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SKILLS4PDM

Employees Skills for
Predictive Maintenance

Bringing Predictive Maintenance to
Manufacturing and Workforce Skillset

Background

Predictive maintenance solutions are gaining increasing interest in the European manufacturing industry. Condition monitoring combined with Artificial Intelligence may significantly improve maintenance activities in a shop floor. Nevertheless, these underlying concepts and technologies are not familiar to the existing workforce and management.

Skills4PdM project aims to improve the know-how of existing workforce and actively support their re-skilling or upskilling in relation to predictive maintenance as part of a smart manufacturing paradigm, making also available didactic materials to educate them regarding new technologies and challenges of Industry 4.0.

Skills4PdM targets to bridge the existing gap in the manufacturing workforce's skillset to comprehend and benefit from predictive maintenance solutions and policies in their organizations and in the context of Industry 4.0.

Benefits

- Upskilling/reskilling of people into innovative technologies and solutions related to Predictive Maintenance (PdM), Internet of Things (IoT), and Cyber Physical Production Systems (CPPS), thus allowing workers to become more efficient in their maintenance activities.
- Introduction of latest benefits of PdM and knowledge transfer from EU R&D activities to wider audiences in an intuitive way.
- Enhancement of the uptake of PdM solutions by companies, as they may better comprehend the underlying solutions facilitating them in decision-making.
- Adoption of PdM approaches will allow industries to enhance their maintenance approaches, bringing down maintenance costs and downtime, becoming more competitive.



Key Features

PREDICTIVE MAINTENANCE LEARNING PATHS AND MICRO-CERTIFICATION

- Learning activities and short-term learning paths developed according to identified features affecting the workers learning process, such as skills, age, position, experience.
- Online educational kit consisted of various material, training the listener to PdM solutions and required background. The material will facilitate different skillset with respect to professional experience and background.
- A demo application navigating the trainee to a digital environment of a predictive maintenance platform and its applications.

TEACHING AND LEARNING FACTORY PROJECTS

- Two-way knowledge communication between academia and industry.
- Teaching with scenarios related to real-life challenges and learning by hands-on approach in real industrial environments.