



## PROJECT IMPLEMENTATION PLAN

Reference No.: 438

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| <b>Date of Issue</b>                | 22 July 2024   |
| <b>Project Code</b>                 | 24-RC-23-GE-COE-C-IN02   |
| <b>Title</b>                        | Development of Training Manual on Industry 4.0 and Responsible AI Adoption for SMEs  |
| <b>Timing</b>                       | 25 July 2024–15 December 2024  |
| <b>Hosting Country(ies)</b>         | India  |
| <b>Venue City(ies)</b>              | Not Applicable   |
| <b>Modality</b>                     | Online   |
| <b>Implementing Organization(s)</b> | National Productivity Council, India and APO Secretariat   |
| <b>Participating Country(ies)</b>   | India  |
| <b>Overseas Participants</b>        | Not Applicable   |
| <b>Local Participants</b>           | Not Applicable   |
| <b>Closing Date</b>                 | Not Applicable   |
| <b>Remarks</b>                      | This is a strengthening program for the Center of Excellence (COE) on IT for Industry 4.0 through development of a framework and training-of-trainers (ToT) toolkit for NPC officers responsible for COE activities. |

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| <b>Objectives</b>     | Support the APO COE on IT for Industry 4.0 in developing a framework and ToT toolkit on IT for Industry 4.0 and Responsible Artificial Intelligence (AI) for SMEs and promote and scale up the adoption of IT for Industry 4.0 technologies and AI in SMEs in APO members.  |
| <b>Rationale</b>      | As SMEs struggle to create their own methods to maximize the potential of Industry 4.0 and AI, a framework and ToT toolkit guiding them to identify their own definitions of and approaches to Industry 4.0 and AI, and supporting them in adopting different tools and techniques, methods, and sets of technologies, need to be developed. The ToT toolkit and framework will harness and complement this capacity-building initiative for COE staff.   |
| <b>Background</b>     | To scale up COE performance, a hybrid in-country consultation and training of trainers, and the development of a need and readiness assessment on the adoption of Industry 4.0 and AI Tools and Technologies for SMEs for Responsible Digital Transformation were implemented. The objectives were to equip NPC officers to assess the status of SMEs regarding their capacity for AI tool adoption and train professionals in AI applications for smart manufacturing to strengthen the capacity of the APO COE on IT for Industry 4.0. The framework and ToT toolkit to be developed are expected to be a useful package covering the fundamentals of Industry 4.0 and responsible AI and their implications for SMEs. Utilizing the framework and ToT toolkit, SMEs will be able to position themselves in terms of readiness and maturity level, thereby determining focus areas and prioritizing digital initiatives to accelerate their transformation. |
| <b>Topics</b>         | Fundamentals of IT for Industry 4.0 and responsible AI for SMEs; Framework, tools, technologies, and techniques for digital transformation; Readiness assessment framework for SMEs in adopting technology and undertaking the Industry 4.0 and responsible AI transformation; and Identification of focus areas, interventions, and digital initiatives to transform successfully.   |
| <b>Outcome</b>        | Research on existing publications, ToT toolkits, and regulations is conducted; components, measurable objectives, and key competencies are defined by stakeholder analysis; and training modules, analytic and assessment methods, and digital initiatives for successful transformation of SMEs are identified.  |
| <b>Qualifications</b> | NPC officers responsible for conducting COE activities.   |

Please refer to the implementation procedures circulated with this document for further details.



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