# CEN

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# WORKSHOP

## AGREEMENT

ICS

English version

## 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
- DEKRA Akademie
- ECDL Foundation
- EaSA
- EMF eExcellence
- European Software Institute Center Eastern Europe
- ESI Central Europe
- EuroCIO
- EXIN
- FZI
- HBO-I
- IWA IT
- KWB eV
- Microsoft
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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 Professionals<sup>1</sup>. 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
- Communications<sup>2</sup>
- Web Browsing and Information Search<sup>3</sup>

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).

<sup>&</sup>lt;sup>1</sup> See <u>http://www.ecompetences.eu/</u> for further details.

<sup>&</sup>lt;sup>2</sup> 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).

<sup>&</sup>lt;sup>3</sup> 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<br>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<br>Information Search | Using the Browser                           |                    |              |          |
|  | Online Search                               |                    |              |          |
|  | Security                                    |                    |              |          |
|  | Online Awareness                            |                    |              |          |
|  | Information Assessment                      |                    |              |          |
|  | Online Services                             |                    |              |          |
|  | Information Sharing                         |                    |              |          |
| Communications                         | User Configuration                          |                    |              |          |
|  | Security                                    |                    |              |          |
|  | Information Exchange via e-<br>Mail         |                    |              |          |
|  | Contact Creation and<br>Organisation        |                    |              |          |
|  | Scheduling                                  |                    |              |          |
|  | Online Collaboration and Social Interaction |                    |              |          |
| Spreadsheets                           | Workbooks and Worksheet<br>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<br>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<br>ICT User<br>e-Competence Area  | <b>Word Processing</b><br>Creating structured and formatted content, using referencing, and features for<br>collaboration, mail merge and security, as well as being able to store and create outputs.   |  |  |
|---|--|--|--|
| Dimension 2<br>ICT User<br>e-Competence   | Document Creation<br>Create documents for work or social (home/recreational) use. Navigate the interface<br>confidently and select and use common tools appropriately. Create, format and edit<br>document content to create suitable documents for your chosen purpose. Create and<br>edit illustrations to enhance documents and communicate visually. |  |  |
| Dimension 3<br>ICT User<br>e-Competence   | Foundation   | Intermediate   | Advanced   |
| Proficiency Levels  | Uses input tools to create<br>simple documents<br>accurately and perform<br>simple formatting and<br>editing with some<br>guidance.  | Plan the content of a<br>document. Use input tools<br>to create and manipulate<br>text accurately and utilise<br>appropriate formatting and<br>editing features to deliver<br>quality outputs.   | Plan the content of a<br>complex document. Create<br>and manipulate text<br>accurately and efficiently.<br>Confidently use advanced<br>formatting and editing<br>features to communicate<br>information effectively. |
| Dimension 4   |  |  |  |
| Knowledge Examples  |  | Skills Examples  |  |
| Use the Interface and<br>K1 Understand the ma<br>user interface (toolbars<br>available common app<br>K2 Understand that ke  | in components of the graphical   | Typically, individuals will display skills including:<br><b>Use the Interface and Common Tools</b><br>S1 Navigate around the graphical user interface and use<br>common tools (help, zoom, find).<br>S2 Use available window features (new window, split,<br>hide/unhide).   |  |
| Create and Format Content<br>K1 Understand methods to input data in a word<br>processor (keyboard, speech recognition, mouse).<br>K2 Understand how to plan a structured document.<br>K3 Understand the importance of appropriate<br>presentation to visually enhance the content in a<br>document.<br>Edit Content<br>K1 Understand the main editing functions available in<br>the word processor.<br>K2 Understand that content can be edited and/or<br>modified. |  | <ul> <li>Create and Format Content</li> <li>S1 Enter text, symbols, special characters in a word processing document using preferred methods to input data.</li> <li>S2 Format text using bold, italic, underline, colours, highlighting and styles.</li> <li>Edit Content</li> <li>S1 Edit and delete text in a word processing document.</li> <li>S2 Use copy, paste, and paste special feature to move content within and between documents.</li> <li>S3 Use the find and replace feature.</li> </ul> |  |
| 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<br>ICT User<br>e-Competence  | Content Organisation<br>Organise document content to ensure a logical structure. Use templates, tables, headers<br>and footers to logically structure a document. Use appropriate referencing to cite sources<br>and assist readers in understanding content. Link to and embed content from other<br>sources to enhance a document. |   |   |  |
| Dimension 3<br>ICT User<br>e-Competence  | Foundation   | Intermediate  | Advanced  |  |
| Proficiency Levels   | Organise a simple<br>document positively, with<br>some guidance.   | Actively plan and organise<br>the content of a document<br>with an awareness of its<br>purpose. Use referencing<br>to cite sources accurately<br>and utilise links<br>appropriately to refer to<br>other content.   | Confidently plan and<br>organise the content of a<br>complex document to meet<br>the needs of the target<br>audience. Use cross<br>referencing and create<br>reference pages. Utilise<br>embedding to improve<br>efficiency and reuse data<br>from other sources. |  |
| Dimension 4  |  |   |   |  |
| Knowledge Examples   | <u> </u>   | Skills Examples   |   |  |
| Typically, individuals w   | ill display knowledge including:   | Typically, individuals will display skills including:   |   |  |
| <ul> <li>Structure and Layout Content</li> <li>K1 Understand and recognise the structural elements of a document (headings, indexes, tables).</li> <li>K2 Understand how to select a suitable structure and layout for a document recipient.</li> <li>Use Referencing</li> <li>K1 Understand the importance of referencing and benefits of using referencing features in documents.</li> <li>K2 Recognise different referencing options (footnote, endnote, citation, table, figure).</li> </ul> |  | <ul> <li>Structure and Layout Content</li> <li>S1 Create and use page breaks and sections to structure a document.</li> <li>S2 Create and use headers, footers and tables to structure content.</li> <li>S3 Use themes, templates to structure a document.</li> <li>S4 Use a master and sub documents for structuring complex documents.</li> <li>Use Referencing</li> <li>S1 Create and use footnotes, endnotes and captions in a document.</li> <li>S2 Create a table of contents, figures, index and a reference page/bibliography.</li> <li>S3 Use cross referencing in complex documents.</li> </ul> |   |  |
| from other sources.<br>K2 Understand the diffe   | tent<br>pe of information can be used<br>erences between links and<br>and the benefits of their use.   | Link and Embed Content<br>S1 Create and use hyperlin<br>link to other sources.<br>S2 Embed content to integ<br>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.<br>NOTE: This is a non-exhaustive list of examples.   |   |  |

