**WP2– Sustainable Development of Industry 4.0 Competence Development Training Program**

**Task 2.1 Designing an Industry 4.0 Competence Development Training Program/ M8. Digital Manufacturing**

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| **Project Acronym:** | ReCap4.0 |
| **Project full title:** | Reinforcing Non-University Sector at the Tertiary Level in Engineering and Technology to Support Thailand Sustainable Smart Industry |
| **Project No.:** | 619325-EPP-1-2020-1-TH-EPPKA2-CBHE-JP |
| **Work Package N° and title** | |  | | --- | | WP2-Task 2.1 Designing an Industry 4.0 Competence Development Training Program | |
| **WP Leader** | Pisut Koomsap (AIT) and Cathal de Paor (MIC) |
| **Deliverable (Task) N°/Title** | |  | | --- | | Task 2.1 Designing an Industry 4.0 Competence Development Training Program/ M8. Digital Manufacturing | |
| **Author responsible for the Deliverable** | Bogdan Felician ABAZA, Mihaela Elena ULMEANU, Manuela-Roxana DIJMARESCU; Cristian Doicin |
| **Date of Deliverable submission** | |  | | --- | | Task 2.1 Designing an Industry 4.0 Competence Development Training Program/ M8. Digital Manufacturing | |
| **Status:** | First draft |
| **Dissemination Level:** | Internal |

**Revision Sheet**

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| --- | --- | --- | --- |
| **Version** | **Date** | **Author (Partner/Person)** | **The revision reason** |
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**Assessment of Deliverables**

**Adequacy with the format**

Mark with X the appropriate column (Y: Yes - N: No - NA: Not applicable)

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| **Format** | Y | N | NA | **Comments** |
| Does the document meet the commitments from Application Form? *(answer with Y/ N only)* | P1 P2 P3 P4 P5 P6 P7 P8 |  |  |  |
| Does the document contain:  WP number, Deliverable name, Version, Author Name and Date? |  |  | P1 P2 P3 P4 P5 P6 P7 P8 |  |
| Does the document contain all the necessary official logos of the project and the program? | P1 P2 P3 P4 P5 P6 P7 P8 |  |  |  |
| Does the document include a Table of Contents? | P1 P2 P3 P6 P7 P4 |  | P8 | P3.P5 P7. Only for D3 |
| Does the document include a list of participants and reviewers (approvals)? |  |  | P1 P2 P3 P4 P6 P7 P8 | **P5** |
| Does the document use the fonts and paragraphs defined in the official template? | P3 P5 P6 |  | P1 P2 P4 P7 P8 |  |
| Does the spelling, grammar etc. of the document is appropriate? | P1 P2 P3 P4 P5 P6 P7 P8 |  |  | P8. Please see 2nd observation bellow concerning D1 and D3. |

**Quality evaluation**

The following scores will be utilized in delivery review; 1-Poor;2-Average;3-Satisfactory;4-Good;5-Very Good

Mark with X the appropriate column:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Question** | **P1** | **P2** | **P3** | **P4** | **P5** | **P6** | **P7** | **P8** | **Total** | **Score** | **Comments** |
| **How deliverable comply with the WP objectives as specified in the WP description?** | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 40 | 5 |  |
| **How deliverable correspond with the activity description as specified in the Application Form?** | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 40 | 5 |  |
| **The clarity of the contents of the document is evaluated as…** | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 4 | 33 | 4,125 | P8. Please see observations bellow concerning D1 to D4 |
| **How is the treatment of the contents of the document regarding the required depth?** | 5 | 4 | 3 | 5 | 4 | 5 | 4 | 5 | 35 | 4,375 |  |
| **The quality of the contents of the document is evaluated as** | 4 | 5 | 4 | 4 | 4 | 4 | 5 | 5 | 35 | 4,375 | P8. Please see observations bellow concerning D1 to D4 |
| **Does the document need the addition of sections to reach completeness (Yes/No)? Specify which ones** | No | | | | | | | | | | |
| **Are there any sections in the document that should be removed (Yes/No)?**  **Specify which ones** | No | | | | | | | | | | |

