic and Multimedia Effects Enrich the presentation with non-text format messages, expressing concepts through illustrations and multimedia, use of conceptual drawing schemes, inclusion of images and audio-video files, animate the content in a single slide. Foundation Intermediate		
Proficiency Levels	Actively use predefined art formats for text, inclusion of images, connect a multimedia file through hyperlinks.	Add suitable multimedia to a presentation, embed basic animation effects in slide and use built-in creative features accurately.	Modify built-in creative features and images confidently, use interaction among multimedia objects in a slide and among different slides.
Dimension 4			
Knowledge Examples		Skills Examples	
Typically, individuals will display knowledge including: Draw special text and concept, objects K1 Understand that a concept can be expressed through a schematic visualisation. K2 Understand that a drawn object can be saved to reuse for future and different purposes. K3 Recognise the impact of a drawn object in the presentation message and modify it according to the scope.		Typically, individuals will display skills including: Draw special text and concept, objects S1 Enrich text with built-in drawings and diagrams S2 Save a drawn object as a graphic file (jpeg, bmp, png, tiff, etc.). S3 Modify shapes, rescale, apply effects (background, transparency, 3D, etc.) to a drawn object. Use of connectors and links in diagrams and drawn objects.	
Embed and modify multimedia content K1 Understand that a multimedia content can engage the audience who follow the presentation. K2 Understand there is a limit in the multimedia that balances the need of a message and the actual level of audience understanding.		Embed and modify multin S1 Insert multimedia to enh play automatically or based S2 Use and modify images, multimedia (audio and video or colour as required.	ance the presentation, to on a command.
can be shown to the au K2 Recognise that mult objects can be animate audience to improve th presentation. K3 Understand that ani	e message of the mation can be automated with lifferent purposes and to	S2 Animate elements of graphic / multimedia objects. S3 Use action buttons to create complex animations.	
NOTE: This is a non-e	chaustive list of examples.	NOTE: This is a non-exhau	stive list of examples.

Dimension 1 ICT User e-Competence Area	Presentations Planning presentation information, adapting to the audience needs, structuring information, inclusion of content and interaction for engagement.		
Dimension 2 ICT User e-Competence	Presentation Delivery and Storage Finalise and save presentation for future use. Share a presentation with an audience, evaluate timings for a presentation, ensure suitable protection of the presentation.		
Dimension 3 ICT User e-Competence Proficiency Levels	Foundation	Intermediate	Advanced
	Actively use basic save options and automatic transition among slides.	Use interaction tools accurately, save in different formats for other uses, and use online storage for public presentation delivery.	Share and deliver a presentation confidently for public and professional events, evaluate the ethics within the message, use quality checks to ensure the presentation works as planned. Apply protection, copyright and creative commons to the presentation.
Dimension 4			
Knowledge Examples		Skills Examples	
Typically, individuals will display knowledge including:		Typically, individuals will display skills including:	
Use of presentation view tools K1 Understand the use of different presentation view options (i.e. full screen, slide show). K2 Understand that using effects can increase the audience understanding of the presentation. K3 Understand that an ad-hoc presentation path can be built to optimise the output.		Use of presentation view tools S1 Use tools to structure slide sequences, hide, show slides. S2 Use transition effects to enhance slide sequence, set presentation timing. S3 Customise a slide show for a presentation.	
Share a presentationK1 Recognise the various print options available and their uses.K2 Understand that other readers and users can be helped by note, comments.K3 Understand the importance of copyright on own work.		 Share a presentation S1 Share and print a presentation for use and commenting by colleagues and third parties. S2 Share a presentation with notes and comments for presenters. S3 Deliver and apply copyrights or creative commons to set rules of use of the presentation by third party. 	
 Presentation interactivity K1 Recognise that a presentation can have a number of slide and content paths. K2 Recognise that the presentation can also involve audience feedback. K3 Understand that multiple sources and presentations can be used to create a more compelling bilateral discussion with the audience. 		Presentation interactivity S1 Use custom buttons and switch among slides to give strength to the presentation. S2 Use of interaction effects to optimise the presentation and audience engagement. S3 Use of tools to cross-reference multiple files and multiple opened presentations.	

Generate outputs and store content K1 Understand that the content can be stored in presentation files in local or online storage locations. K2 Understand that a presentation can be used by different people, through different output devices and for different purposes. K3 Understand that different storage locations may have different file storage policies.	Generate outputs and store content S1 Save a presentation file in various formats using an appropriate filename. S2 Save a presentation in different formats for different uses (document PDF, series of images, video). S3 Use an online storage location to save and/or backup documents.	
 Perform a quality check K1 Understand that the presentation should be evaluated against what has been planned for the target audience. K2 Understand that the presentation should be smooth and without technical interruption during the speech. K3 Understand that a released presentation could be viewed by multiple audiences. 	Perform a quality checkS1 Use tools to proof the presentation and ensure that the presentation meets needs as planned.S2 Check that all embedded links, multimedia and animations work correctly.S3 Review the presentation for any ethical considerations.	
NOTE: This is a non-exhaustive list of examples.NOTE: This is a non-exhaustive list of examples.See Also: Word Processing (Document Output and Storage), Spreadsheets (Spreadsheet Output and Storage)		