



CONSTRUCTING LEADERS PROGRAMME

Leadership, Excellence, Accreditation & Development

Module 3 / Session 1 : Programming & Site Operations



CONSTRUCTING LEADERS

PROGRAMME OVERVIEW



1. LEADERSHIP & PEOPLE MANAGEMENT



2. DIFFICULT CONVERSATIONS



3. PROGRAMMING & SITE OPERATIONS

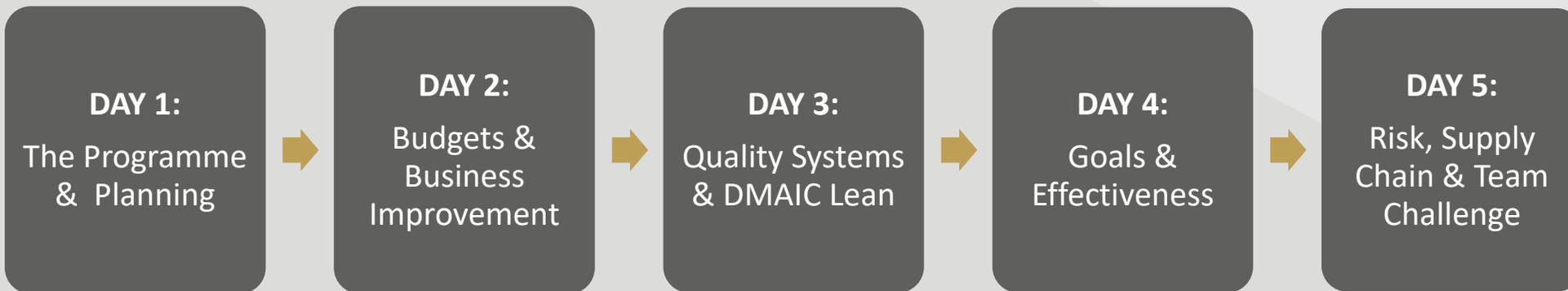


CALA CONSTRUCTION
ACADEMY OF EXCELLENCE

MODULE OBJECTIVES

1. *Planning and putting team members to work on site to improve quality and team performance*
2. *Setting & managing site plans and programmes to meet CALA standards and achieve key milestones*

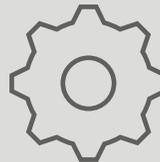
CONTENT OVERVIEW



SUPPORT



WORKBOOKS



ESSENTIAL ELEMENTS

How do we ensure we deliver a great site and programme?

- Proactive thinking and strong management of people, resources and time throughout
- The need for and importance of CALA Way documentation in the planning and programming of construction works
- The relationship between planning, monitoring and control
- Your own role within this process and the need for personal accountability and responsibility whatever the stage of build.

The programme is key to delivery success



SUCCESS FACTORS

Road Safety (CLOCS) Case Study

- What did the managers of this programme get right and why?
- What innovation was shown?
- How did the construction sector benefit from this?



Road Safety (CLOCS)

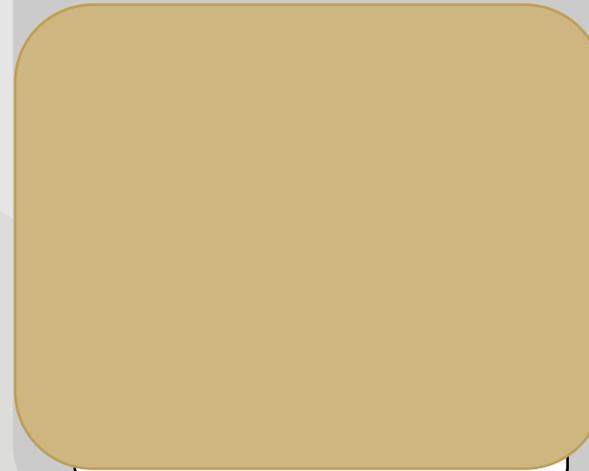
THE PROGRAMME IS KEY...

IDENTIFY, ASSESS, REVIEW, CONTROL,
MITIGATE & MONITOR

CAUSE



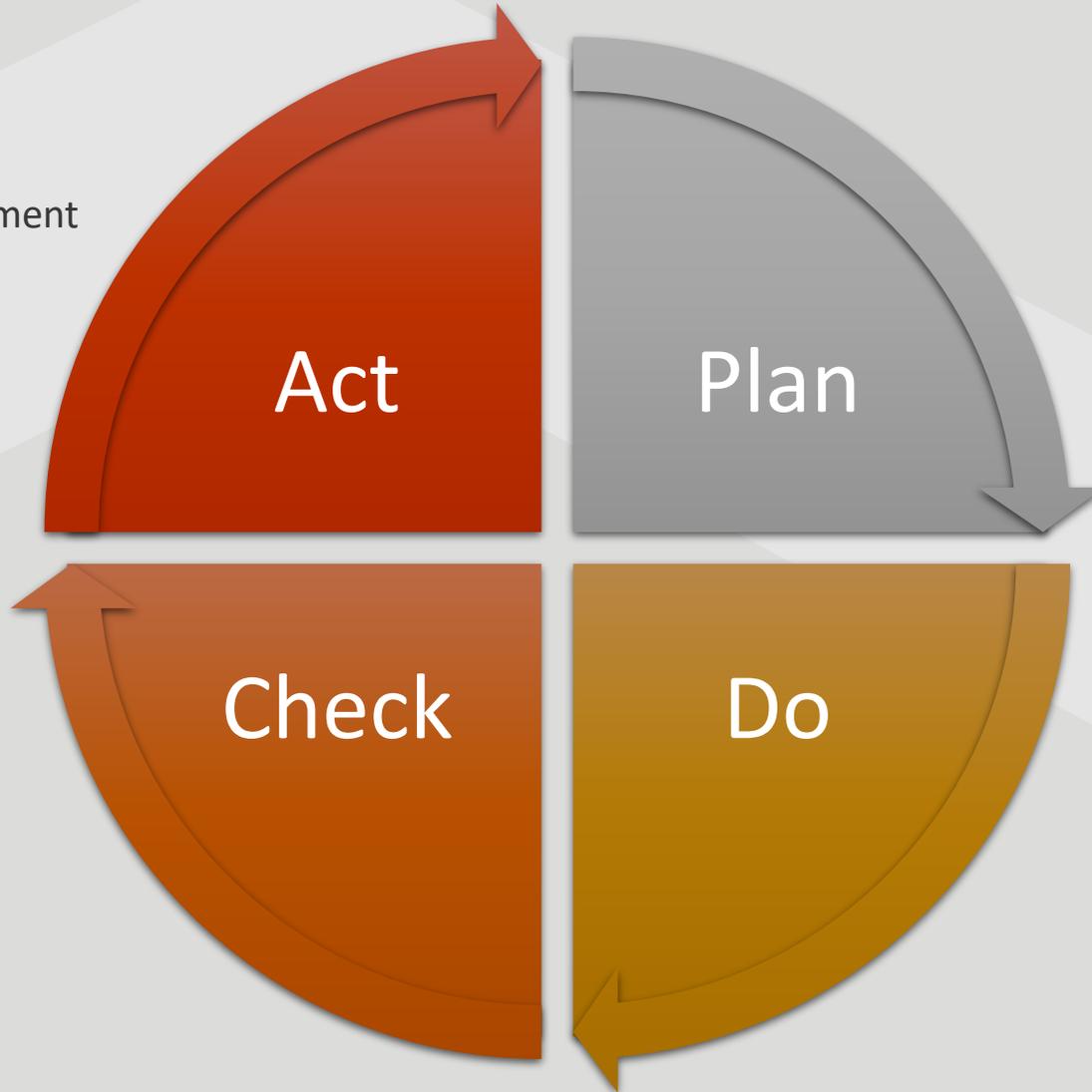
EFFECT



PLANNING ESSENTIALS

WHAT NOW?

