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- Guidelines on Avoiding Project Failure
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Time Management

- Time management involves managing both the time spent, and the progress made on tasks and activities during project life cycle.
- Excellent time management involves planning, scheduling, monitoring, and controlling of all project tasks and activities.
- This process is the framework for developing a sequence of activities, their respective durations, an estimation of the needed resources and how these fit into the overall project management plan.

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Project Time Management

- Project Time management includes the processes to manage the timely completion of the project.
- Project Time Management is mainly concerned with developing a realistic project schedule and controlling changes to the schedule



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Why is Project Time Management Important?

- Project time management impacts the overall quality, scope, and cost of a project. It is one of the most important project management knowledge areas.
- Successful time management helps the project manager ensure the completion of the project within the time and budget allocated.
- In addition, project time management helps in determining the time required to complete project, what stakeholders are needed to be involved in the process, and which expertise are needed to be included at any given point.





Planning

- The process of project planning involves choosing the appropriate and most effective procedures in order to achieve and achieve the objectives of the project.
- It includes creating a work breakdown structure.
- Project planning takes place before project scheduling
- In other words, project planning is the process of communicating what and how much needs to be done.

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Scheduling

- Project scheduling includes an indepth examination of the details of a project.
- The process of assigning tasks and allocating budgets to convert the project action plan into an operating timetable.
- In other words, project scheduling is the process of allocating resources needed, and determining the time frame during which the tasks need to be performed.



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Project Planning

Project planning occurs when a project manager creates the project guide which includes:

- The project plan
- A detailed outline of all aspects of a project (aka project scope).
- Project duration.
- Project budget.
- Project restrictions.
- A detailed structure of the work breakdown
- Risk analysi

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Phases of Project Planning

- Initiating the project:
- Determining project objectives.
- Determining the project deliverables that are crucial to achieve the project objectives.
 Creating the project schedule

- Evaluating and closing.
 Communicating the project plan to stakeholders and seeking feedback.

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Benefits of Project Planning

- The project plan offers a roadmap that guides the projects starting at the initiation stage until the end and closing.

- Planning helps the project manager to distribute tasks among the team members involved which
 gives them autonomy. In fact, involving employees in project planning inspires them to contribute to
 the project with their point of views, optionars experiences, and stalk which helps the project above
 and beyond the tasks axigns to each member. This helps the team members teet a sense of
 ownership and help them take profer to head or valued part of the team.

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Benefits of Project Planning (Cont'd)

- Project planning provides a structure that enables the project manager to estimate resources, costs and time. It helps the project manager to eliminate wastleful activities that costs the projects maney and time. In addition, it helps identifying any possible defays.

- The project plan helps in predicting risks and avoiding mistakes through the planning of mitigations strategies that would help in identifying and employing actions that reduce or eliminate risks to the project.
- Project pions help the project manager to evaluate and improve the lessons learned whether it is the strengths or short comings of the previous projects. This is very important for tracking projects goals and end results.















Project Scheduling

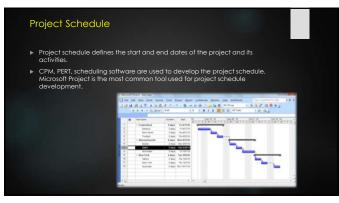
- Estimation of essential materials and human resources at every stage of the project as well as an approximate calculated time to complete tasks at each stage.
- It specifies the start and end date of each project task and provides a logical association among different project tasks and activities.



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Project Scheduling

- The project schedule is the tool that guides the project management team of what work needs to be done, who will perform the work and the timeframes within which that work needs to be accomplished.
- A project schedule reflects all the work that needs to be done for the project to be completed on time.
- A project schedule assigns a duration to the project activities and the activities are sequenced in a logical order.



Benefits of Project Scheduling Reduces Lead Time

- Cost Reductions
- Facilitates Productiv
- Identify and foresee problems in ad
- Manitar Program Undates and

Monitor Progress Updates and Aler





Causes & Impact of Poor Planning and Scheduling

- Poor time management
- Poor definitions of project objectives
- Poor budget and timeline estimates
- Poor control of the project scope
- Dissatisfied customers
- Dissuisiled costorners
- Exposing the project to the highest risks
- All of which will eventually lead to the project

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Causes & Impact of Poor Planning and Scheduling

Unrealistic Schedules

Symptoms

The subject of poor scheduling comes up frequently. Let's look first at the symptoms for a better perspective.

