LEARNING ENVIRONMENTS AND TRAININGS FOR DIGITALIZED PRODUCTION

Training and continuing education programs - Flexible Industry 4.0 learning environment for teaching establishments

SUMMARY

“Experience innovative technologies hands-on” - this was the guiding motto for development of the smart learning factory. The aim is to offer high-quality trainings for digitalized production of the future. Alongside trainings for industrial enterprises, there are also individual learning environments for vocational training schools.

CURRENT SITUATION

Today, in the age of digitalization, ever more demands are placed on specialists and managers. Increasing customer requirements, greater product diversity, demand for shorter delivery times and increased cost pressure all present new challenges. If, despite this, high levels of productivity, quality and transparency are to be achieved in the organization, then increased use of technology is essential in a high-wage country like Germany.

PROJECT DESCRIPTION

Users and participants will achieve the following learning goals:
• Improvement in problem-solving skills, i.e. apply technologies, methods and AI algorithms
• Functionality and application of intelligent sensor networks, e.g. RFID (radio frequency identification)
• Understanding of system architectures
• Relevance and benefits of Enterprise Resource Planning (ERP) and Manufacturing Execution System (MES)
• Functionality and application of assistance systems and the impact on the future world of work
• Identification of opportunities and risks of digitalized production of the future

INDUSTRY 4.0 FEATURES

• Visualization of key performance indicators (KPIs) on industrial dashboards
• Use of assistance systems
• Development of intelligent sensor networks
• Use of MES

STANDARDIZATION APPROACHES

Vendor-neutral interoperability is necessary: open interfaces and vendor-neutral systems are required for teaching establishments. This means the administration shell should be referenceable and standardized.
Sustainability: Retrofitting approaches (sensor technology) to enable continued use of existing machines and plant assets

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PARTNERS

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SOLUTION

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