- Review
- Project revision
- Standardisation
- Share learnings
- Further improvement



WHAT FOCUS?

- Project goals/measures
- Set up team
- Map process
- Measure process
- Identify key problems
- Find root causes
- Identify solutions
- Plan for implementation

WHAT HAPPENED?

- Measurement
- Assessment
- Analysis

WHAT ACTION?

- Prepare for implementation
- Training
- Communication
- Implement improvement
- Change management
- Project management



Plan Do Check Act

PROACTIVITY & FUTURE PROOFING SUCCESS

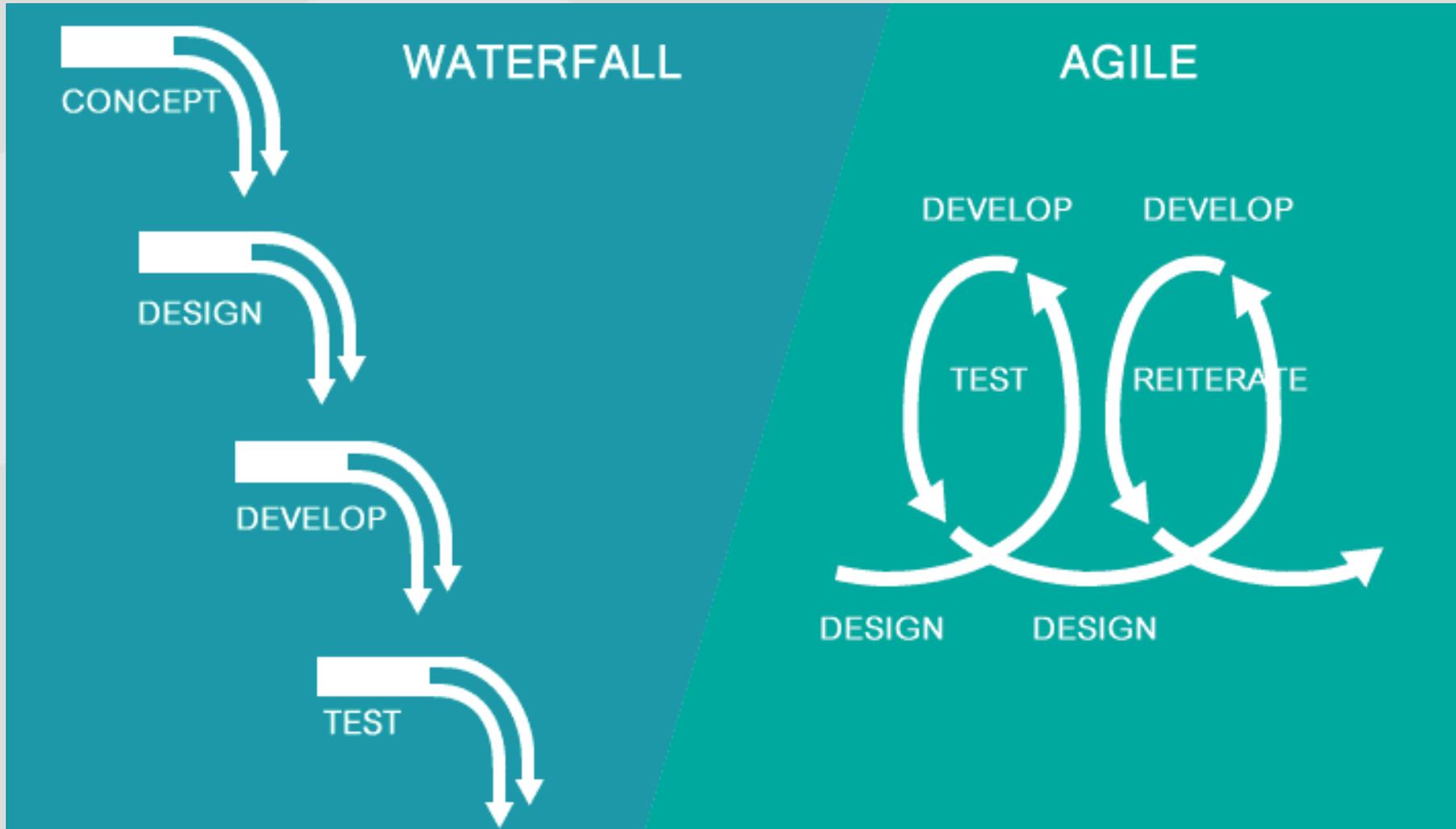


Circle of C
Circle of In

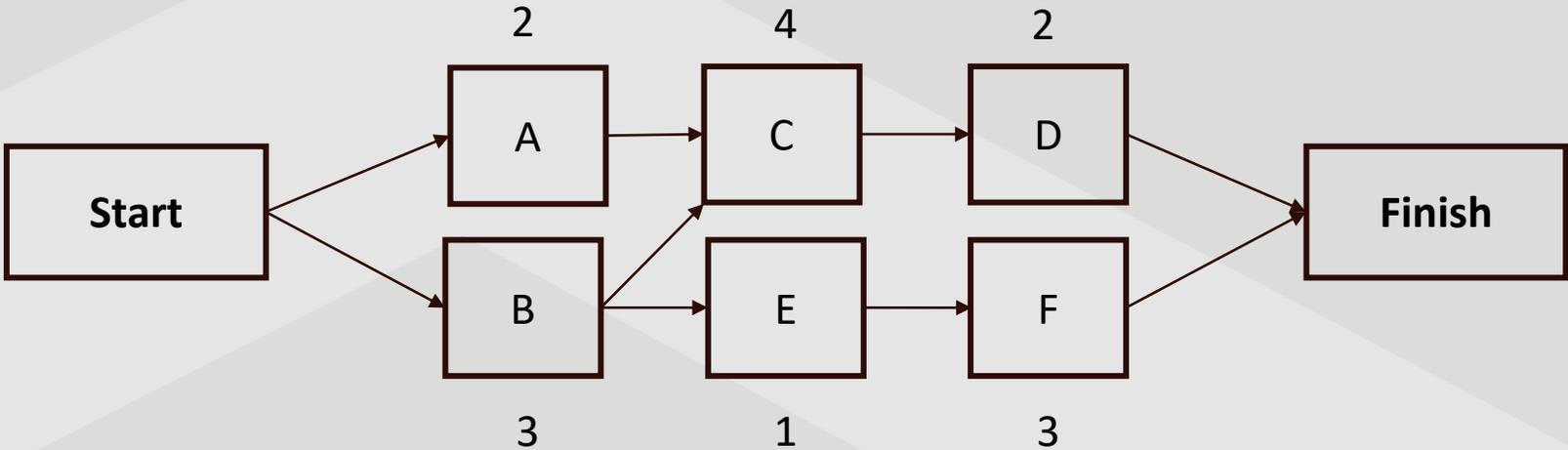
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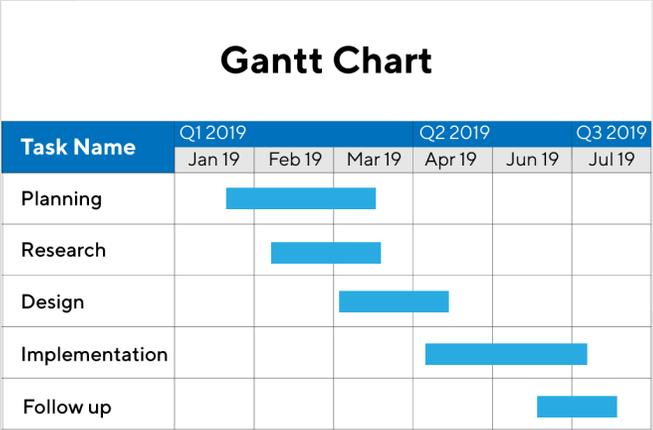
PROJECT MANAGEMENT APPROACHES



THE CRITICAL PATH, GANNT AND P.E.R.T



Early Start	Duration	Early Finish
Activity		
Late Start	Float	Late Finish



The Critical Path & P.E.R.T

P.E.R.T DEMONSTRATION

Early Start	Duration	Early Finish
Activity		
Late Start	Float	Late Finish



The Critical Path
& P.E.R.T

CRITICAL PATH EXERCISE

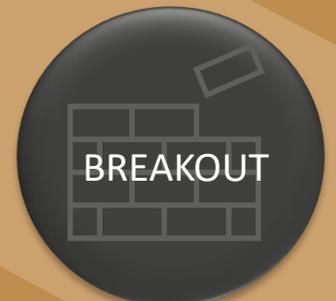
Instructions

Using the list of tasks provided in the handout, create a simple Critical Path which shows us how you would plan the programme of delivering the car to the customer.