| Dimension 1<br>ICT User<br>e-Competence Area   | <b>Word Processing</b><br>Creating structured and formatted content, using referencing, and features for<br>collaboration, mail merge and security, as well as being able to store and create outputs.  |  |   |  |
|--|---|--|---|--|
| Dimension 2<br>ICT User<br>e-Competence  | Document Collaboration and Interaction<br>Collaborate effectively with documents by using features like comments, change tracking<br>and document comparisons. Set and edit a shared document to allow for multi-user<br>online collaboration. Create a structured form using appropriate fields to gather<br>feedback. |  |   |  |
| Dimension 3<br>ICT User<br>e-Competence  | Foundation  | Intermediate   | Advanced  |  |
| Proficiency Levels   | Carry out proof reading<br>positively and fix simple<br>format and content errors.<br>Complete a simple form.   | Actively contribute to<br>collaborating on and<br>reviewing a document.<br>Complete a detailed form<br>accurately.   | Use experience to<br>confidently lead a<br>document collaboration and<br>review, managing<br>document changes. Plan<br>and create a form to gather<br>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<br>and the process to carry out a<br>ilable features to assist<br>nents (track changes,  | Collaborate and Review C<br>S1 Proof read a document,<br>checks and automatic corre-<br>errors.<br>S2 Use track changes and<br>S3 Use features to compar<br>S4 Setup and collaborate c | use spelling/grammar<br>ection features to correct<br>comments in a document.<br>e documents.   |  |
| Create and Use Forms<br>K1 Understand the benefit of planning the structure<br>and layout of a form.<br>K2 Understand the main types of form fields available<br>and their uses.<br>K3 Understand what kind of content optimises the<br>use of a form. |   | <b>Create and Use Forms</b><br>S1 Use a form to enter information.<br>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<br>ICT User<br>e-Competence Area  | <b>Word Processing</b><br>Creating structured and formatted content, using referencing, and features for<br>collaboration, mail merge and security, as well as being able to store and create outputs.   |  |  |  |
|---|--|--|--|--|
| Dimension 2<br>ICT User<br>e-Competence   | <b>Document Automation</b><br>Use mail merge to automate the creation of multiple items like letters, labels and<br>envelopes. Create and edit recipient lists effectively to ensure accurate outputs are<br>created. Use automation features like fields in documents to populate content<br>automatically. Record and use macros to improve efficiency by automating recurring<br>processes. |  |  |  |
| Dimension 3<br>ICT User<br>e-Competence   | Foundation   | Intermediate   | Advanced   |  |
| Proficiency Levels  | N/A  | Accurately recognise<br>opportunities to use<br>automation features.<br>Prepare and execute a mail<br>merge based on existing<br>information. Use common<br>automated fields.  | Creatively maximise the<br>use of automation features.<br>Prepare and execute<br>complex mail merges.<br>Exploit opportunities to<br>create and use macros to<br>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<br>letters, labels, envelopes.<br>es of source files that can used  | Use Mail Merge<br>S1 Prepare a document to u<br>select the recipient list.<br>S2 Use rules in a mail merg<br>S3 Execute a mail merge to<br>labels, envelopes.                  | je.  |  |
| <b>Use Automation</b><br>K1 Understand the benefits of using automatic fields<br>in a word processing application.<br>K2 Understand the benefits of using macros in a word<br>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<br>ICT User<br>e-Competence Area  | Word Processing<br>Creating structured and formatted content, using referencing, and features for<br>collaboration, mail merge and security, as well as being able to store and create outputs.   |  |  |  |
|---|---|--|--|--|
| Dimension 2<br>ICT User<br>e-Competence   | <b>Document Output and Storage</b><br>Maximise content security by using application security features and appreciate the<br>benefits of taking a pro-active approach to securing documents. Create appropriate<br>printed document outputs for an audience. Store documents in suitable location(s) for<br>your needs using appropriate filenames and choosing appropriate save options. |  |  |  |
| Dimension 3<br>ICT User<br>e-Competence   | Foundation  | Intermediate   | Advanced   |  |
| Proficiency Levels  | Use pre-set features<br>positively to save or print a<br>simple document.   | Appreciate security risks<br>associated with documents.<br>Save and store documents<br>in a variety of locations and<br>in different file types. Print<br>detailed documents.  | Confidently use security<br>features to protect and<br>secure documents. Print<br>complex documents to<br>create appropriate outputs<br>for a target audience and<br>support less experienced<br>users with simple print<br>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<br>K1 Understand the importance of protecting and<br>securing documents.<br>K2 Understand the benefits of digitally signing a<br>document.  |   | <b>Use Document and Content Security</b><br>S1 Use available password protection, encryption<br>features for documents.<br>S2 Use available digital signature features for<br>documents.   |  |  |
| Generate Outputs and Store Content<br>K1 Understand the importance of having an<br>organised approach to saving files.<br>K2 Understand the advantages and disadvantages of<br>storing files locally and/or remotely.<br>K3 Understand the importance of checking a print<br>preview before printing.   |   | Generate Outputs and Store ContentS1 Save a document in various formats using an<br>appropriate filename.S2 Print preview a document, adjust print settings and<br>print.S3 Use an online storage location to save and/or backup<br>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.<br>ation Delivery and Storage)   |  |