**Observations/ suggestions** (add rows as needed)

|  |  |  |  |
| --- | --- | --- | --- |
| **Partner** | **Deliverable/ Page No.** | **Section** | **Observations / Suggested Improvement** |
| P1 | D1/1;D2/1; D4/1 |  | AM should be replaced by Additive Manufacturing (AM) before using the acronym AM later |
| P1 | D1/1;D2/1;D3/1,4,5,53, 61 |  | Change “Introduction into” and “Introduction in” to “Introduction to” |
| P1 | D3/38, 39, 40, 59, 117, |  | Quality of pictures are not so good |
| P2 | 4,5 |  | Introduction ~~in~~to ?Digital Manufacturing |
| P2 | 6 |  | What is Manufacturing ? |
| P2 | 7 |  | In the picture>>Input or inputs; output or outputs? |
| P2 | 31, 33,37-40,59,62-65,70,78,81,112,  124-128,134,157, | , | The letter in the picture are small and not clear. |
| P3 | D1/pg1 |  | Learning outcomes do not seem to be compatible with objectives; no learning outcome that corresponds to the second objective of this module. |
| P3 | D1 and D3 |  | No content in the outline/slides that describes “industrial performance”. What is the definition of “industrial performance”? |
| P3 | D1 and D3 |  | No content in the outline/slides that describes how to improve “industrial performance”. This is the second objective of this module. |
| P3 | D3/all |  | The texts are quite small in most of the slides, difficult to see from a far. |
| P3 | D3/pg.2, pg.4, pg.5 |  | Please change “Introduction into Digital Manufacturing” to “Introduction in Digital Manufacturing” |
| P3 | D3/pg.61 |  | Please change “Introduction in” to “Introduction to” |
| P3 | D3/pg.106 |  | The text color is too light, difficult to see. |
| P3 | D3/pg.108 |  | The text color is too light, difficult to see. |
| P3 | D3/pg.117 |  | The picture is a little burred. |
| P4 | D1,D2 | Prerequisite | What is the meaning of ‘not mandatory’ at the end of the section? |
| P4 | D1,D2,D3 | Introduction | Please change “Introduction into” to “Introduction to” ; several pages in D3 as well |
| P4 | D3 | P2, P20, P27, P30, P34, P35, P36, P46, P187 – P190, P192 – P195, P197 – P203 | Fonts are too tight and hard to read. |
| P4 | D3 | P 38 – P40, P117 | The pictures are unclear/blur. |
| P4 | D3 | P81 | The picture is too small and it can be read. |
| P5 | D2/2 | Coaching Activities | Meeting 10 – How to do 3D printing of the product components. There is a 3D printer for all the trainees? |
| P5 | D3/12 |  | The first picture overlaps the word “Cycle” |
| P5 | D3/15-16 |  | What the differences between these two pages? |
| P5 | D3/33 |  | Picture overlaps the title |
| P5 | D3/45 | Assignment2 | There is any laboratory for using Technomatix software? The trainees might not have the basic of using Technomatix software or any simulation software. |
| P5 | D3/81 |  | Picture is too small. |
| P5 | D3/180 |  | Should be Assignment 4 |
| P5 | D3/182 |  | Should be Assignment 5 |
| P5 | D3/185 |  | Should be Assignment 6 |
| P5 | D3/196 |  | Should be Assignment 7 |
| P6 | Throughout |  | The text could be larger/ this might not be visible from a distance/ On some slide a darker font may be required. |
| P6 | Page 2 / Page 61 |  | It Is best to write ‘Introduction to Digital Manufacturing’ |
| P7 | **D3** |  | A better correlation between Training Activities presented in Activities Plan and the organization and content of M8 Digital Manufacturing Module\_Presentation. |
| P7 | **D3** |  | More written explanatory information on the chapters and for the images presented in M8 Digital Manufacturing Module\_Presentation. |
| P7 | **D3** |  | Text and picture are too small in some slides |
| P8 | D1/1; D2/1; D3/1,53 / D4/1,2 |  | AM acronym should be described |
| P8 | D1/1; D3/1,4,5,53,61 |  | Consider change “Introduction into Digital Manufacturing” to “Introduction to Digital Manufacturing” (also in “Introduction into Additive Manufacturing”) |
| P8 | D3/40, 65,78 |  | blurred pictures |

**Reviewer Assessment**

(Mark with X the appropriate line)

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| --- | --- |
| **Document accepted; no changes required** |  |
| **Document accepted but changes required** |  |
| **Document not accepted; it must be reviewed after changes are implemented** |  |
| **Date of Review** |  |
| **Reviewer’s Name & Organization (from QCMB)** |  |

**QCMB Chair Consolidated Assessment**

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| --- | --- |
| **Document accepted; no changes required** |  |
| **Document accepted but changes required** | **P1 P2 P3 P4 P5 P6 P7 P8** |
| **Document not accepted; it must be reviewed after changes are implemented** |  |
| **Suggestions for improvement (if applicable)** |  |
| **Date of Quality assurance performed** | **22.11.2023 A. Szuder P7-UPB** |
| **Deadline for submission of amended version of deliverable (if applicable)** |  |

**PEC Approval**

|  |  |
| --- | --- |
| **Document accepted; no changes required** |  |
| **Document accepted but changes required** |  |
| **Document not accepted; it must be reviewed after changes are implemented** |  |
| **Suggestions for improvement (if applicable)** |  |
| **Date of Quality assurance performed** |  |
| **Deadline for submission of amended version of deliverable (if applicable)** |  |