You should allow for contingent tasks, time lags and start and finish times. Please estimate the times as they are not given.



BMW



SPANISH PROJECT



Spanish Project



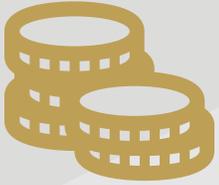
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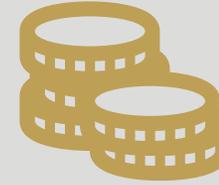
Module 3 / Session 2 : Programming & Site Operations



BUDGET MANAGEMENT



Roles & Responsibilities



1. Which areas of budget management are you involved in primarily day to day?
2. What means do you use to capture their budget management and who do you report it to?
3. What happens if the budget is being exceeded?

BUDGET MANAGEMENT

Contracts/Construction Manager

- Set objectives
- Scan environment
- Plan and make decisions

Senior Site/Project Manager

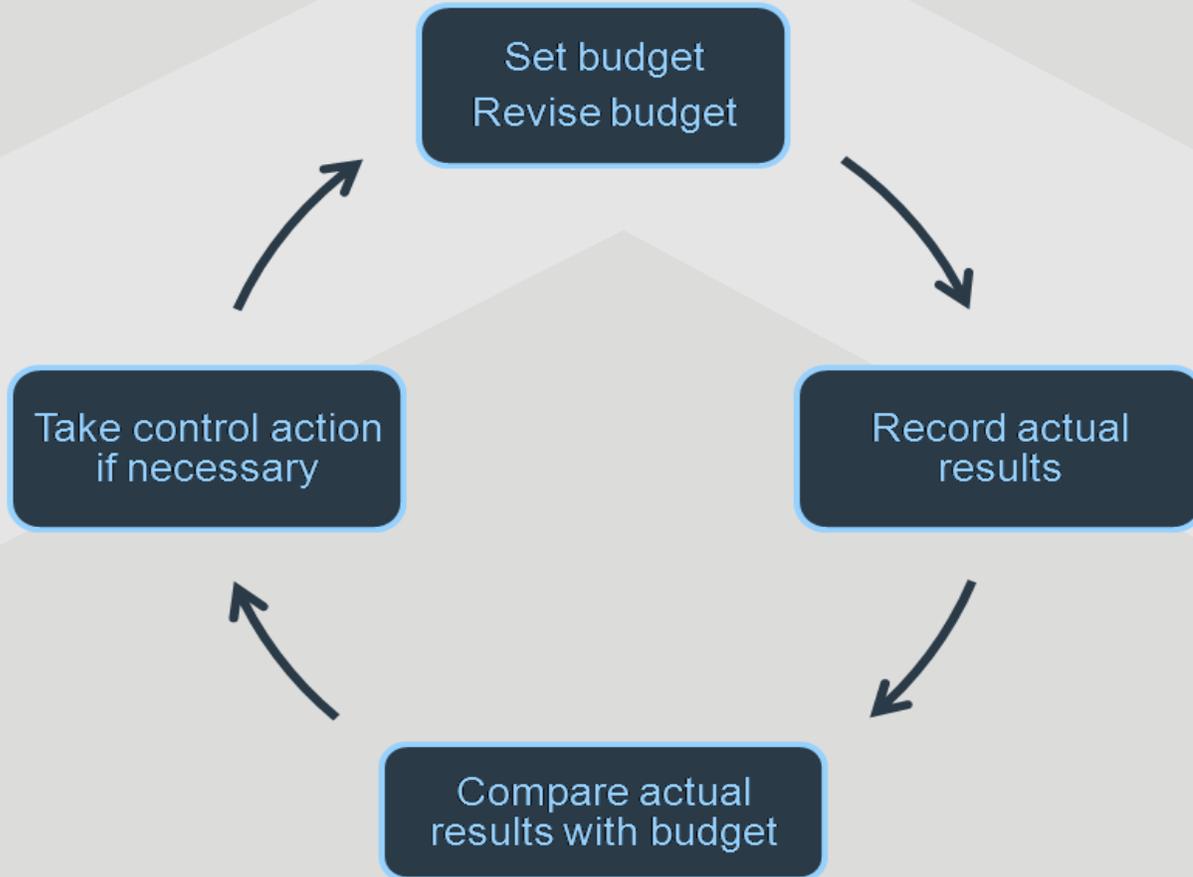
- Allocate resources
- Develop and implement activities

Assistant/Site Manager

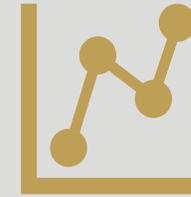
- Coordinate activities
- Supervise trades/operatives
- Manages day to day operations



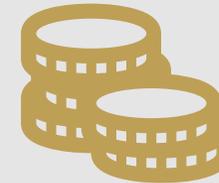
BUDGET CYCLE



Cost Benefit Analysis



Pay Back Periods



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Budgeting & CBA

BUDGET CYCLE



C15		fx =D7/D13	
A	B	D	
1			
2	Option 2	Calculation	Total
3	Benefits		
4	A) Income from Rentals	(20 * 5 * 3000)	300000.00
5	B) Income from Sales	(80 * 200000)	16000000.00
6	C) Income from the Sales After Rent Period	(20*120000)	2400000.00
7	D) Total Benefits (A + B + C)		18700000.00
8			
9	Costs		
10	E) Construction Cost	(100 *150000)	15000000.00
11	F) Sales and Staff Cost	(2*450000)	900000.00
12	G) Financing Cost	(2000000 *1)	2000000.00
13	H) Total Costs (E + F + G)		17900000.00
14			
15	Benefit Cost Ratio (D /H)	1.04	
16			

