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

**Task 2.1 Designing an Industry 4.0 Competence Development Training Program/ M.9 Innovative Product Design and Development**

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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** |

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| WP2-Task 2.1 Designing an Industry 4.0 Competence Development Training Program |

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| **WP Leader**  | Pisut Koomsap (AIT) and Cathal de Paor (MIC) |
| **Deliverable (Task) N°/Title**  |

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| Task 2.1 Designing an Industry 4.0 Competence Development Training Program/ M.9 Innovative Product Design and Development |

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| **Author responsible for the Deliverable**  | Pisut Koomsap (AIT)  |
| **Date of Deliverable submission**  | 20.01.2022 |
| **Status:** | Final |
| **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)*** | X [P3; P5;P7] |  | X [ P1; P2; P4; P6; P8] |  |
| **Does the document contain:** **WP number, Deliverable name, Version, Author Name and Date?** | X [P3; P6; P8] |  | X [P1; P2; P4; P5; P7 ] |  |
| **Does the document contain all the necessary official logos of the project and the program?** | X |  |  |  |
| **Does the document include a Table of Contents?** | X [P1; P2] |  | X [P3; P4; P5; P6; P7; P8] |  |
| **Does the document include a list of participants and reviewers (approvals)?** |  |  | X |  |
| **Does the document use the fonts and paragraphs defined in the official template?** | X [P3; P5] |  | X [P1; P2; P4; P6; P7; P8] |  |
| **Does the spelling, grammar etc. of the document is appropriate?** | X [P1; P3; P4; P5; P6; P7; P8] |  | X [P2] |  |

**Quality evaluation**

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

Mark with X the appropriate column:

|  |  |  |  |  |  |  |  |  |  |  |  |
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| **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?**  | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 39 | 4,875 | Good |
| **How deliverable correspond with the activity description as specified in the Application Form?**  | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 39 | 4,875 | Good |
| **The clarity of the contents of the document is evaluated as…** | 4 | 5 | 4 | 5 | 5 | 5 | 4 | 4 | 36 | 4,5 | Good. [P1] D3 should be spitted into sessions (by inserting some slides with session titles) to make it clear[P8] Some slides on D3 are a little bit dense. |
| **How is the treatment of the contents of the document regarding the required depth?** | 5 | 5 | 4 | 5 | 5 | 5 | 5 | 5 | 39 | 4,875 | Good |
| **The quality of the contents of the document is evaluated as** | 5 | 5 | 5 | 5 | 4 | 5 | 5 | 5 | 39 | 4,875 | Good[ P5] Add Rubrics for Competency Assessment |
| **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)

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| **Partner** | **Deliverable/Page No.** | **Section** | **Observations / Suggested Improvement** |
| P1 | M9/D3 | - | D3 should be spitted into sessions (by inserting some slides with session titles) to make it clear. The slides should also be numbered. |
| P3 | D3/pg20 |  | The picture is blurry, not sharp. |
| P3 | D3/pg25 |  | Adjust the size of the triangular -orange text-box properly so that the text will have consistent margin. |
| P3 | D3/pg.163 |  | Picture is a little blurry, not sharp. |
| P3 | D3/ pg. 164 |  | Font is too small, not sharp. |
| P3 | D3/pg.11 |  | Font of the Equation and its size and ratio should be adjusted properly |
| P3 | D3/pg.60 |  | The graph cannot be viewed clearly because it is was overlaid by the text box highlighted in green. |
| P3 | D3/pg.61 |  | The graph cannot be viewed clearly because it is was overlaid by the text box highlighted in green. |
| P3 | D3/pg71 |  | Please adjust the size of the text-box so that the text will have consistent size and margin. |
| P3 | D3/pg. 74 |  | The size of the text box “Performance” must be adjusted properly; the text should be inside the box. |
| P3 | D3/pg/90 |  | The text should overlay on top of the line graph so that the text can be seen clearly. |
| P3 | D3/Pg.131 |  | Size of the green text-box should be adjusted so that the texts inside the box are positioned properly with consistent margin. See the text-box at the bottom. |
| P3 | D3/pg141 |  | Please adjust the size of the text-box so that the text will have consistent margin. |
| P3 | D3/ pg145 |  | Please adjust the size of the text-box so that the text will have consistent margin. See the text-box “Importance Rating”. |
| P3 | D3/pg20 |  | The picture is blurry, not sharp. |
| P4 |  |  | there is no title of the slide or figure. |
| P4 |  |  | The figure’s name should be given. (Canvas) |
| P4 |  |  | slide number should be applied for every page. It will be useful when someone want to refer to a particular page. |
| P5 | D1 | Learning Activities | What are the “Short Lectures”? |
| P5 | D2 | Outline of Training Activities | Day1: Topic-Importance of Product Design and DevelopmentThe activity timing is not long. Every trainee has already known the important of each course. |
| P5 | D3 |  | What is the “Innovative” in this course? The contents in the material are the general concept of Product Design and Development. The concepts are presently applied in every product. How to be Innovative Product should be added in the material. |
| P5 | D4 | II | MLO4: Identify sound business… This outcome is in the Remembering Level. |
| P7 | D3 |  | The definition of the product is ambiguous and may give rise to interpretations. There should be a clear classification of product types.  |
| P7 | D3 |  | Virtual products to be presented and defined |
| P8 | D1/2 and D2/2 |  | Inconsistency: D1 indicates “Training: 15hours; Coaching: 30 hours; Group project: 60 hours” while D2 refers “15 training hours; 30 coaching hours; 60 self practice hours”. |
| P8 | D3/n.a. | - | Eventually, a slide with the list of the major topics (agenda) could be included at the beginning of D3 (set of 169 slides). This will help attendees to see the “big picture”. |
| P8 | D3/n.a. | - | Slides are not numbered. Eventually, its inclusion would help if someone needs to refer to a particular slide. |

**Reviewers Assessment**

(Mark with X the appropriate line)

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| **Document accepted; no changes required** | **X [P2; P6;]** |
| **Document accepted but changes required** | **X [P1; P3; P4; P5; P7; P8]** |
| **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** | **X** |
| **Document not accepted; it must be reviewed after changes are implemented** |  |
| **Suggestions for improvement (if applicable)** | **Presented above in Observations/ Suggestions** |
| **Date of Quality assurance performed**  | **02.02.2022** |
| **Deadline for submission of amended version of deliverable (if applicable)**  |  |

**PEC Approval**

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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** |  |
| **Suggestions for improvement (if applicable)** |  |
| **Date of Quality assurance performed**  |  |
| **Deadline for submission of amended version of deliverable (if applicable)**  |  |