

PROJECT MANAGEMENT

SYLLABUS

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Introduction

Module 6 represents the culmination of all prior modules, as it focuses on overall project management. A successful project management plan respects and highlights the decisions made throughout the conception and design of an educational facility project, to ensure the end product celebrates the educational goals and guiding principles of the project. Understanding the factors that affect the success of a project, including people and teams, is critical to the success of the project management plan.

Course Theme

The project management phase interprets the earlier decisions made by the community and school district to ensure they are successfully incorporated into the construction process. This course will allow students the opportunity to learn about the participants and their roles in the project, to assemble the strongest team that can deliver the project based on the earlier established goals. In addition, students will learn varied delivery models, their benefits and challenges in order to make the best selection for the project

Learning Outcomes

1. Learn the challenges that are associated with overall project management of educational facility projects and develop a complete plan to ensure success.
2. Understand the role of all team members in order to maximize their potential, efficiency and contributions to the project. In addition, define team member expectations and select the right delivery model to support these expectations.
3. Learn available delivery models and understand their benefits and challenges, as well as determine suitability on a project-by-project basis.
4. Understand project schedule, and see the activities associated with each major milestone of construction. Learn the necessary tools that need to be completed to keep the project on schedule, within budget and operating effectively.
5. Learn about overall project costs, including initial costs versus life cycle costs.
6. Learn the benefits of commissioning of systems and users, to align the results of initial goals and objectives to school operations.
7. Understand the impact that a construction project can have on the community and students and take advantage of this learning opportunity for students.

Schedule and Deliverables:

Week 1: **Introduction to the course and project**

Covers: Course structure and team format
 Deliverables and grading
 Project: Haltom MS
 Project Goals and alignment to initial goals
 The community's input
 Components of a Project Management plan

Week 2: **Project Delivery Models**

Covers: A changing industry – technology, sustainability, collaboration, diversity
 Different delivery models
 IPD and its benefits

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Week 3: **People and Project teams**

Covers: Dynamics of project teams
Roles and Responsibilities
Benefits of collaboration and partnering
The role of the community
The role of students in construction

Week 4: **Schedule**

Covers: Overall schedule components, including outside the construction contract
Unknowns in a project schedule
Major construction phases and documentation per phase (RFI's, submittals, close out)

Week 5: **Best Overall Value**

Covers: Understanding initial costs vs. long term costs
Value Engineering
Commissioning systems
Commissioning educators

Week 6: **Pulling it all together – the Project Management Plan**

Covers: Identifying all components of the plan and understanding risks.
Methods for mitigating risk
Presenting recommendations