## 3.2 Web Browsing and Information Search

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

| Workspace<br>K1 Understand how customisation can comply with<br>your needs in browsing (shortcuts, bookmarks).<br>K2 Understand the role and uses of toolbars.<br>K3 Understand how some webpages allow<br>customisation.   | Workspace<br>S1 Add, remove, create, delete a bookmark, bookmark<br>folder.<br>S2 Display, hide built-in toolbars.<br>S3 Organise and configure webpages according to own<br>preferences, if option is available.   |
|---|---|
| <ul> <li>Web Interaction and Outputs</li> <li>K1 Understand the main principles of downloading and saving a file.</li> <li>K2 Understand that information content can be accessed directly in browser or by a particular application.</li> <li>K3 Recognise opportunities to post or publish material to a web page.</li> </ul> | Web Interaction and Outputs<br>S1 Download, print files from a web page. Upload<br>content to a remote location (cloud/offsite storage).<br>S2 Open and edit content using a browser.<br>S3 Complete and submit a web-based form (using text<br>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<br>ICT User<br>e-Competence Area<br>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<br>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.<br>Understand the search options available and utilise an appropriate search engine taking into account search engine scope, efficiency and outputs. |   |  |  |
| Dimension 3<br>ICT User<br>e-Competence  | Foundation   | Intermediate  | Advanced   |  |
| Proficiency Levels   | Accurately understand the<br>principle of an online<br>search. Formulate and<br>enter simple search queries<br>to obtain a search result.  | Pro-actively evaluate<br>results and refine searches<br>iteratively to obtain more<br>precise information. Use a<br>variety of search engines<br>for a search task. | Confidently formulate and<br>enter complex search<br>queries to maximise search<br>result quality. Identify<br>logical relationships<br>between keywords in the<br>context of the search<br>action. Select an<br>appropriate search engine<br>for a task to maximize<br>search quality and assist<br>others in applying<br>appropriate search tools<br>and techniques. |  |
| Dimension 4  |  |   |  |  |
| Knowledge Examples   |  | Skills Examples   |  |  |
| Search Technique<br>K1 Understand what a   | ill display knowledge including:<br>search is and know search  | Typically, individuals will display skills including:<br>Search Technique<br>S1 Formulate and enter a search query on a web page.                                   |  |  |
| concept identification (r<br>the keyword).   | ortance of proper search<br>mapping of desired search to<br>rms of media can be searched   | S2 Use search features to i<br>phrase, by excluding words<br>S3 Refine a search iterative<br>previous search queries.   | s, by date, by file format).   |  |
| <ul> <li>Search Engine</li> <li>K1 Describe what a search engine is.</li> <li>K2 Understand the characteristics and scope of different search engines.</li> <li>K3 Understand syntax and operators of the query language (phrase search, search within specific website, terms to be excluded).</li> </ul> |  | Search Engine<br>S1 Select a specific search<br>encyclopaedia, dictionary) a<br>S2 Use file format/type to re<br>S3 Use search engine synt<br>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<br>Using the Internet for information sourcing, information sharing or using online services<br>in the World Wide Web.   |   |  |
|--|---|--|
|  |   |  |
| Foundation   | Intermediate  | Advanced   |
| Browse web content<br>carefully, being aware of<br>security risks to personal<br>data and own device.  | Accurately browse web<br>content, setting appropriate<br>filtering and application<br>security settings to protect<br>personal data and devices.  | Act pro-actively to ensure<br>the security of personal<br>data and devices. Verify<br>digital certificates of<br>website when entering<br>confidential data.   |
|  |   |  |
|  | Skills Examples   |  |
| ill display knowledge including:   | Typically, individuals will dis   | splay skills including:  |
| Security<br>K1 Understand the risks of using personal and<br>sensitive data.<br>K2 Recognise web security threats (malware, viruses,<br>worms, spyware).<br>K3 Describe what a digital certificate and a secure<br>website is.<br>NOTE: This is a non-exhaustive list of examples. |   | vebsites.<br>s when entering confidential<br>vices when using a shared<br>g that previously stored<br>eted.  |
|  | Using the Internet for informa<br>in the World Wide Web.<br>Security<br>Act pro-actively to ensure the<br>actions to reduce security risk<br>level.<br>Foundation<br>Browse web content<br>carefully, being aware of<br>security risks to personal<br>data and own device.<br>Il display knowledge including:<br>s of using personal and<br>urity threats (malware, viruses,<br>ital certificate and a secure | Using the Internet for information sourcing, information shar<br>in the World Wide Web.<br>Security<br>Act pro-actively to ensure the security of personal data and<br>actions to reduce security risks. Configure browser settings<br>level.<br>Foundation Intermediate<br>Browse web content<br>carefully, being aware of<br>security risks to personal<br>data and own device.<br>Accurately browse web<br>content, setting appropriate<br>filtering and application<br>security settings to protect<br>personal data and devices.<br>Skills Examples<br>Il display knowledge including:<br>s of using personal and<br>urity threats (malware, viruses,<br>ital certificate and a secure<br>State and a secure<br>Intermediate<br>State and a secure<br>State and |

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

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

| Dimension 1<br>ICT User<br>e-Competence Area   | Web Browsing and Information Search<br>Using the Internet for information sourcing, information sharing or using online services<br>in the World Wide Web.   |   |  |  |
|--|--|---|--|--|
| Dimension 2<br>ICT User<br>e-Competence  | Information Sharing<br>Actively share information wir<br>information sources.  | th others and engage others to  | o contribute to these  |  |
| Dimension 3<br>ICT User<br>e-Competence  | Foundation   | Intermediate  | Advanced   |  |
| Proficiency Levels   | Share information with<br>others taking limited<br>responsibility for<br>consequences. Act lawfully<br>browsing the web being<br>aware of copyright and<br>licences and behave<br>according to the ethical<br>standards. | Actively shares information<br>with others taking full<br>responsibility and<br>consequences. | Pro-actively shares<br>information with others and<br>engage others to contribute<br>to the sources. Utilise<br>software and infrastructure<br>to maximise accessibility<br>regardless of location or<br>device. |  |
| Dimension 4  |  |   |  |  |
| Knowledge Examples   |  | Skills Examples   | Skills Examples  |  |
| Typically, individuals will display knowledge including:   |  | Typically, individuals will display skills including:   |  |  |
| <ul><li>Information Sharing</li><li>K1 Describe how to share/upload information sources with others.</li><li>K2 Recognise common sharing tools (discussion forums, community groups, interest groups, wikis).</li><li>K3 Understand the consequences of information sharing.</li></ul> |  | 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<br>ICT User<br>e-Competence Area   | <b>Communications</b><br>Use and management of e-mail/messaging, use of calendars, using social networks, blogs and instant messaging tools and devices.  |   |  |
|--|---|---|--|
| Dimension 2<br>ICT User<br>e-Competence  | User Configuration<br>Be familiar with different communications options available on the Internet. Actively set<br>up accounts to use suitable communication services, and customise the different tools<br>effectively to meet user needs. |   | -  |
| Dimension 3<br>ICT User<br>e-Competence  | Foundation  | Intermediate  | Advanced   |
| Proficiency Levels   | Understand the principles<br>of web communication. Set<br>up a standard account to<br>access communication<br>services. Find contacts to<br>communicate with, and use<br>default communications<br>service skins and<br>templates.          | Accurately sets up<br>accounts to access<br>communication services<br>and change settings to<br>adapt them to own needs.<br>Use existing skins and<br>templates to customise<br>communication services.   | Confidently evaluate and<br>choose suitable<br>communication services for<br>personal or company<br>needs. Set up<br>environments for the<br>different services, by<br>creating specific skins and<br>templates. Set up specific<br>tools for comment<br>management in a<br>communication service. |
| Dimension 4  |   |   |  |
| Knowledge Examples   |   | Skills Examples   |  |
| Typically, individuals w   | ill display knowledge including:  | Typically, individuals will display skills including:   |  |
| Account Setup<br>K1 Understand that communication can be carried<br>out towards single, specific targets (e-Mail, IM or<br>chat, SMS, VoIP communications) and towards<br>multiple targets (blog, microblogging, social networks,<br>streaming). Understand that an account is necessary<br>to access the different services.<br>K2 Recognise that communication can be interactive<br>(chat, e-mail, VoIP) or non-interactive (audio and<br>video streaming).<br>K3 Recognise that communication can occur in real-<br>time or non-real-time depending on service type,<br>network quality. |   | <ul> <li>S2 Set up a communication service: add contacts,<br/>linking accounts of different services.</li> <li>S3 Customise the communication service: define<br/>templates for blogs and social networks, set up<br/>comments, notifications mechanism.</li> </ul> |  |
| NOTE: This is a non-ex   | chaustive list of examples.   | NOTE: This is a non-exhau   | stive list of examples.  |

