



Modern Construction: Lean Project Delivery and Integrated Practices (Industrial Innovation Series)

Lincoln H. Forbes, Syed M. Ahmed

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During the past several decades, the manufacturing and service industries significantly increased their levels of productivity, quality, and profitability through the application of process improvement techniques and information technology. Unfortunately, the construction industry lags far behind in the application of performance improvement and optimization techniques, as well as its overall competitiveness. Written by Lincoln H. Forbes and Syed M. Ahmed, both highly regarded for leadership and innovation, **Modern Construction: Lean Project Delivery and Integrated Practices** offers cutting-edge lean tools and other productive strategies for the management of people and processes in the construction industry.

Drs. Forbes and Ahmed focus mainly on lean construction methodologies, such as The Last Planner(R) System, The Lean Project Delivery System (TM), and Integrated Project Delivery(TM). The tools and strategies offered draw on the success of the world-renowned Toyota Production System (TPS) adapted to the construction environment by construction professionals and researchers involved in developing and advocating lean construction methods. The book also discusses why true lean construction can best occur when all the construction stakeholders, owners, designers, constructors, and material suppliers are committed to the concept of optimizing the flow of activities holistically while de-emphasizing their self-interest.

The authors also reintroduce process improvement approaches such as TQM and Six Sigma as a foundation for the adoption of lean methodologies, and demonstrate how these methods can improve projects in a so-called traditional environment. The book integrates these methods with emerging interest in "green construction" and the use of information technology and Building Information Modeling (BIM), while recognizing the human element in relation to motivation, safety, and environmental stresses. Written specifically for professionals in an industry that desperately needs to play catch up, the book delineates cutting-edge approaches with the benefit of successful cases and explains how their deployment can improve construction performance and competitiveness.

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