

Strategic Project Management Unit 6

Course Layout and Overview

- Seven units
 - Unit One: What is Project Management
 - Unit Two: The Project Lifecycle
 - Unit Three: Initiating Projects
 - Unit Four: Planning Projects
 - Unit Five: Executing Projects
 - Unit Six: Monitoring and Controlling Projects
 - Unit Seven: Closing Projects



Unit 6 Learning Outcomes

- plan various communication requirements during project execution
- compare actual progress to plans, update information, monitor implementation of project and changes
- apply metrics and reporting techniques to monitor and control a project
- identify variances and tolerances to set the boundaries for acceptable results
- evaluate the use of earned value analysis to complete work performance reports
- determine if a project is on schedule or on budget using project software reporting features

Why Are Learning Outcomes Important?

- Every learning outcome ties back to course materials and content.
- Assessments are tied to each learning outcome.
- Test Preparation



Unit Six Overview Topics

- Definitions
- Progress plans
- Metrics and reporting techniques
- Project software

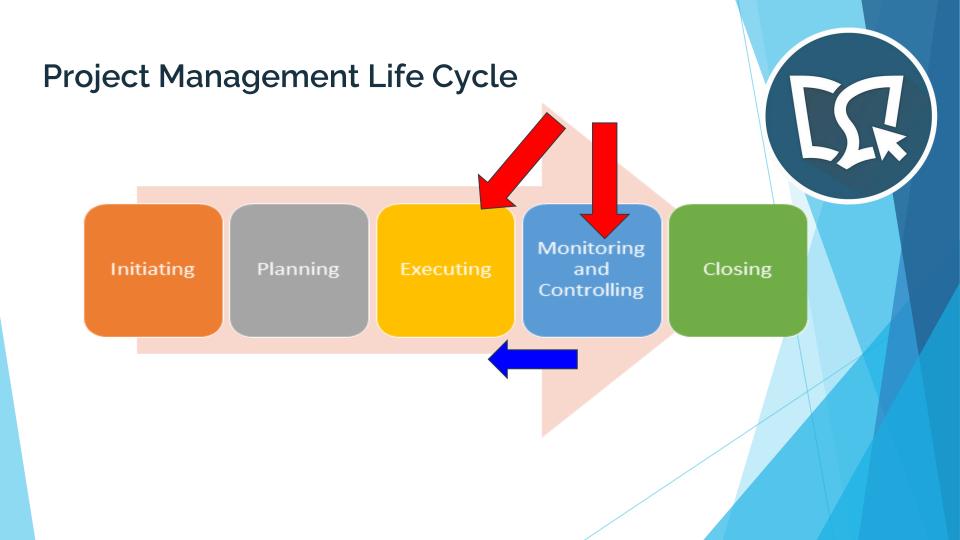


Project Management Definitions

- Earned Value Management
- EVM
- Project software

- CPI
- KPI
- SPI

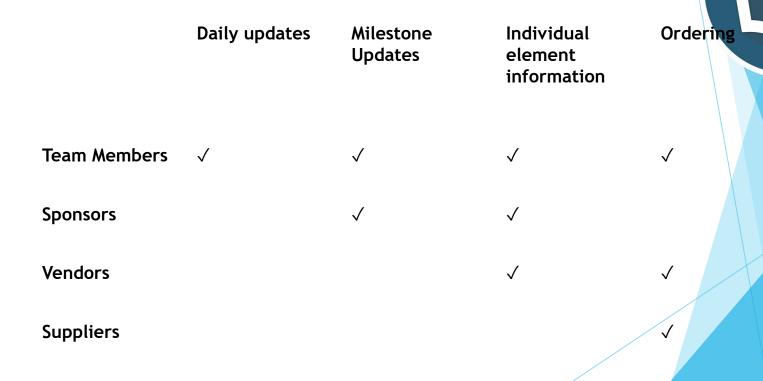




Communication



Communication – how often



Communication - format



	Synchronous	Asynchronous
Team Members	✓	✓
Sponsors	✓	✓
Vendors	✓	✓
Suppliers	✓	✓

Monitoring - comparison

- Change control board
- Manage constrained resources
- Resource loading





- Key performance indicators
 - Budget
 - Time spent vs time planned
 - Resource conflict
 - Number of errors
 - Project milestones
 - Number of Change requests



Monitoring - Metrics and Reporting

- Key performance indicators
- What metrics



Monitoring – Boundaries – cost variance

- Cost Variance
- Schedule variance

a cost variance means there
is a difference between the
planned cost and actual cost
of the project. This can mean
that the project has cost more
or less than anticipated.



Monitoring – Boundaries – schedule variance

- Cost Variance
- Schedule variance
- a schedule variance means that there is a difference between the amount of work that was planned to be complete and the actual amount of work complete.



Monitoring - Boundaries

- Cost Variance
- Schedule variance
- Corrective action



Monitoring - Earned Value Analysis

Earned value compares the actual work completed with what should have been completed at a given point in time to determine if the project is on schedule or on budget.

Monitoring - Earned Value Analysis - SPI

Schedule performance index (SPI)

Formula:

(SPI) - SPI = EV / PV



Monitoring - Earned Value Analysis - CPI

Cost performance index (CPI)

Formula:

(CPI) - CPI = EV / AC



Using Project Software

Microsoft Project

SmartSheet

Using Project Software - types

- Burndown chart will show the planned work, completed work, and remaining work left for the project.
- Cost Flow shows a project total costs, planned, costs, and remaining costs.
- Cost Overruns shows both task cost variances and resource cost variances.
- Resource Cost shows the total costs of resources to date.
- Earned Value Management provides earned value indices.
- Critical Tasks/Late Tasks/Slipping Tasks shows tasks that are critical to the project and need to be monitored, tasks that are late and/or slipping and need to be addressed.



Controlling

- Using KPIs,
- EVA,
- project software



Conclusion - Unit 6

- plan various communication requirements during project execution
- compare actual progress to plans, update information, monitor implementation of project and changes
- apply metrics and reporting techniques to monitor and control a project
- identify variances and tolerances to set the boundaries for acceptable results
- evaluate the use of earned value analysis to complete work performance reports
- determine if a project is on schedule or on budget using project software reporting features

What's next? Monitoring Planning Initiating Closing and Controlling