

Steps for Risk Identification:

- 1. **Brainstorming Sessions:** Involves team discussions to identify risks.
- 2. **Historical Data Review:** Analyzing past project challenges.
- 3. Stakeholder Inputs: Collecting feedback from customers, team members, and sponsors.
- 4. **SWOT Analysis:** Identifying strengths, weaknesses, opportunities, and threats.
- 5. **Expert Judgement:** Consulting experienced professionals for insights.

Tools for Risk Identification:

- 1. Checklists: Predefined lists of potential risks.
- 2. Risk Breakdown Structure (RBS): Hierarchical categorization of risks.
- 3. Cause-Effect Diagram: Visual representation of risk causes and effects.

Example of Identified Risks:

Risk Category Impact

Technology becomes obsolete Technical Risk High (Delays project)

Team member leaves Organizational Risk Moderate (Resource gap)

Budget overruns Management Risk High (Financial strain)

Summary:

Risk identification is crucial for the success of any software project. By identifying risks early, teams can prepare to mitigate or manage them effectively, ensuring smoother project execution and delivery.

This structured approach helps students understand the significance of addressing risks in software engineering.