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

| Dimension 1<br>ICT User<br>e-Competence Area   | <b>Communications</b><br>Use and management of e-mail/messaging, use of calendars, using social networks, blogs and instant messaging tools and devices. |   |  |
|--|--|---|--|
| Dimension 2<br>ICT User<br>e-Competence  | Know how to use efficiently th   | concepts and customisation of<br>ne user interface and common<br>e-mail messages to different r   | tools of an e-mail   |
| Dimension 3<br>ICT User<br>e-Competence  | Foundation   | Intermediate  | Advanced   |
| Proficiency Levels   | Actively use e-mail<br>applications to perform<br>simple message creation<br>and incoming messages<br>management.  | Use available e-mail<br>application tools efficiently<br>to compose messages, set<br>up a signature, set up a<br>spam filter for incoming<br>messages, create a simple<br>search on messages. | Confidently use specific<br>tools available in e-mail<br>applications to efficiently<br>automate incoming<br>messages filtering, set up<br>automatic responses,<br>perform complex search on<br>archived messages. |
| Dimension 4  |  |   | •  |
| Knowledge Examples   |  | Skills Examples   |  |
| Typically, individuals w   | ill display knowledge including:   | Typically, individuals will dis   | splay skills including:  |
| mail account.<br>K2 Recognise the mak<br>address.<br>K3 Describe how the m<br>works. | references<br>ts and risks of having an e-<br>e-up and structure of an e-mail<br>nechanism of mail delivery<br>coptions available to access e-           | e-mail Settings and Prefe<br>S1 Set up e-mail signatures<br>S2 Customise e-mail applic<br>it suitable to own needs.<br>S3 Use webmail, mobile de<br>remotely.                                 | s, out of office features.<br>ation user interface to make   |
| user interface (toolbars   | n components of the graphical<br>s, menus, ribbons).<br>mmon tools are available in  | e-mail User Interface and<br>S1 Navigate around the gra<br>select options.<br>S2 Use common tools (help<br>S3 Use common keyboard<br>combinations to carry out a                              | aphical user interface and<br>o, zoom, find).<br>shortcuts and key   |
| applied to the preparat<br>K2 Understand when to                                     | ncept of network etiquette<br>ion of an e-mail message.<br>o use the Cc and BCc options.<br>ed to use of spell checking                                  | Message Creation and De<br>S1 Compose a message ar<br>Cc, BCc.<br>S2 Reply to/forward a mess<br>S3 Attach a file to an e-mai<br>S4 Select recipients from co                                  | nd send it directly or using<br>sage.<br>I message.  |
| Messages Manageme<br>K1 Describe the benefi  | ent<br>ts of using archive features for  | Messages Management<br>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<br>ICT User<br>e-Competence Area   | <b>Communications</b><br>Use and management of e-mail/messaging, use of calendars, using social networks, blogs and instant messaging tools and devices. |   |  |
|--|--|---|--|
| Dimension 2<br>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<br>ICT User<br>e-Competence  | Foundation   | Intermediate  | Advanced   |
| Proficiency Levels   | Actively add new contacts,<br>prepare simple lists and<br>edit contacts' data.<br>Understand that contacts<br>data should be managed<br>responsibly.     | Organise contacts' lists<br>accurately, synchronise<br>contacts on different<br>devices. Understand the<br>responsibilities involved in<br>sharing contacts with<br>others. | Import/export contacts' lists<br>confidently from/to other<br>applications; understand<br>that different applications<br>may need contacts' lists in<br>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.<br>K2 Recognise that con<br>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<br>K1 Understand the imp<br>organised and up to da<br>K2 Understand that it is | oortance of keeping contacts   | Update and Synchronise<br>S1 Import and export conta<br>applications (e-mail, phone<br>S2 Synchronise contacts of<br>S3 Share contacts with othe                            | , SMS…).<br>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<br>(Contact Creation and  | essing (Content Organisation), I   | Presentations (Content Organia  | sation), Communications  |

