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The Formal Methods Model:

→ set of activities that leads to formal mathematical specification of computer software

→ enables a software engineer to specify, develop and verify a computer-based system by applying a rigorous, mathematical notation.

→ A variation of this approach is called "cleanroom software engineering".

→ provide a mechanism for eliminating many of the problems that are difficult to overcome using other paradigms.

→ Ambiguity, incompleteness can be discovered more easily. Help software engineers to discover and correct errors that might go undetected.

→ Following are its concerns in business environment

a) It is very time consuming and expensive.
b) Few software developers have the adequate background to apply formal methods.
c) Extensive training of engineers is required.
d) It is difficult to convince customers to

use the software. It is difficult to use the models as a communication mechanism for technically unsophisticated customers.

Chapter: Managing Software Projects

Effective software project management focuses on the four P's: PEOPLE, PRODUCT, PROCESS, PROJECT.

PEOPLE

The people management maturity model (PM-CMM) defines the following key practice areas for software people:

a) recruiting → reduce false positives
b) selection
c) performance management
d) training → internal bootcamps, etc.
e) compensation → very much competitive
f) career development → nurture engineers
g) organization and work design
h) team culture development → sense of belongingness.