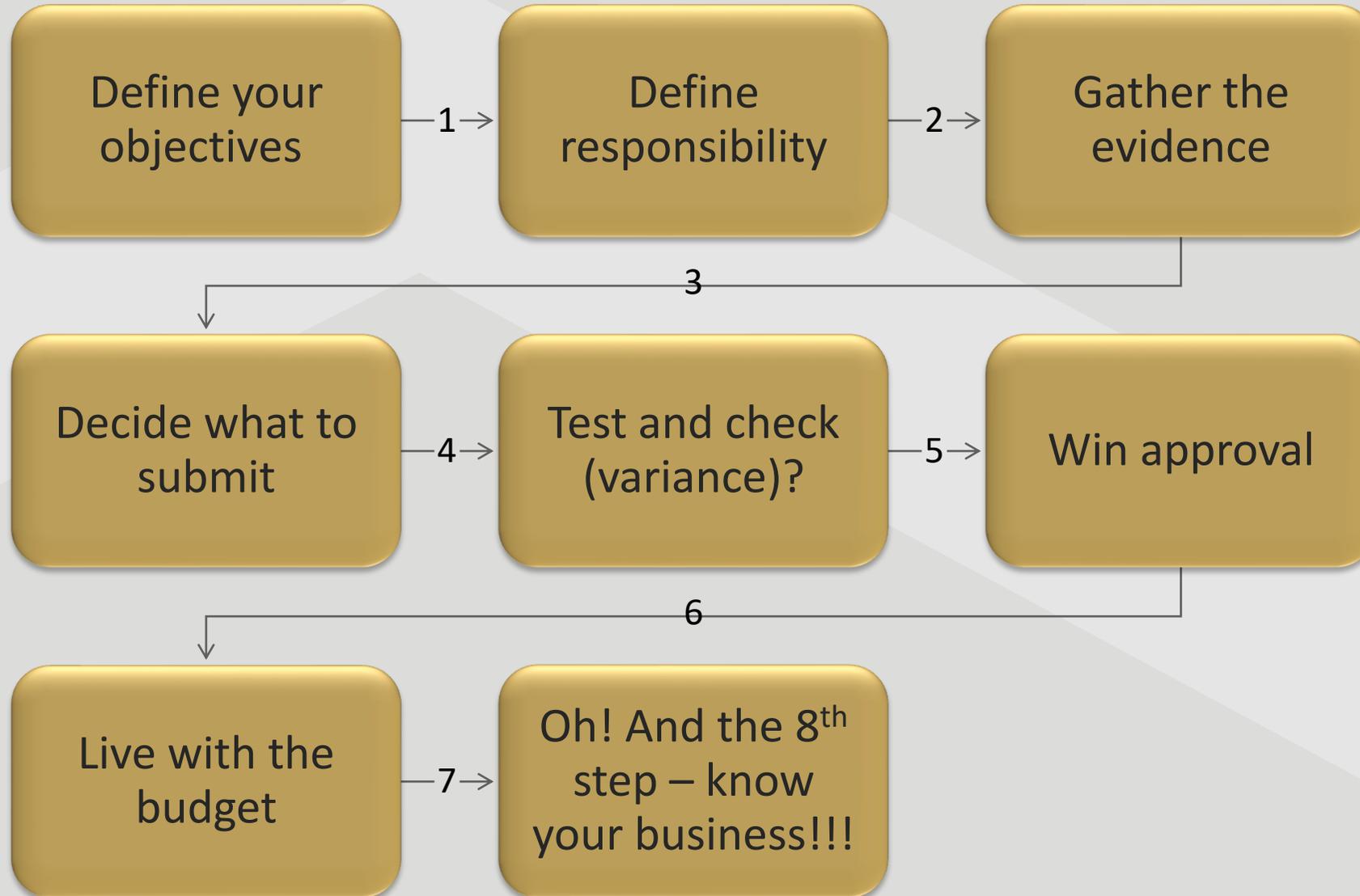
Benefit- Cost Ratio = Benefits available from the project / Total value of Costs



Budgeting & CBA



THE 7 STEPS



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Budgeting & CBA

CALA WAY - PRELIMS STANDARDS

Each region has committed to adopting the new approach.

Commitments include:

- PTP Budget realism ensuring a reduction of construction Prelim cost increases after site start.
- Site Staffing of all project types in line with the approach document
- Management of Hourly paid overtime in the longer term and cost control
- Reduction of the reliance on Site Operative Agency staff and to have an improved culture of CALA directly paid staff looking after our on-site interests.
- The reduction in the use of Gatemen and store man throughout developments.
- To create a targeted cost reduction in £ sq/ft terms over the next 12 months and beyond.



SCOPE OF WORKS

1. How important is a SOW in successful programme management?
2. What should a manager be doing to ensure success in the creation and delivery of a programme using a SOW in the areas of:
 - *Deliverables*
 - *Timeline*
 - *Milestones*
 - *Reports*



Scope gaps are the result of committing to a project before the project requirements are complete.



Scope of Works

LEAN SIX SIGMA USING DMAIC



DEFINE
Define the
problem



MEASURE
Quantify the
problem



ANALYSE
Identify the
cause of the
problem



IMPROVE
Implement and
verify the
solution



CONTROL
Maintain the
solution



HANDOUT



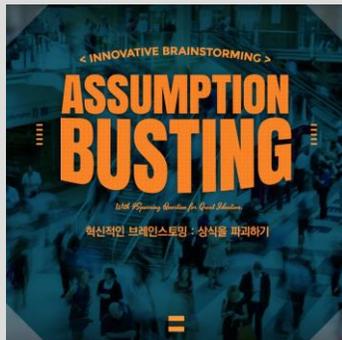
LEAN & DMAIC

GROUP EXERCISE

1. **Define** the common sources of waste on a typical site and **Discuss** current ways of dealing with them.
2. **Use** these two models to define, analyse and suggest ways to improve current approaches to waste management

Assumption Busting

Why do we do that?



Absence Thinking

What is missing from what we do?



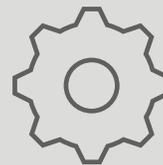
Creative Thinking Tools



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WORKBOOKS





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THE COST OF QUALITY



Prevention Costs

- Planning
- Process
- Control
- Quality Audits
- Supplier Evaluation
- Training
- Design Review
- Risk Assessment

Appraisal Costs

- Inspection
- Document Review
- Quality Audits
- Calibration
- Test Materials
- Test Product

Internal Failure Costs

- Scrap
- Re-work
- Missing Documents
- Problem Solving
- Sorting
- Retest
- Redesign
- Downgrading
- Variation
- Unplanned downtime