| Dimension 1<br>ICT User<br>e-Competence Area                              | <b>Communications</b><br>Use and management of e-mail/messaging, use of calendars, using social networks, blogs and instant messaging tools and devices. |   |   |
|---|--|---|---|
| Dimension 2<br>ICT User<br>e-Competence                                   |  | ndar is both useful and conver<br>ntly and keep it updated over c   | 0 01  |
| Dimension 3<br>ICT User<br>e-Competence                                   | Foundation   | Intermediate  | Advanced  |
| Proficiency Levels  | Manage simple calendar<br>events. Be able to answer<br>to an event invitation and<br>add the event to own<br>calendar.                                   | Synchronise calendars<br>accurately between<br>different devices. Share<br>calendars with other<br>persons. Create tasks in a<br>calendar.  | Manage calendar tasks<br>confidently. Import, export<br>calendar events, tasks. |
| Dimension 4   |  |   | 1   |
| Knowledge Examples  |  | Skills Examples   |   |
| Using Calendars<br>K1 Understand that a c<br>computer or available of     | endars can be shared to  | Typically, individuals will dis<br>Using Calendars<br>S1 Create, edit, and delete<br>recurring appointments.<br>S2 Answer an event invitati<br>S3 Synchronise a calendar<br>(computer, tablet, smartpho<br>S4 Import, export calendar | calendar entries; arrange<br>on.<br>between different devices<br>one).          |
| Calendar and Task Ma<br>K1 Understand how pri<br>setting targets for comp | oritising activities can help in   | Calendar and Task Manag<br>S1 Create, edit, and delete<br>S2 Organise tasks in task li<br>completion.<br>S3 Use websites services to<br>calendar.   | tasks.<br>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<br>ICT User<br>e-Competence Area   | <b>Communications</b><br>Use and management of e-mail/messaging, use of calendars, using social networks, blogs and instant messaging tools and devices.  |  |   |
|--|---|--|---|
| Dimension 2<br>ICT User<br>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<br>ICT User  | Foundation  | (IM, online meetings, blogs, so  | Advanced  |
| e-Competence<br>Proficiency Levels   | Know different ways to<br>communicate appropriately<br>using internet services.<br>Create and send simple<br>messages via different<br>services. Compose simple<br>comments to answer posts<br>on a blog, or messages on<br>a social network.         | Connect to an online<br>meeting service positively.<br>Compose messages for a<br>social network or posts for<br>a blog with complex<br>content. Understand the<br>copyright associated to<br>multimedia material shared<br>on the web. | Set up an online meeting<br>confidently; share material<br>and computer desktop with<br>the other online meeting<br>participants. Set up<br>confidently preferences for<br>managing comments<br>received for a blog post. |
| Dimension 4  |   |  |   |
| Knowledge Examples   | I   | Skills Examples  |   |
| Instant Message Serv<br>K1 Describe the charac<br>MMS, VoIP, and how th<br>K2 Recognise that mar<br>via SMS (weather warr  | ny services are available also  | Typically, individuals will dis<br><b>Instant Message Services</b><br>S1 Send and receive instant<br>VoIP).<br>S2 Compose SMS messag<br>S3 Send additional materia<br>MMS or during instant mess                                       | and Applications<br>at messages (IM, MMS,<br>es using available tools.<br>I (pictures, documents) as  |
| service is appropriate.<br>K2 Understand how to<br>meeting services to the   | e use of an online meeting<br>choose suitable online<br>e participants needs (maximum<br>participants, possibility to use   | Online Meetings<br>S1 Setup and start an onlin<br>S2 Activate the webcam du<br>S3 Show the computer des  | ring a conference.  |
| <b>Blogging</b><br>K1 Describe what a blog is, and the type of content it<br>may present (personal online diary, corporate<br>information, political commentaries, training material).<br>K2 Recognise possible legal and social<br>consequences associated to blogging. |   | <b>Blogging</b><br>S1 Write and format a new<br>S2 Add images and links to<br>S3 Comment on a post in a<br>S4 Accept, decline commer   | a post.<br>blog using different devices.  |
| <b>Social networking</b><br>K1 Describe the etique<br>behave in a social netv  | tte required to correctly vork.   | Social networking<br>S1 Prepare and post a mes<br>S2 Manage own connectior   | -   |