- Project costs are overrun
- Milestone dates are missed, sometimes by a wide margin
 The performance measurement methods are revised as schedules slip or the project control function is revamped each time there is a major crisis

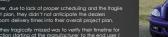
anticipating conflict (pmi.org)

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Causes & Impact of Poor Planning and
Scheduling
Unrealistic Schedules
Action
There are steps which an arganization can take to reduce the causes. For instance, using a strong project management concept coupled with a central data base for comparable estimates and actuals in both schedule and cast information; application of the resulting post experience on like projects when estimating initial schedules; using a network-based management approach to clearly identify the felevant factors inluencing the project schedule. The use of performance-incentive type contracts by clients and proposing use of same by contractory/vendors will inject both redust in information and a progmatic approach to schedule planning.
 Optimistic scheduling is used as a lever to force high personnel performance, a ploy which reduces the probability of meeting contract commitments rather than enhances it.







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Example of Poor Project Planning

- All suggestions were to simply ship out the cars to old rails and cities and let the dealers deal with the situation later.
- This proved to be a nightmare as dealers started losing their deposits as they had to refund the unsatisfied customers and the customers purchasing cars from other auto brands.



Project Management Plan

Project management plan is different from the project management schedule.
 Project management plan has other important project related plans like cost management plan, risk management plan....etc.



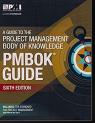
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- Another term used in the PMP examination and PMBOK 6th Edition is Schedule Management Plan.
- Schedule Management Plan is part of the Project Management Plan and has information on the plan project schedule and its management and control.

Section 6 of the PMBOK 6TH Edition. Project Time management was renamed from Project Time Management to Project Schedule Management. Research indicated support for the name change as project managers do not manage time, they define and manage the project schedule.



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The 6 Project Schedule Management processes are:

- Plan Schedule Management—The process of establishing the policies, procedures, and documentation for planning, developing, managing, executing, and controlling the project schedule.
 Define Activities—The process of identifying and documenting the specific actions to be performed to produce the project deliverables.
 Sequence Activities—The process of identifying and documenting relationships emong the project activities.
- Estimate Activity Durations—The process of estimating the number of work periods needed to complete individual activities with the estimated resources.
- Develop Schedule The process of analyzing activity sequences, durations, resource requirements, and schedule constraints to create the project seculation and monitoring and controlling.
- Control Schedule—The process of monitoring the status of the project to update the project schedule and manage changes to the schedule baseline.

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Project Schedule Management

- Establishing policies, procedures and documentation for planning, developing, managing, executing, and controlling project schedule.
- Project Schedule Management includes the processe required to manage the timely completion of the project.
- Project Schedule Management provides guidant direction on how the project schedule will be managed.

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Comparison
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Plan Schedule Management-Tools & Techniques Expert Judgement Opinions, advice, recommendations offered by people recognized as having specialized knowledge or haining in a specific area then move out to external groups if needed Data Analysis Process may involve choosing strategic options to estimate and schedule the project such as a poproaches, formate, and project management software. Techniques may include, but are not limited to: scheduling methodology, scheduling tools and techniques, estimate and schedule the project such as a poproaches, formate, and project management software. Techniques may include, but are not limited to: scheduling wave planning, applying leads & lags, alternatives analysis and variance analysis Meetings

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1. Plan Schedule Management-Outputs Schedule Management Plan The schedule management plan is a component of the project management plan that establishes the criteria and the activities for developing, monitoring, and controlling the schedule. The schedule management plan may be formal or informal, highly detailed, or broadly framed based on the needs of the project and includes appropriate control thresholds. Release and iteration length Units of measure. Organizational procedures links Project schedule model maintenance Control thresholds ALPHA St. Lawrence College

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The schedule management plan can establish the following:

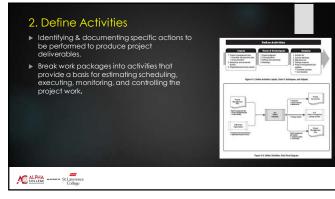
- Project schedule model development. The scheduling methodology and the scheduling tool to be used in the development of the project schedule model are specified.
- Release and iteration length. When using an adaptive life cycle, the time-baxed periods for releases, waves, and iterations are specified. Time-baxed periods are durations during which the team works steadily toward completion of a goal. Time-baxing helps to minimize scope creep as it forces the teams to process essential features first, then other features when time permits.
- Level of accuracy. The level of accuracy specifies the acceptable range used in determining realistic activity duration estimates and may include an amount for contingencies. Units of measure, Each unit of measurement (such as staff hours, staff days, or weeks for time measures, or meters, liters, tons, kilometers, or cubic yards for quantity measures) is defined for each of the resources.
- Organizational procedures links. The work breakdown structure (WBS) (Section 5.4) provides the framework for the schedule management plan, allowing for consistency with the estimates and resulting schedules.

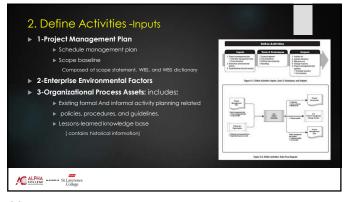
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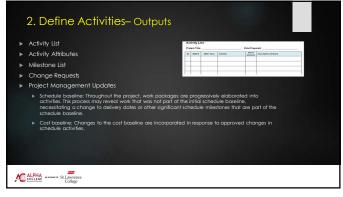
The schedule management plan can establish Froject schedule model maintenance. The process used to update the status and record progress of the project in the schedule model during the execution of the project is defined.

- Control thresholds. Variance thresholds for monitoring schedule performance may be specified to indicate an agreed-upon amount of variation to be allowed before some action needs to be taken Thresholds are typically expressed as percentage deviations from the parameters established in the baseline plan.
- Rules of performance measurement. Earned value management (EVM) rules or other physical measurement rules of performance measurement are set. For example, the schedule management plan may specify:
- Rules for establishing percent complete, EVM techniques (e.g., baselines, fixed-formula, percent complete, etc.) to be employed (for more specific information, refer to the Practice Standard for Earned Value Management [17]), and Schedule performance measurements such as schedule variance [SV] and schedule performance index (SPI) used to assess the magnitude of variation to the original schedule baseline.



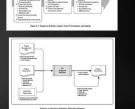






3. Sequence Activities

- Sequence Activities is the process of identifying and documenting relationships among the project activities.
 The key benefit of this process is that it defines the logical sequence of work to obtain the greatest efficiency given all project constraints.
- This process is performed throughout the project.
 Every activity except the first and last should be connected to at least one predecessor and at least one successor activity with an appropriate logical relationship.



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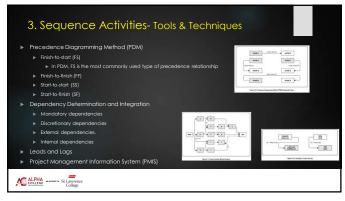
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3. Sequence Activities-Inputs

- Schedule management plan Scope baseline

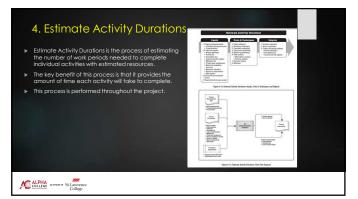
- ► The milestone list
- Organizational Process





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4. Estimate Activity Durations- Inputs

- Enterprise Environmental Factors

 - Published commercial information
 Location of team members
- Organizational Process Assets
 - Historical duration information
 Project calendars

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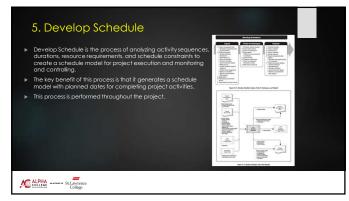


- Indication of the range of possible estimates
 Indication of the confidence level of the final estimate
 Documentation of individual project risks influencing this estimate

- Assumption logs
 Lessons learned register

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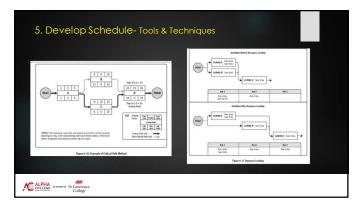




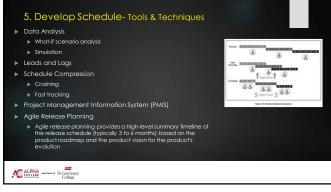




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