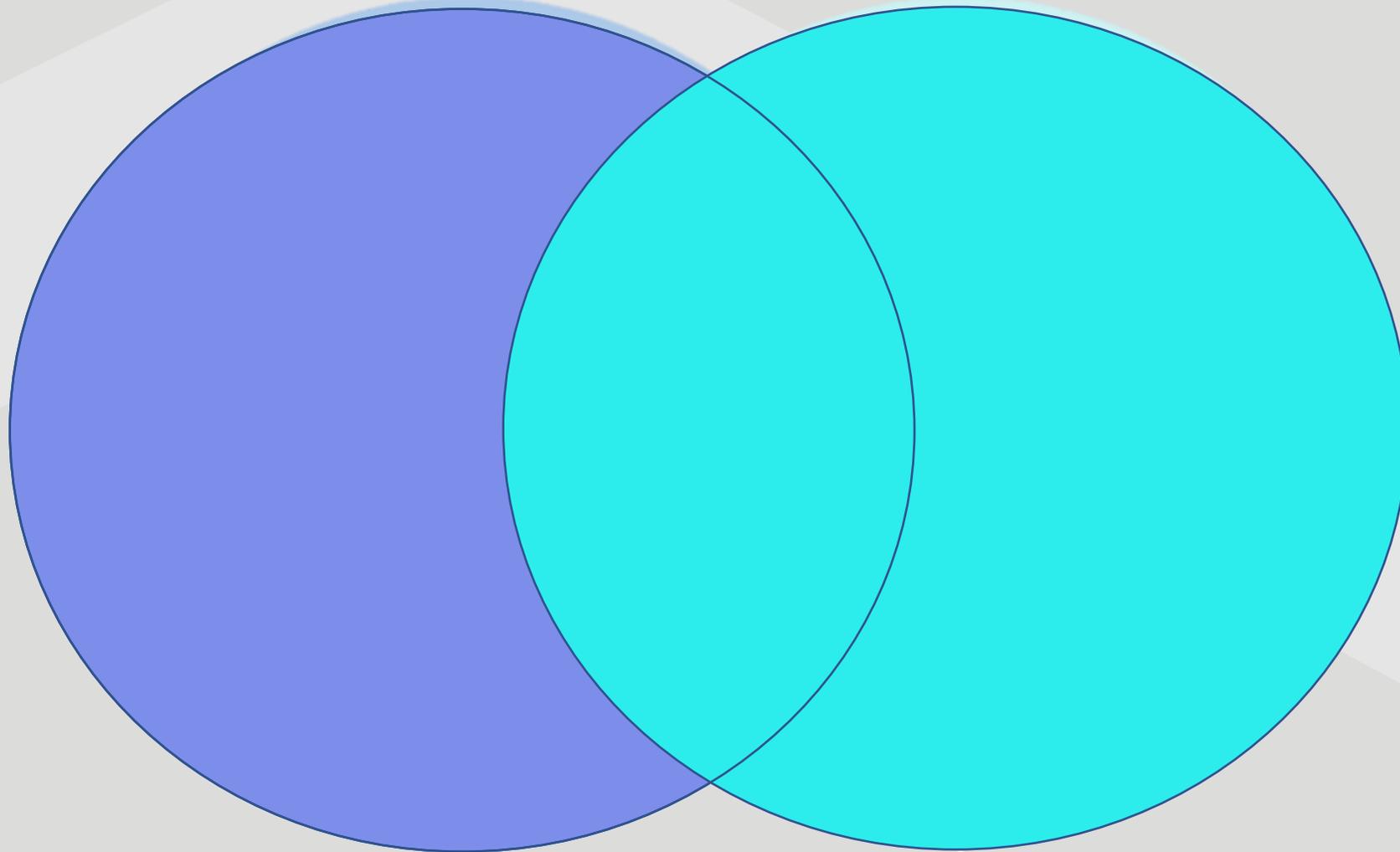
External Failure Costs

- Warranty charges
- Complaints
- Returned Material
- Late delivery penalties
- Re-work after installation
- Lost Opportunities

QUALITY APPROACHES

Quality Assurance

Quality Control



Quality

COST PRODUCTION QUALITY TRIANGLE



Quality



QUALITY SYSTEMS AND METHODS



Quality

QUALITY SYSTEMS AND METHODS



Quality

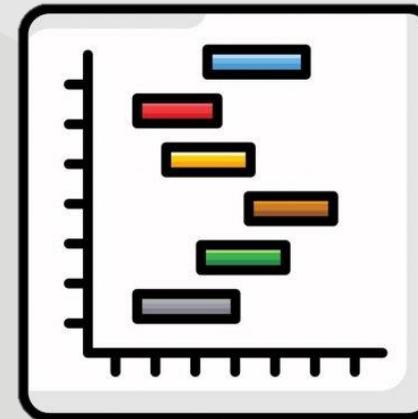
STANDARD OPERATING PROCEDURES (SOP)

What SOPs (work methods) are used to deliver quality and/or H&S?

Instructions

Create a short SOP using the template provided which analyses an approach to work quality.

Set it out clearly using the 7 stages.

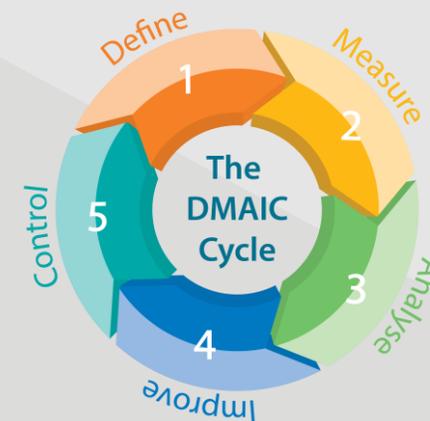
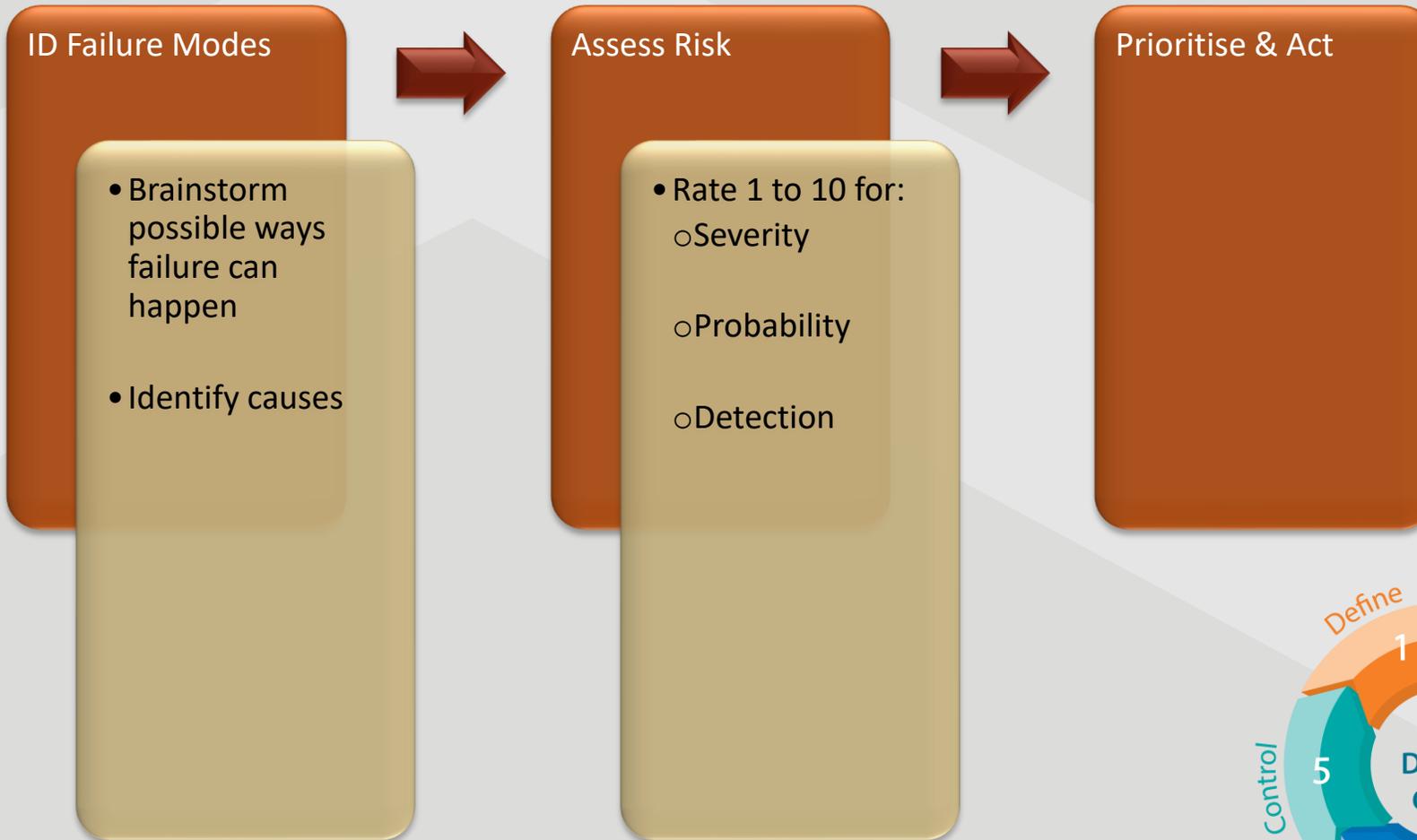


SOP



BREAKOUT

FMEA THINKING

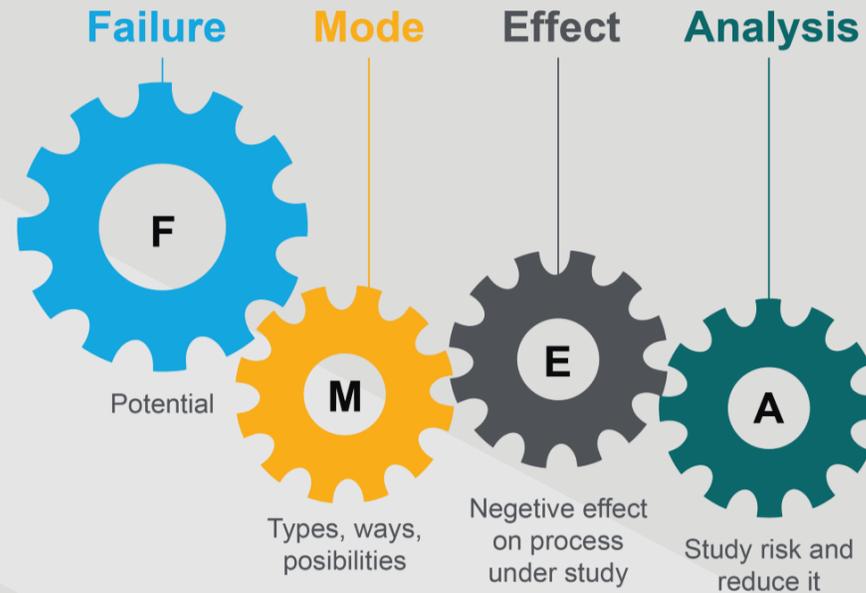


FMEA

FMEA THINKING

Consider the following scenarios and apply FMEA thinking to them.