| K2 Understand social network utility and rules.<br>K3 Recognise when the use of geolocation tools to<br>share own location on the social network is<br>appropriate. | groups).<br>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<br>ICT User<br>e-Competence Area<br>Dimension 2<br>ICT User<br>e-Competence<br>Dimension 3<br>ICT User   | Spreadsheets<br>Creating and modifying workbooks, setting up and making use of formulas/macros,<br>presenting data visually, organising and analysing data.Workbooks and Worksheets CreationInteract with the spreadsheet interface by selecting and using appropriately common<br>tools or setting up personal preferences. Create a workbook including a number of<br>worksheets and entering different types of data in cells. Use different tools to format<br>contents for a specific purpose. Link confidently contents from different cells and<br>worksheets.FoundationIntermediateAdvanced |   |  |
|--|---|---|--|
| e-Competence<br>Proficiency Levels   | Interact actively with the<br>spreadsheet interface and<br>use simple tools to create<br>and format simple<br>workbooks.  | Plan the content of a<br>spreadsheet accurately and<br>use different formats of<br>data in a worksheet to<br>create a cohesive<br>workbook.   | Create and manage<br>complex workbooks<br>confidently, including<br>several worksheets, by<br>linking their different data<br>and making use of complex<br>formatting tools to deliver a<br>high quality document. |
| Dimension 4  |   |   |  |
| Knowledge Examples   |   | Skills Examples   |  |
| Typically, individuals will display knowledge including:<br><b>Spreadsheet interface and users preferences</b><br>K1 Understand the elements of the spreadsheet<br>interface (workbook, worksheet, cell, row, columns)<br>and be aware of the possibility to set up preferences.<br>K2 Recognise that there are differences in the way<br>the user interacts with a spreadsheet and another<br>interface (copy/paste, delete, may work in a<br>different way than they do in a word processing).<br>K3 Understand that the user can decide to modify the<br>default setting to create the preferred number of<br>spreadsheets within a workbook. |   | Typically, individuals will display skills including:<br><b>Spreadsheet interface and users preferences</b><br>S1 Navigate through the user's interface and use the<br>different available tools.<br>S2 Freeze/unfreeze and hide/unhide a row or a column<br>within a worksheet (to use as reference all the time).<br>S3 Create a workbook making use of the existing<br>templates if they suite user's needs. |  |
| Create a workbook / worksheet<br>K1 Understand that a workbook can include one or<br>more worksheets.<br>K2 Understand good practice using cells (enter one<br>only sort of date per cell, avoid blank<br>rows/columns)  |   | Create a workbook / worksheet<br>S1 Apply the appropriate commands to create a new<br>workbook or an open an existing workbook.<br>S2 Insert a new worksheet within a workbook.<br>S3 Define and Set up the data type in a cell.  |  |
| K1 Understand the importance of planning content<br>structure.S1 Enter the ty<br>S2 Apply the re<br>suitable comma<br>S3 Format dataK2 Understand the possible formats that a cell could<br>have (numbers, texts, dates, currencies).S1 Enter the ty<br>S2 Apply the re<br>suitable comma<br>S3 Format data  |   | <b>Format content</b><br>S1 Enter the type of data se<br>S2 Apply the required forma<br>suitable command in the me<br>S3 Format data using bold,<br>highlighting and styles.  | at to a cell by using the<br>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<br>worksheets.<br>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<br>ICT User<br>e-Competence Area   | <b>Spreadsheets</b><br>Creating and modifying workbooks, setting up and making use of formulas/macros,<br>presenting data visually, organising and analysing data.  |   |   |
|--|---|---|---|
| Dimension 2<br>ICT User<br>e-Competence  | Formulas and Functions<br>Use the appropriate syntax to create and easily use formulas that a specific task or<br>project requires. Access those functions that are already set by default and use them<br>confidently. |   |   |
| Dimension 3<br>ICT User<br>e-Competence  | Foundation  | Intermediate  | Advanced  |
| Proficiency Levels   | Use simple syntax actively<br>to create a simple<br>workbook including simple<br>arithmetic formulas.   | Plan the content of a<br>workbook pro-actively<br>using a range of formulas<br>and some functions, where<br>suitable. | Plan and create complex<br>workbooks confidently by<br>using and creating complex<br>formulas and taking<br>advantage of complex<br>functions to enhance<br>productivity. |
| Dimension 4  |   |   |   |
| Knowledge Examples   |   | Skills Examples   |   |
| Typically, individuals will display knowledge including: Typically, individuals will display skills including:   |   | splay skills including:   |   |
| Formulas<br>K1 Understand the importance of the concept of "cell<br>reference" (cell address) for the formulas set up.<br>K2 Understand the syntax of creating different kind of<br>formulas (use of the specific discriminator allowed by<br>each spreadsheet).<br>K3 Understand the common error messages<br>produced by the spreadsheet in order to sort them<br>out. |   | and division).<br>S2 Use mixed references to<br>formulas.   | n, subtraction, multiplication<br>o create specifically needed<br>s from a cell to another and  |
| Functions<br>K1 Understand the different kind of functions already<br>set by default by the spreadsheet and the ones that<br>can be created.<br>K2 Understand the specific importance of using the<br>conditional function in some cases (using<br>spreadsheets as a data base).<br>NOTE: This is a non-exhaustive list of examples.                                     |   | <b>Functions</b><br>S1 Use arithmetic functions<br>S2 Use statistical functions                                       | (countif, countblank, rank).  |

| Dimension 1<br>ICT User   | Spreadsheets<br>Creating and modifying workbooks, setting up and making use of formulas/macros,<br>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<br>charts/graphs to the same data series. Manage and modify specific charts/graphs.<br> |  |  |
|---|--|--|--|
| e-Competence Area   |  |  |  |
| Dimension 2<br>ICT User<br>e-Competence   |  |  |  |
| Dimension 3<br>ICT User   | Foundation   | Intermediate   | Advanced   |
| e-Competence<br>Proficiency Levels  | Actively generate some<br>types of charts/graphs from<br>a simple data series and<br>store them.   | Create several types of<br>charts/graphs accurately,<br>from elaborated data and<br>modify/format them.  | For complex data series,<br>confidently evaluate all<br>charts/graphs types<br>available and generate the<br>most adequate ones. If not<br>available, generate "Built-<br>In-Custom" ones.<br>Confidently interpret and<br>export charts/graphs to<br>different locations. |
| Dimension 4   |  |  |  |
| Knowledge Examples  |  | Skills Examples  |  |
| Use Charts and graph<br>K1 Describe the different<br>charts already availabl<br>benefits.<br>K2 Understand how to   | vill display knowledge including:<br>hs<br>ent "Built-In Custom" types of<br>e in a spreadsheet and their<br>interpret the produced chart.<br>ferent types of sparklines that  | Use Charts and graphs<br>S1 Select the data series thave to be applied and cre<br>combining the "Built-In Cu<br>S2 Apply the type of chart<br>need and audience.   | to which the chart or graph<br>eate a personalised chart by  |
| Format charts and graphs<br>K1 Recognise the different tools and methods<br>available to format a chart.<br>K2 Understand that hyperlinks embedded to a chart<br>can be useful and add value.<br>K3 Understand that an embedded chart can be<br>copied from a position to another within the same<br>worksheet or to a different one. |  | Format charts and graphs<br>S1 Position, size and align embedded charts.<br>S2 Chose and apply a style for the chart or graph.<br>S3 Apply data labels to each wedge in a specific chart of<br>graph and add/remove legends. |  |
| Export charts and graphs<br>K1 Understand that a chart can be exported to<br>another workbook/worksheet and to another file<br>(image file, presentation file).<br>K2 Recognise that, in some spreadsheets, a chart   |  | Export charts and graphs<br>S1 Use tools and macros, when necessary, to export an<br>embedded chart to another file (image file, presentation<br>file).<br>S2 Produce a chart using data exported from a text<br>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<br>ICT User<br>e-Competence Area   | <b>Spreadsheets</b><br>Creating and modifying workbooks, setting up and making use of formulas/macros, presenting data visually, organising and analysing data. |   |  |
|--|---|---|--|
| Dimension 2<br>ICT User<br>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<br>ICT User<br>e-Competence  | Foundation  | Intermediate  | Advanced   |
| Proficiency Levels   | N/A   | Generate simple pivot<br>tables/charts accurately<br>and sort out errors that may<br>occur during the process.                                      | Plan and generate complex<br>pivot tables/charts<br>confidently and modify<br>them to change views with<br>ease, to obtain high quality<br>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<br>K2 Understand that it i   | <b>Id pivot charts</b><br>formation can be extracted fro<br>ithout the use of formulas.<br>s possible to view the same<br>art, under different ways and         | Using pivot tables and pixon<br>S1 Create pivot tables and<br>S2 Add and modify data in<br>S3 Use "drag and drop" to<br>number of different ways.   | enter pivot table data.<br>pivot table.  |
| Filtering and sorting<br>K1 Understand that or<br>produced, filtering tool<br>K2 Recognise the tool<br>K3 Understand that in | ice pivot tables have been  | Filtering and sorting data<br>S1 Filter and sort data by c<br>S2 Create a list and perform<br>automatic filter.<br>S3 Apply advanced filter op<br>o | olumns.<br>n either a manual or an   |
| NOTE: This is a non-e  | • • • •   | NOTE: This is a non-exhau<br>, Presentations (Content Organia   | •  |

