## **Core Concept:** Project Management



**Engineering Literacy Dimension:** Engineering Practices

**Practice:** Engineering Design

**Overview:** Project Management is the process of scoping a project and planning, organizing, and managing resources to complete the project within defined constraints. Sophistication in this process requires knowledge related to project management strategies, techniques, and tools for (a) *initiating and planning project activities*, (b) scoping the project and managing timelines and costs, (c) tracking and evaluating risks, quality, teams, and procurement, and (d) managing product lifecycles. This core concept is important to the practice of Engineering Design as design projects are carried out within dynamic environments involving a variety of limitations.

## **Performance Goal for High School Learners**

I can successfully plan and manage a design project to achieve the desired goals within the established constraints through the application of appropriate project management strategies and techniques (e.g. team charters, Gantt charts).



consideration would impact the product and its connected environment.