- *What do you do to analyse and resolve?*
- *What do you do to recover the time lost*
- *Who pays?*
- *What are the contingencies?*
- *Is the tone and reaction different for each of the scenarios and why?*



Scenario 1

Trades have been booked to attend on site but have not arrived.

Scenario 2

Trades are present but materials have not been ordered in sufficient quantities/allocations.



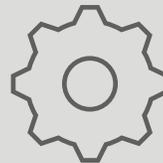
FMEA



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SETTING TARGETS & OBJECTIVES



What's the difference between strategic and operational targets?

How do we know we are on track to meet both areas?



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HANDOUT

Goal Setting &
Planning

S. T. O. P. PERSONAL PLANNING



Planning 20 mins per day is only 5% of the working day



Goal Setting &
Planning

PERSONAL EFFECTIVENESS

Agree 10 daily tasks, position them in the matrix

URGENCY

HIGH

LOW

HIGH

DO IT NOW!

PLAN TO DO IT

LOW

DELEGATE IT

DITCH IT!

IMPORTANCE



Eisenhower
Matrix

MANAGING POOR PERFORMANCE



CAPABILITY (Can't)	CONDUCT (Won't)
Making an effort but not achieving the required improvement	Is not making enough effort
Received the relevant training but has not acquired the relevant skills	Is not applying the skills they have
Admits they are not achieving the required standard	Does not agree on the problem identified
Cannot obtain the relevant qualifications	Is not interested in obtaining the relevant qualifications
Does not seem able to get there	Is not willing to get there
Low output of work	Does not seem interested in improving
Takes long-term sickness	Takes unauthorised absences



Can't /Won't

RATING TEAM AND SITE EFFECTIVENESS



Discuss and assess the ways you monitor this on site and how you set team goals linked to them.

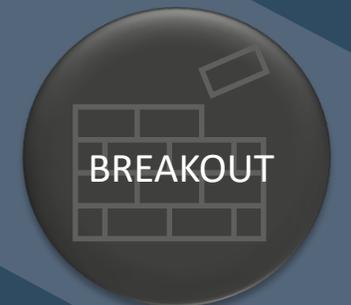
How can you demonstrate you are meeting your targets in the RATER areas?



HANDOUT



Service Quality Scale

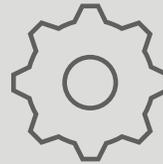


BREAKOUT

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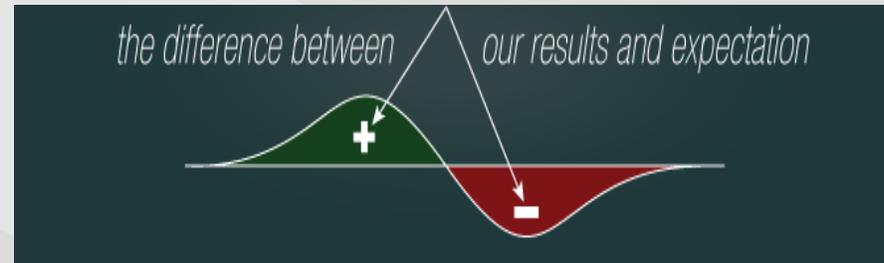
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Module 3 / Session 5 : Programming & Site Operations



CAUSES OF VARIANCE

- Risks (known and unknown)
- Environmental Factors
- Financial and Supply Chain
- Labour Supply
- Buildability Gaps
- MySite record keeping
- Skills Gap (performance)
- Customer Expectation
- Sub Contractor relationships
- Other?

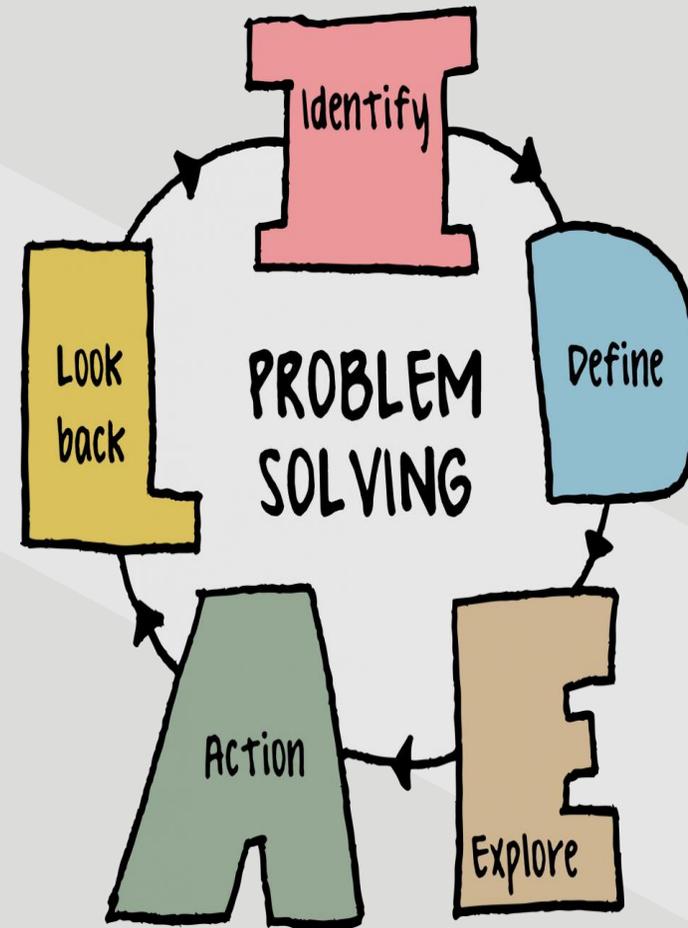


PROBLEM DEFINITIONS

Using the handout, discuss in groups each of the problem areas and be prepared to feedback a list of problems assigned to these areas.