| Dimension 1<br>ICT User<br>e-Competence Area  | <b>Spreadsheets</b><br>Creating and modifying workbooks, setting up and making use of formulas/macros, presenting data visually, organising and analysing data.  |   |  |
|---|--|---|--|
| Dimension 2<br>ICT User<br>e-Competence   | Spreadsheet Output and Storage<br>Use appropriate ways (passwords, digital signature) to save and store spreadsheets<br>content. Store spreadsheet files in different formats, as needed. Select the appropriate<br>storage location (backup, external, internal). Set printing preferences and print<br>spreadsheet contents. |   |  |
| Dimension 3<br>ICT User<br>e-Competence   | Foundation   | Intermediate  | Advanced   |
| Proficiency Levels  | Actively save and/or print a simple worksheet or a full workbook.  | Appreciate security risks<br>associated with documents.<br>Save and store documents<br>accurately, in a variety of<br>locations and in different<br>file types. Print detailed<br>documents.  | Use security features<br>confidently to protect and<br>secure documents. Print<br>complex documents to<br>create appropriate outputs<br>for a target audience and<br>support less experienced<br>users with simple print<br>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<br>K1 Understand the importance of protecting and<br>securing spreadsheets.<br>K2 Understand the benefits of digitally signing a<br>spreadsheet.   |  | Use Spreadsheet and Con<br>S1 Use available password<br>features for spreadsheets.<br>S2 Use available digital sign<br>spreadsheets.  | protection, encryption   |
| Generate Outputs and Store Content<br>K1 Understand the importance of having an<br>organised approach to saving files.<br>K2 Understand the advantages and disadvantages of<br>storing files locally and/or remotely.<br>K3 Understand the importance of checking a print<br>preview before printing. |  | Generate Outputs and Store Content<br>S1 Save a spreadsheet in various formats using an<br>appropriate filename.<br>S2 Print preview a spreadsheet, adjust print settings and<br>print.<br>S3 Use an online storage location to save and/or backup<br>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<br>ICT User<br>e-Competence Area<br>Dimension 2<br>ICT User<br>e-Competence<br>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<br>e-Competence<br>Proficiency Levels  | Foundation Actively use the interface and tools to create simple  | Intermediate<br>Evaluate how presentations<br>impact to the audience.   | Advanced<br>Confidently manage a<br>complex presentation with  |
|   | presentation slides, with simple formatting.  | Effectively plan<br>presentation format,<br>duration, content and use<br>text editing in the<br>presentation. Ensure<br>quality of the output is<br>aligned with professional<br>presentations.   | timing and appropriate<br>content. Use sources and<br>advanced editing features<br>appropriately to<br>communicate to the<br>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:  |
| <ul> <li>Presentation planning</li> <li>K1 Understand that different audience groups need different messages.</li> <li>K2 Understand that information can have different degrees of complexity.</li> <li>K3 Understand that venues (layout, light, available equipment) can have an impact on the presentation.</li> </ul>  |   | <b>Presentation planning</b><br>S1 Define the target audien<br>occupation, cultural backgro<br>S2 Select an appropriate ar<br>sources for each target grou<br>S3 Quantify the use of reso<br>slides / length of the presen  | bund).<br>Ind reliable set of information<br>up.<br>urces and the number of  |
| Manage presentation<br>K1 Understand that a presentation can be retrieved<br>from a local and/or remote storage location.<br>K2 Understand that an existing presentation can be<br>re-used and modified accordingly to the target group.<br>K3 Understand that multiple presentations can be<br>opened and used at the same time and their content<br>mutually exchanged for drafting a new presentation. |   | an online storage location.<br>S2 add and remove slides a<br>presentations, modify the of<br>presentations.<br>S3 work on different open p  | rder of slides in existing<br>presentation files, and switch<br>ve content from one slide of a   |
| Use of interface and common tools<br>K1 Understand the main components of the graphical<br>user interface (toolbars, menus, ribbons) and<br>available common application tools (help, zoom, find).<br>K2 Understand that a customised toolbar can really<br>help presentation creation activities.  |   | Use of interface and common tools<br>S1 Navigate around the graphical user interface and use<br>common tools (help, zoom, find).<br>S2 configure the toolbar to improve efficiency of<br>completing typical procedures in users' own work.<br>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<br>ICT User<br>e-Competence Area  | <b>Presentations</b><br>Planning presentation information, adapting to the audience needs, structuring<br>information, inclusion of content and interaction for engagement.   |   |  |
|---|---|---|--|
| Dimension 2<br>ICT User<br>e-Competence   | Content Organisation<br>Organise the structure of a presentation. Ensure the message is correctly structured to<br>be communicated effectively to the target audience. Adapt other sources' information<br>and documents for screen and display presentation. |   |  |
| Dimension 3<br>ICT User   | Foundation  | Intermediate  | Advanced   |
| e-Competence<br>Proficiency Levels  | Actively create and draft a simple presentation, with existing templates.   | Accurately create a<br>presentation, using<br>customisation of existing<br>templates, differentiate<br>slides accordingly to the<br>message.  | Confidently organise a<br>complex presentation<br>cross-referencing different<br>sources and differentiating<br>the message through<br>advanced editing. Create<br>customised templates for<br>presentations |
| Dimension 4   |   | 1   | ·  |
| Knowledge Examples  |   | Skills Examples   |  |
| Typically, individuals will display knowledge including:<br><b>Presentation Templates</b><br>K1 Recognise that built-in, ad-hoc templates can help<br>and support presentation creation.<br>K2 Understand that templates can be modified<br>accordingly to suit the target audience.<br>K3 Understand that external content can be<br>automatically included into a template. |   | <ul> <li>Presentation Templates</li> <li>S1 Select and use different slide templates, create a presentation based on a built-in or ad-hoc template.</li> <li>S2 Modify and customise an existing template, build an ad-hoc template for slides.</li> <li>S3 Embed text, images and data from external files into a template.</li> </ul> |  |
| Structure content<br>K1 Recognise that tables and charts help to simply<br>convey complex concepts in a slide.<br>K2 Understand that content structure can be modified<br>according to content type, quality.<br>K3 Understand that automatic update can be used to<br>create dynamic structured content.   |   | Structure content<br>S1 Create charts and tables, create and use headers,<br>footers and tables to structure content.<br>S2 Use charts to represent data visually.<br>S3 Use of embed data to create and automatically<br>modify charts in the presentation.  |  |
| adjusted to suit presen<br>K2 Understand that a p<br>different layouts for diff<br>specific layout identifyi<br>K3 Understand that de   | ide/page dimension can be<br>tation, display requirements.<br>presentation can include<br>ferent groups of slides, or a<br>ng an organisation.<br>sign scheme and colour<br>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<br>and merged to create complex objects.S1 Group, ungroup text cells and objects.<br>S2 Use available grid and arrangement features<br>text and objects horizontally, vertically.  |   | arrangement features to align   |  |

