

Getting Ready for 2030: A People, Process, and Technology Roadmap for Offsite Construction (RT-371, Onsite versus Offsite Construction – The Impact of Offsite Construction on the Workforce)

This project provides a proactive and forward-thinking roadmap of the stages of workforce development to take advantage of the growth in offsite construction in 2030 for future improvements in performance and enhanced project execution. The outcomes of this project will make construction organizations more competitive by driving real benefits and reducing risks in terms of construction predictability and consistency. Focusing on people, technology, and process, Research Team 371 proposes a framework for continuous organizational improvement based on 124 recommended offsite construction practices that companies should implement to maximize and capitalize on the benefits of offsite construction. This project helps offsite construction companies in workforce planning and management, prioritization of training needs and programs, improving the quality of the workforce involved in offsite construction operations, having more accurate identification of shortcomings in their offsite construction projects, and identifying what capabilities the workforce needs to acquire to improve offsite construction performance and how such improvement might be achieved. The findings of this research also quantify the state of practice of offsite construction and recommended a list of technologies that companies should invest in for current and future offsite construction success. RT-371 develops a maturity model and scoring system to assess, benchmark, and keep track of an organization's progress as it moves to, and leverages the benefits of, offsite construction.

Presenters

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