Problem Types

- Deviation
- Efficiency
- Variation
- Innovation

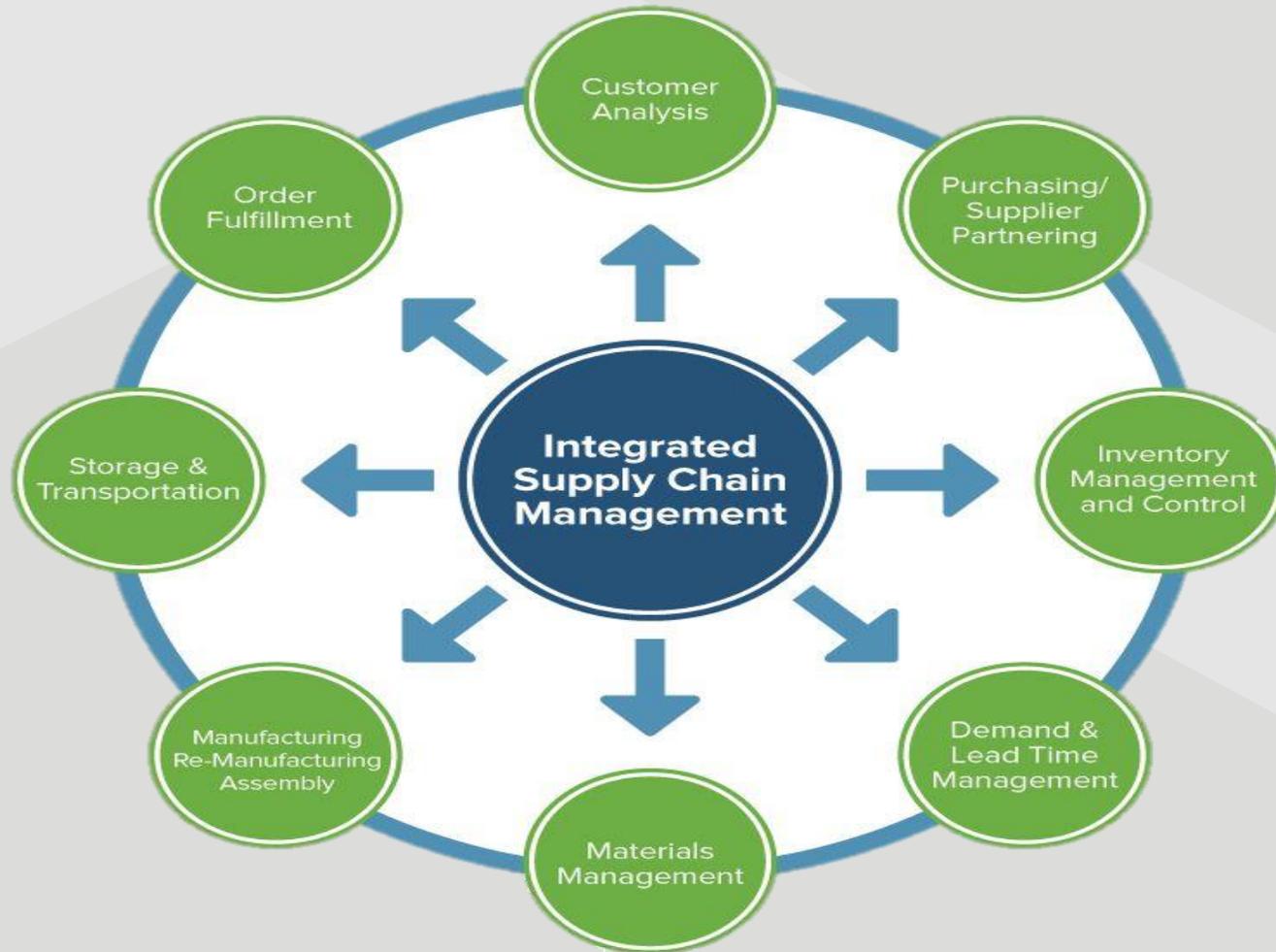


Problem Solving



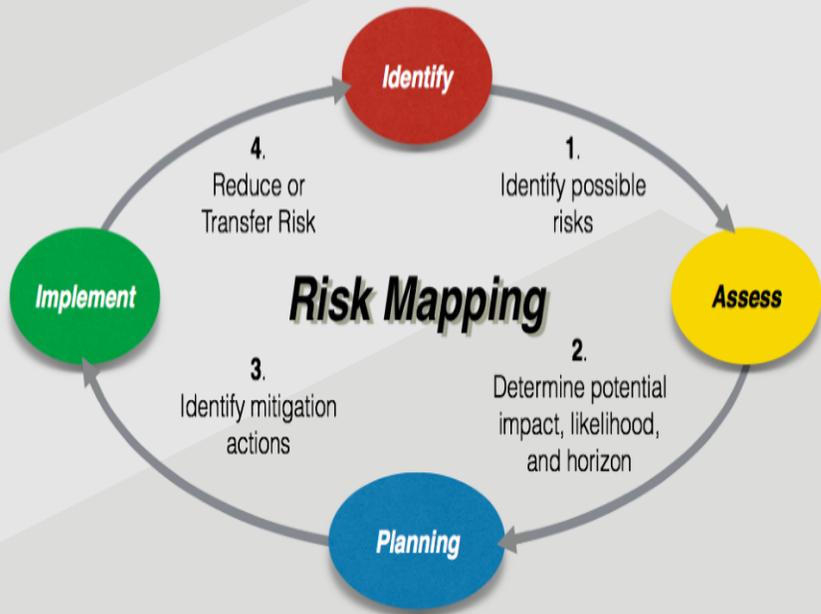
SUPPLY CHAIN MANAGEMENT

I personally have the most influence in the process...



Supply Chain

RISK MAPPING



Using the risk template and feedback, select TWO environmental issues CALA/you might encounter in planning to build.

Explain how they could impact upon the delivery of a site and how CALA could make sure their impact is managed.



Risk Mapping



SITE ENVIRONMENTAL TEAM ROADMAP

PROGRESSION

TARGET

Quarter 1

Quarter 2

Quarter 3

Quarter 4

Environmental management system (EMS) - appoint a consultant to help us develop an ISO 14001 compliant EMS.

Water - review existing data/capture methods for water use on site.

EMS - develop an ISO 14001 compliant environmental management system.

EMS - develop a suitable environmental audit and inspection format.

Water use on site – research to be carried out into use of more water efficient mortar product.

Waste - set up a waste minimisation team to review standard house types.

Energy - review all existing data to confirm accuracy and to determine suitable energy reduction targets.

Water run-off - Standard Water Management Plan template to be in place across all sites.

Training - environmental awareness training to be rolled out for all employees.

Waste - set up a waste reduction review based on early data and start regional specific target areas.

Energy - carry out a review of use of PRV's or similar technology on site cabins and determine viability.

Spill control - develop standardised Emergency Response Plan (environment).

Training - roll out suitable environmental course for construction/site managers.

Energy - implement carbon offsetting of telehandler fleet.

Energy - determine viability of increasing use of green/renewable electricity supply to site compounds.

Waste - review all existing waste data to determine suitable waste reduction targets.

Water use on site – agree % reduction target for 2022.

Waste – agree % reduction target for 2022.

Waste - review suitability of existing waste management Group deal – identify additional cost savings and, or opportunities to increase waste re-use/recycling.

Waste - carry out a waste management audit to ensure that all required waste documentation is readily available on site.

Energy – develop a plan to detail an 'off grid' approach to site compounds.

2022

2021

EMS Development, Data Verification & Target Setting

REMEMBER...THE PROGRAMME IS KEY

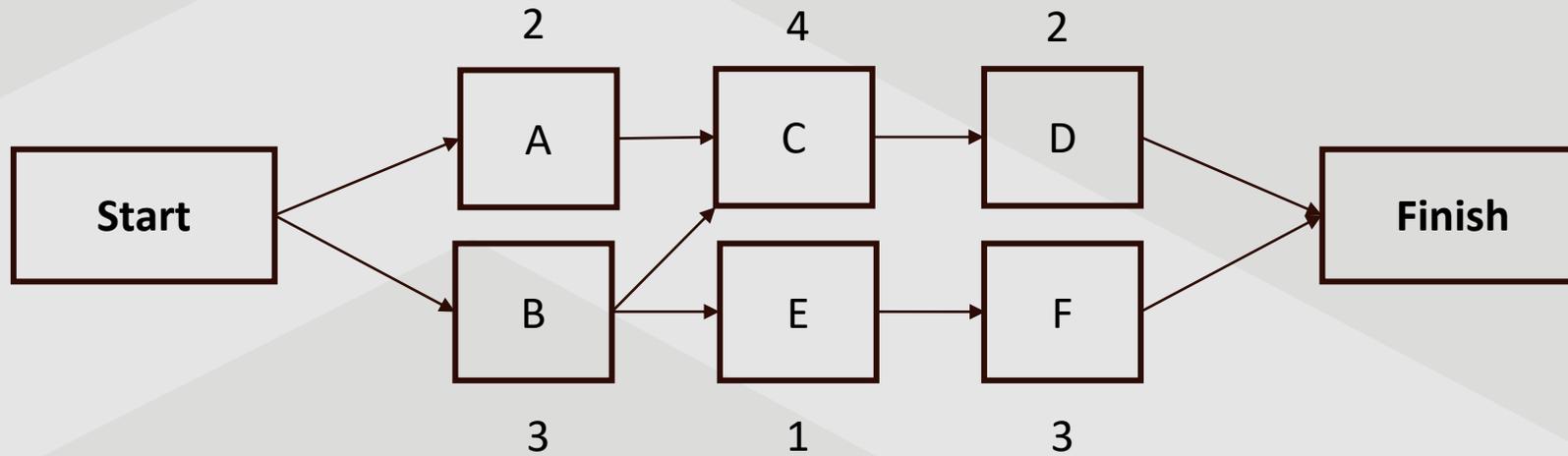
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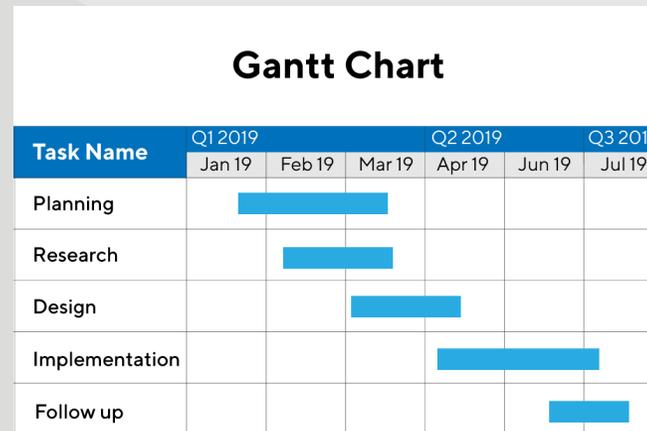
EFFECT



