

off-site prefabrication, pull planning, and analysis of the weekly work plan. Instructor Notes are provided to assist in using the case study.

3. Preconstruction Planning: Leading a Collaborative Team

This case study focuses on Oneglia Construction Company's preconstruction management process and project team collaboration. The context for the case study is the renovation of the Naugatuck Valley High School that is occupied throughout the project. The renovation must take place in phases, with part of the building occupied and part a construction zone fully separated from the building users. Representatives from the Owner, Architect, and Construction Manager describe their priorities and perspectives regarding the project. The primary teaching objective is the role of collaboration and the factors that contribute to

7. Mobile Technology in Construction Project Management

study focuses on the company's evolving strategic direction, a changing product mix, and aggressive goals for revenue growth and geographical expansion. The timeframe for the case study is approximately a 30-year period with a primary focus on performance over the past five years. The impacts of the company's strategic initiatives are investigated, the financial performance of the company is analyzed, and actions to enhance performance are explored. Instructor Notes are provided to assist in using the case study.

12. Prefabrication and Modularization of Façade Systems

This case study examines the challenges that general contractors face and the decisions that they need to make when implementing prefabrication and modularization processes on projects. The specific application addressed is the selection, fabrication, and installation of façade systems for a new retail-apartment building. The façade system used is a mix of curtain wall, window wall, and storefront installed by a design-build façade subcontractor. The case study starts with a description of types of façade systems and their construction and concludes with a discussion of project management and coordination issues. Instructor Notes are provided to assist in using the case study.

13. Development of Construction Site-Specific Safety Plan

This case study involves the development of a site-specific safety plan for a multistory commercial building being constructed in a major urban setting. The case study starts with a discussion of the organization of a site-specific safety plan including the need to identify hazards and select controls that should be implemented to lower safety risks. Then specific safety concerns related to the case study project are presented. Students are asked to address a series of issues related to each identified safety concern. Then the students are asked to complete a hazard assessment for one of the identified safety concerns. Instructor Notes are provided to assist in using the case study.

14. Construction Safety

This case study involves an analysis of a hypothetical scenario involving a fall-from-height incident. In addition to presenting a commonly experienced incident (fall from height), the case study addresses challenges such as language barriers, management of safety on a multi-employer worksite, and relevance of safety regulations and the law as they relate to construction safety. The case study starts with a description of the incident, the parties involved, the contractual relationships, the setting prior to the incident, and the relevant context.

16. Strategies for Implementing Diversity and Inclusion on a Construction Site

This case study addresses a situation in which a construction company with primarily white employees is executing a major construction project in neighborhoods where the population is primarily black. Project leaders are placed in a position that calls for sensitivity toward diversity and inclusion as decisions are made during the execution of the project. The case study addresses the selection of diversity and inclusion strategies in the development of a hiring program for the project and the development of a community engagement program. Three scenarios are presented: strategies for achievement of contract hiring requirements, strategies for achievement of company diversity hiring goals, and community engagement strategies. Students are asked to respond to a series of questions related to selection of appropriate strategies and identification of potential challenges that may be faced when implementing them. Instructor Notes are provided to assist in using the case study.

17. Incorporating Diversity, Equity, Inclusion, and Accessibility on a Construction Site

This case study involves incorporating diversity, equity, inclusion, and accessibility when making decisions affecting individuals working on a project site. While the word “diversity” is often considered to refer to cultural or gender differences, the case study explores additional types of diversity. Three scenarios are provided set in the context of the expansion and renovation of multiple buildings on a university campus. The scenarios address challenges faced by women, individuals with different sexual orientation, and disabled people working on a construction site. Learners are asked to respond to a series of questions related to the issues presented in each scenario and select appropriate strategies for addressing them. Instructor Notes are provided to assist in using the case study.