

LABOR RESOURCE PLANNING FOR CONSTRUCTION PROJECTS

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Abstract

During the initial planning for some projects the effect of labor availability in the market on the cost and the schedule of the project is not sufficiently emphasized. This has caused delay in completion of several projects due to a lack of skilled labor, resulting in cost overruns. The Del E. Webb School of Construction at Arizona State University has initiated a research project to model the resource requirements for semiconductor manufacturing facility construction projects, since the construction of semiconductor facilities relies heavily on skilled labor and timely delivery. The research is based on a case study for the construction of a semiconductor manufacturing facility. The scope of the study is from the initial planning through the construction of the facility. The approach from this research can be generalized to other types of construction projects. The information collected can be used by cost engineers to provide a more accurate and realistic estimate of cost and schedule for projects.