

Factory Master Planning at John Deere

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Abstract

Facilities planning is the study of how to utilize a facility's fixed assets to best support achieving its operational objectives. In the case of manufacturing, this often involves the planning and management of a facility's: location, design, manufacturing layout, personnel and material handling systems to best support production and satisfy customer requirements. The Factory Master Planning process developed at John Deere and described in this paper is a strategic planning process that delivers a fencepost to fencepost implementation plan, schedule and budget to organize, equip and operate a manufacturing facility for the next 3 to 5 years. This process focuses on how to drive operations toward meeting facility operational objectives, minimize the risk of making challenging decisions, align the organization to the direction and key goals of the enterprise, and manage overall change. Examples to be discussed.

Biography

Andrew Kiekhaefer is a senior engineer at John Deere Corporate World Headquarters, where he is a member of the Enterprise Factory Master Planning team, and is responsible for the development and deployment of enterprise manufacturing planning related analytics. He earned a B.S. in Industrial Engineering from Iowa State University, a M.S. in Industrial Engineering from Purdue University, and Ph.D. in Industrial Engineering from the University of Iowa. His interests include: Big Data Analytics, Simulation, Statistics and Optimization. He is a member of IIE and INFORMS.