

APSC 101 Study Notes
Intro to Engineering II

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1. Professional Skills

1.1. Tuckerman's Stage of Development

Tuckerman's Stages of Development: Forming, Storming, Norming, Performing

Tuckman's Stages of Team Development



1.1.1. Important Notes

- relationships within members get BETTER over time
 - this includes storming, as team members are more willing to speak their minds
- conflict occurs at all stages

1.1.2. Good vs Bad Norming

- Good norming is healthy
- Bad norming → team dysfunction
 - e.g. one team member routinely misses meetings and team does nothing

1.2. Conflict Management

Conflict Management Styles



Avoiding: Good when tensions high.

Accommodating: Good when the issue matters more to the other party.

Competing: Good when issue is self-critical and immediate.

Compromising: Good if time is short and relationships/problem must be balanced.

Collaborating: When you have time to work towards finding the ideal solution for everyone.

Good teams change their style as situation demands.

2. Risk Management

$\text{Risk} = \text{Severity} \times \text{Likelihood}$

$\text{Risk} \neq \text{Hazard}$

Risk: *Possibility* of harm, consequences, or damage.

Hazard: *Capacity* of equipment, material, or processes to cause harm.

2.1. Risk Sources

Preventable: Controllable.

General time management issues included, such as not anticipating delays.

Strategic: Taken for possibility of greater reward.

For example, rushing through decision making stages for earlier project completion, this is a strategic risk, not preventable.

External: Outside of control.

2.2. Risk Tools

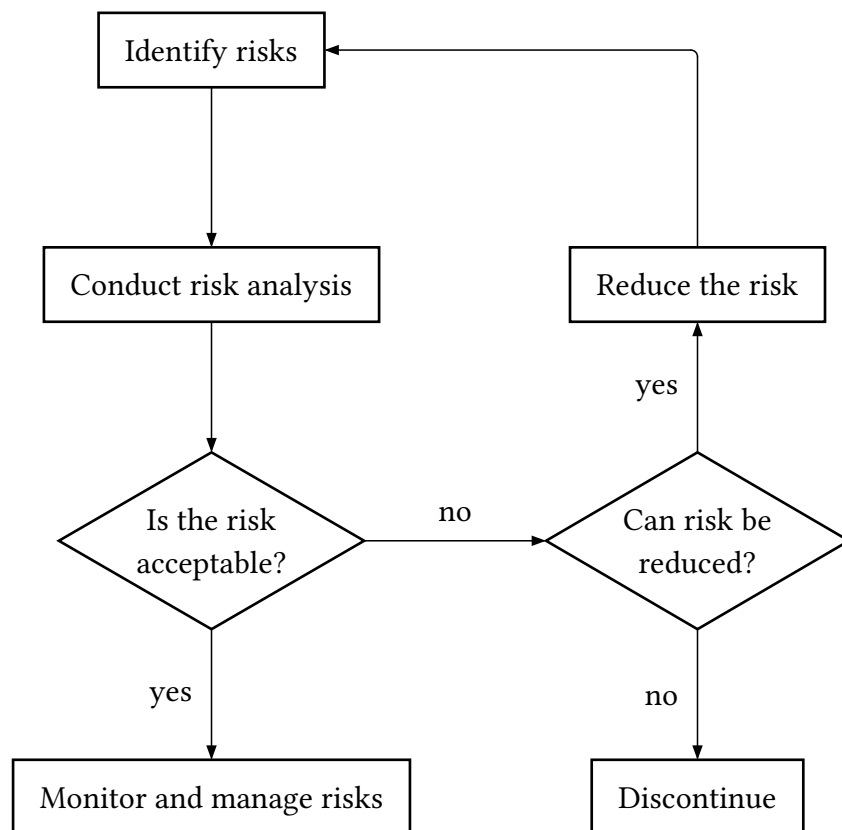


Figure 1: Risk Management Process

		RISK SOURCE		
		Preventable	Strategic	External
RISK CATEGORY	Safety			N/A
	Technical			
	Project Management			
	Operational			

Table 1: Risk Classification Table

A risk classification table is a tool used to identify and classify risks based on their severity and likelihood.

		SEVERITY				
		1	2	3	4	5
LIKELIHOOD	5					
	4					
	3					
	2					
	1					

Table 2: Risk Matrix

ID	DESCRIPTION	SEVERITY	LIKELIHOOD	RATING	MITIGATION
1					
2					
3					

Table 3: Risk Register