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

| Dimension 1<br>ICT User<br>e-Competence Area<br>Dimension 2<br>ICT User<br>e-Competence<br>Dimension 3<br>ICT User<br>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<br>formats for text, inclusion of<br>images, connect a<br>multimedia file through<br>hyperlinks.   | Add suitable multimedia to<br>a presentation, embed<br>basic animation effects in<br>slide and use built-in<br>creative features<br>accurately.  | Modify built-in creative<br>features and images<br>confidently, use interaction<br>among multimedia objects<br>in a slide and among<br>different slides. |
| Dimension 4  |  |  |  |
| Knowledge Examples   |  | Skills Examples  |  |
| Typically, individuals will display knowledge including:<br><b>Draw special text and concept, objects</b><br>K1 Understand that a concept can be expressed<br>through a schematic visualisation.<br>K2 Understand that a drawn object can be saved to<br>reuse for future and different purposes.<br>K3 Recognise the impact of a drawn object in the<br>presentation message and modify it according to the<br>scope. |  | Typically, individuals will display skills including:<br><b>Draw special text and concept, objects</b><br>S1 Enrich text with built-in drawings and diagrams<br>S2 Save a drawn object as a graphic file (jpeg, bmp,<br>png, tiff, etc.).<br>S3 Modify shapes, rescale, apply effects (background,<br>transparency, 3D, etc.) to a drawn object. Use of<br>connectors and links in diagrams and drawn objects. |  |
| <b>Embed and modify multimedia content</b><br>K1 Understand that a multimedia content can engage<br>the audience who follow the presentation.<br>K2 Understand there is a limit in the multimedia that<br>balances the need of a message and the actual level<br>of audience understanding.  |  | Embed and modify multin<br>S1 Insert multimedia to enh<br>play automatically or based<br>S2 Use and modify images,<br>multimedia (audio and video<br>or colour as required.  | ance the presentation, to<br>on a command.   |
| can be shown to the au<br>K2 Recognise that mult<br>objects can be animate<br>audience to improve th<br>presentation.<br>K3 Understand that ani  | e message of the<br>mation can be automated with<br>lifferent purposes and to  | S2 Animate elements of graphic / multimedia objects.<br>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<br>ICT User<br>e-Competence Area  | <b>Presentations</b><br>Planning presentation information, adapting to the audience needs, structuring information, inclusion of content and interaction for engagement.   |   |  |
|---|--|---|--|
| Dimension 2<br>ICT User<br>e-Competence   | Presentation Delivery and Storage<br>Finalise and save presentation for future use. Share a presentation with an audience,<br>evaluate timings for a presentation, ensure suitable protection of the presentation. |   |  |
| Dimension 3<br>ICT User<br>e-Competence<br>Proficiency Levels   | Foundation   | Intermediate  | Advanced   |
|   | Actively use basic save<br>options and automatic<br>transition among slides.   | Use interaction tools<br>accurately, save in different<br>formats for other uses, and<br>use online storage for<br>public presentation<br>delivery.   | Share and deliver a<br>presentation confidently for<br>public and professional<br>events, evaluate the ethics<br>within the message, use<br>quality checks to ensure<br>the presentation works as<br>planned. Apply protection,<br>copyright and creative<br>commons to the<br>presentation. |
| Dimension 4   |  |   |  |
| Knowledge Examples  |  | Skills Examples   |  |
| Typically, individuals will display knowledge including:  |  | Typically, individuals will display skills including:   |  |
| Use of presentation view tools<br>K1 Understand the use of different presentation view<br>options (i.e. full screen, slide show).<br>K2 Understand that using effects can increase the<br>audience understanding of the presentation.<br>K3 Understand that an ad-hoc presentation path can<br>be built to optimise the output.                                       |  | Use of presentation view tools<br>S1 Use tools to structure slide sequences, hide, show<br>slides.<br>S2 Use transition effects to enhance slide sequence, set<br>presentation timing.<br>S3 Customise a slide show for a presentation.   |  |
| <ul><li>Share a presentation</li><li>K1 Recognise the various print options available and their uses.</li><li>K2 Understand that other readers and users can be helped by note, comments.</li><li>K3 Understand the importance of copyright on own work.</li></ul>  |  | <ul> <li>Share a presentation</li> <li>S1 Share and print a presentation for use and commenting by colleagues and third parties.</li> <li>S2 Share a presentation with notes and comments for presenters.</li> <li>S3 Deliver and apply copyrights or creative commons to set rules of use of the presentation by third party.</li> </ul> |  |
| <ul> <li>Presentation interactivity</li> <li>K1 Recognise that a presentation can have a number of slide and content paths.</li> <li>K2 Recognise that the presentation can also involve audience feedback.</li> <li>K3 Understand that multiple sources and presentations can be used to create a more compelling bilateral discussion with the audience.</li> </ul> |  | <b>Presentation interactivity</b><br>S1 Use custom buttons and switch among slides to give<br>strength to the presentation.<br>S2 Use of interaction effects to optimise the presentation<br>and audience engagement.<br>S3 Use of tools to cross-reference multiple files and<br>multiple opened presentations.                          |  |

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