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Continuing Engineering Education (CEE) in Changeable and Reconfigurable Manufacturing using Problem-Based Learning (PBL)

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Abstract

Changeability and reconfigurability are some of the most important sources of competitiveness in today's manufacturing industry. However, the development and implementation of reconfigurable manufacturing systems still appear to be challenged and limited in industry. Therefore, it is increasingly relevant for engineers and professionals in the manufacturing industry to build knowledge and competences in reconfigurability. This paper presents preliminary insights and learnings from developing and running a problem-based learning (PBL) course in reconfigurable manufacturing for continuing engineering education (CEE). Presented insights cover both observed benefits and learnings for professionals participating in the course, as well as important learnings on how to best transfer knowledge from research to practice.

Keywords: Changeable manufacturing; Reconfigurable manufacturing; Engineering education, Problem-based learning; Continuing engineering education