

A decorative graphic on the left side of the slide. It features a solid red arrow pointing to the right, positioned horizontally. Behind the arrow and extending upwards and outwards are several thin, curved black lines, resembling stylized grass or abstract brushstrokes.

Team Software Process



Working in Teams



- ❑ Successful teams are both satisfying and rare.
- ❑ Although many teams come close to meeting their product and business goals, they often do so at the expense of the team members.
- ❑ We describe a team that works together smoothly and efficiently as being a “jelled team.”
- ❑ A **jelled team** has a specific goal, a goal that is shared by all members. All members of a **jelled team** have a high sense of responsibility and commitment. All members of a **jelled team** feel they are accomplishing something of value.



Building Jelled Teams



- ❑ Artificially-jelled teams can be built quickly through “team-building” exercises.
 - ❑ retreats, seminars, workshops
 - ❑ games (paintball, laser tag, etc.)
 - ❑ contrived challenges (e.g., blind obstacle courses)
- ❑ Team-building activities are unlikely to produce long-term team success unless they address real workplace issues.
 - ❑ common understanding of roles, goals, products
 - ❑ management support of team needs
- ❑ The TSP is a proven-effective way of building jelled teams quickly.



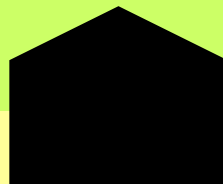
The Need for Personal Discipline

- ❑ Building successful high-performance teams requires more than technical ability; team members must be committed to the concept of personal discipline.
- ❑ Personal discipline means that all team members understand their own abilities and can make realistic commitments to each other and to management.
- ❑ Team members develop personal discipline by learning the principles of the Personal Software Process (PSP).

The TSP Strategy Rests on PSP

✕ The TSP strategy improves performance from the bottom-up.

Team
Software
Process



Personal
Software
Process

Team Management

Team communication
Team coordination
Project tracking
Risk analysis

Team Building

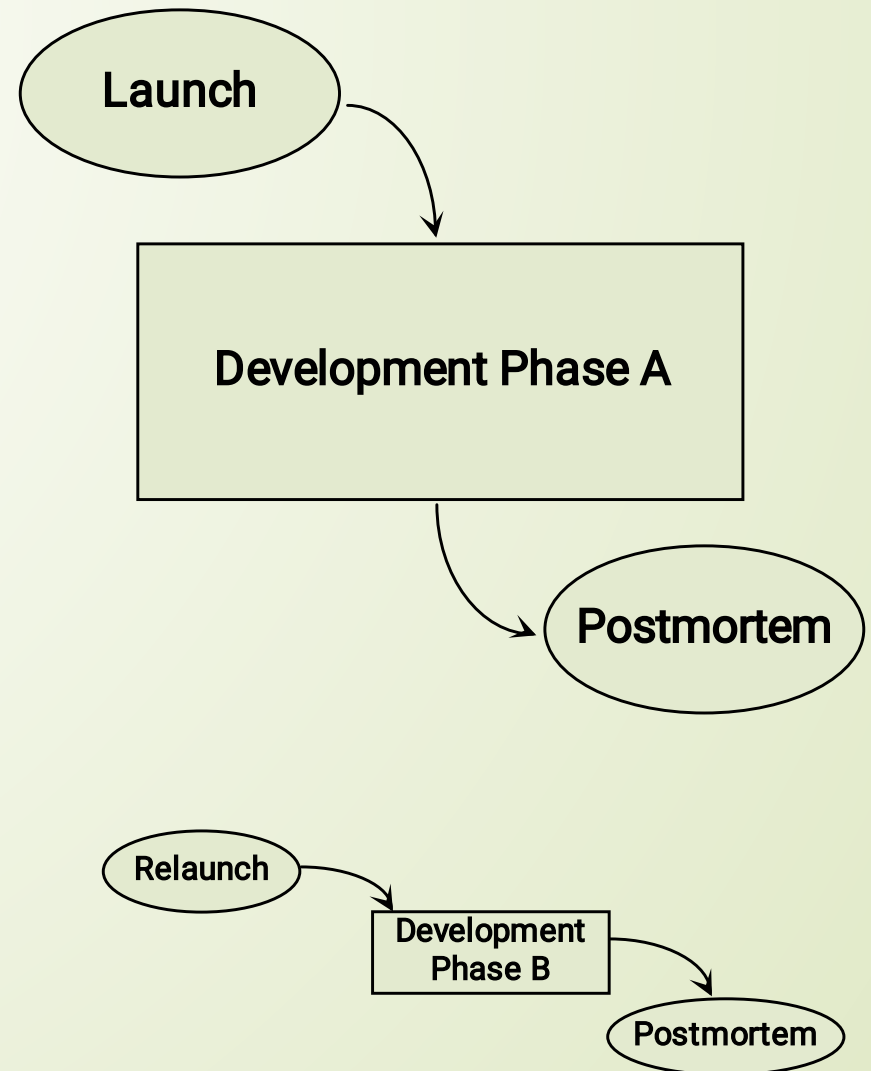
Goal setting
Role assignment
Tailored team process
Detailed balanced plans

Team Member Skills

Process discipline
Performance measures
Estimating & planning skills
Quality management skills

Building Teams with TSP

- ❑ TSP facilitates team-building through a defined team launch process.
- ❑ The launch process kicks off each major project phase.
 - ❑ The team establishes a common understanding of the work and the development approach.
 - ❑ A plan is produced to guide the next development phase.
 - ❑ Subsequent phases kick off with a relaunch process.



TSP Process Structure and Flow

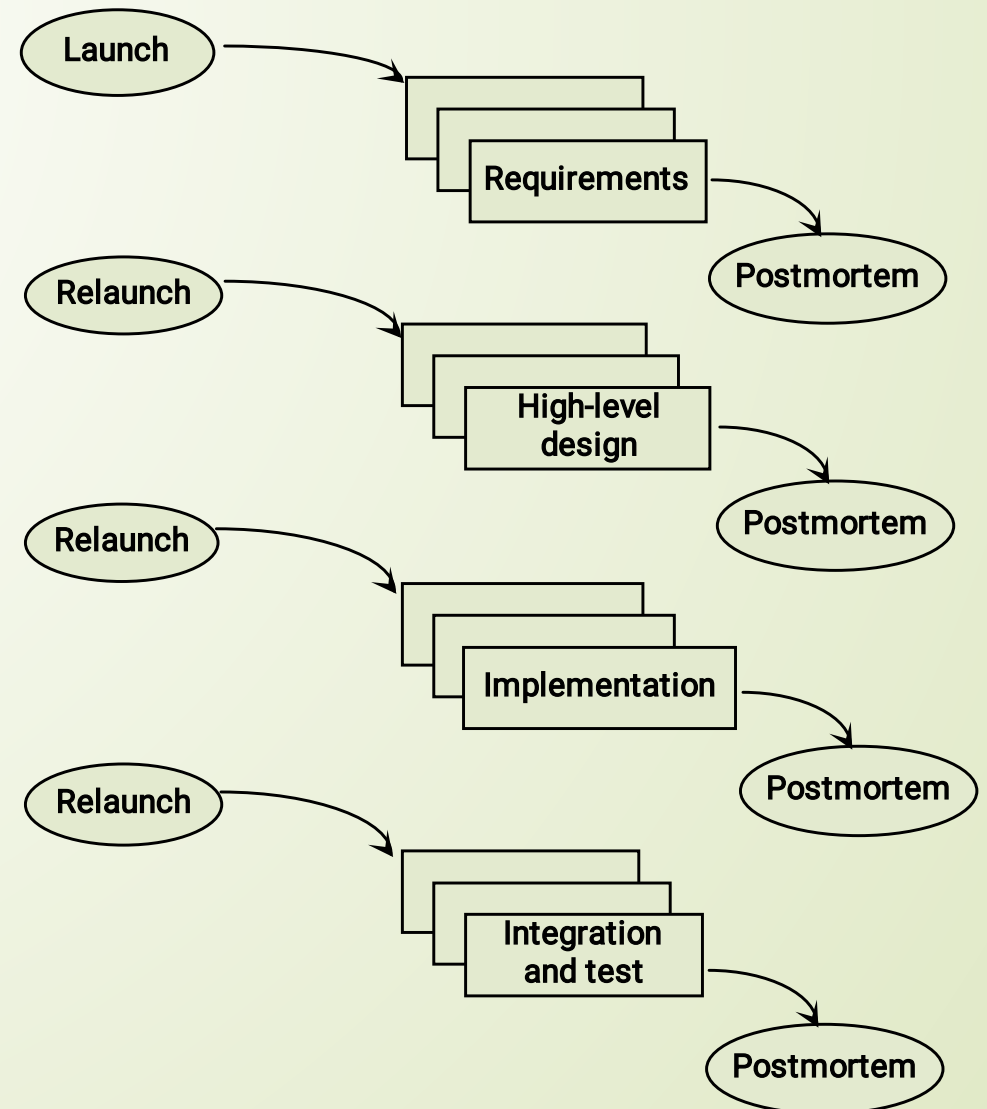
☒ TSP has four principal development phases.

☒ Requirements

☒ high-level design

☒ Implementation

☒ test





When to Launch



- ❑ A launch or relaunch occurs
 - ❑ at the beginning of every project phase
 - ❑ when substantive changes to the plan are required

- ❑ A launch may also be needed when new members are added to the team.
 - ❑ familiarize them with the team processes
 - ❑ integrate them into the team's plans
 - ❑ get their agreement with the goals




Purpose of the TSP Launch

- ❑ The purpose of the launch is to establish a common team understanding of the following project elements.
 - ❑ management's goals for the project
 - ❑ team and team members' goals
 - ❑ the roles that the team members will perform
 - ❑ the development work to be done
 - ❑ the processes that the team will use
 - ❑ the plan for doing the work
 - ❑ the management and customer reporting system
 - ❑ the ongoing team communication process



The TSP Launch Workshop

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- ❑ The TSP launch is a four-day workshop used to kick off each project phase.
 - ❑ During the launch workshop, the team produces a comprehensive plan for their work.
 - ❑ The team leader and all team members participate.
 - ❑ The launch workshop is considered to be part of the project work (it is planned and tracked).



Launch Postmortem



- ☒ The coach and team members meet to discuss how things went during the launch.
 - ☒ what worked well
 - ☒ what did not work well
 - ☒ suggestions for improving the launch process in future launches



The Weekly Team Meeting



- ☒ The weekly team meeting keeps the project on track by reviewing status and planned work for the team and each team member on a weekly basis.
- ☒ The meeting objective is to ensure that all team members
 - ☒ understand current project status
 - ☒ know what tasks are next
 - ☒ are aware of everyone's status and progress
 - ☒ know the status against the quality plan
 - ☒ discuss actions needed to ensure high quality
 - ☒ understand the key project issues and risks
 - ☒ participate in key team decisions


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- Suppose the following tables contain the historical data from past projects.
- Determine which one is the candidate size measure that is related to effort.
 - Apply regression model to selected candidate size measure in a) and predict the effort of project having 156 LOC/FP.

Table 1: LOC vs Dev time

LOC	Development time
10	5
20	10
50	25
60	30
70	35
80	40
90	45

Table 2: FP vs Dev time

Functional Point	Development time
2	5
4	4
6	8
8	7
10	6
12	10
20	9