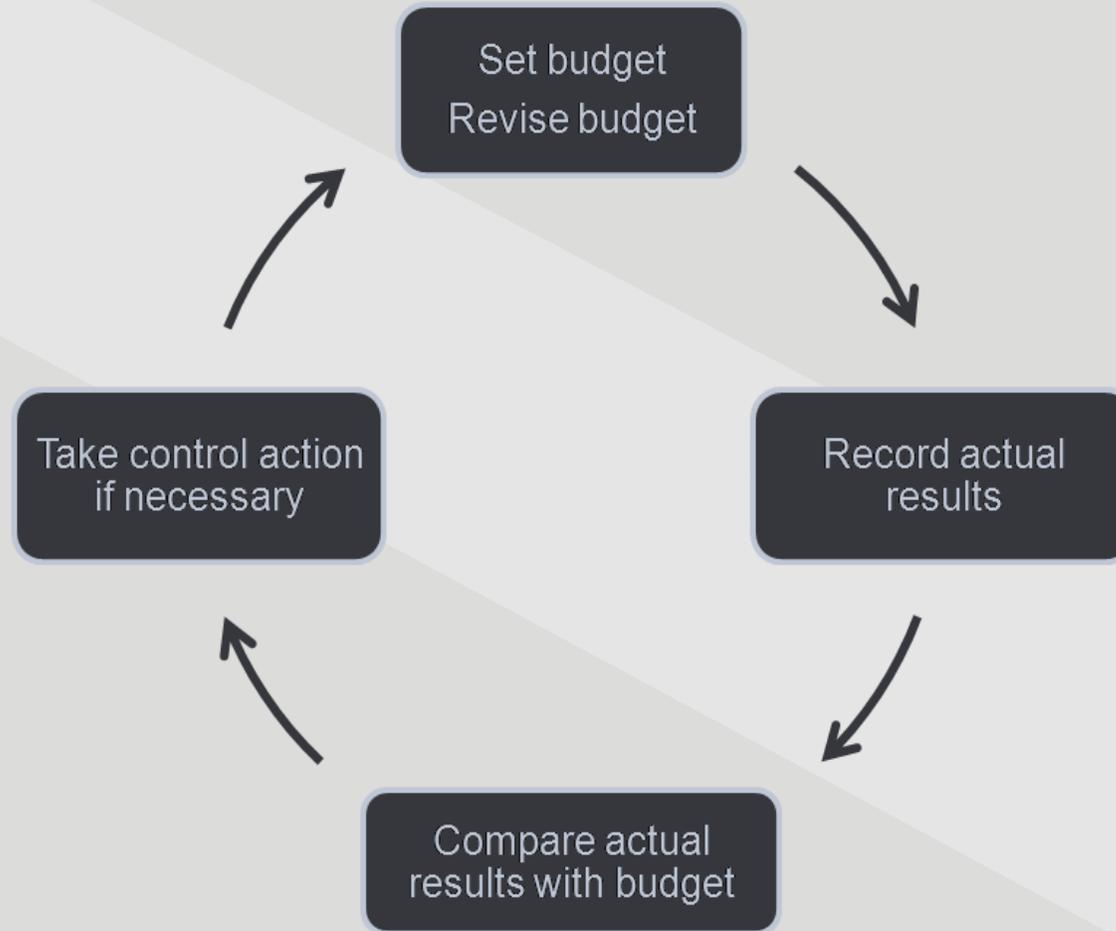
THE CRITICAL PATH



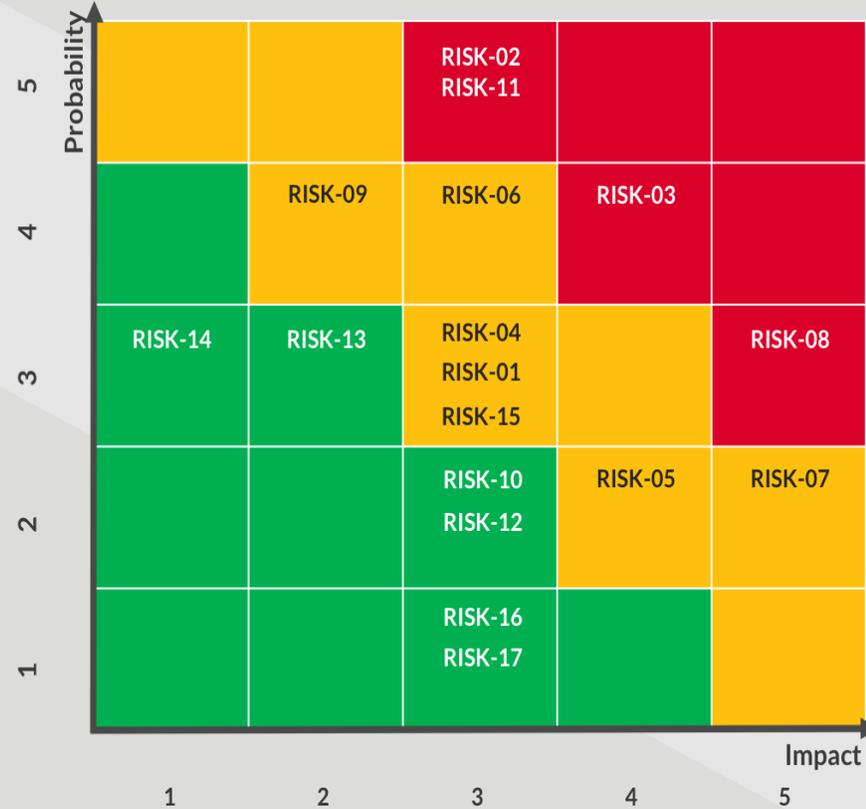
Early Start	Duration	Early Finish
Activity		
Late Start	Float	Late Finish



THE SCOPE OF WORKS/BUDGETS



TARGETS AND RISK MAPPING



TEAM CHALLENGE

- **Read and Discuss** the case study in the handout
- **Create** a simple risk map and contingencies
- **Complete** a simple budget analysis to ensure solvency
- **Write** a critical path which shows milestones within the 20 weeks
- **Report** back, choose whiteboard/GANNT/Excel or Word (group choice)



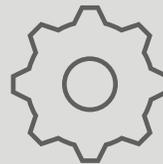
Spanish Project



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WORKBOOKS



CONSTRUCTING LEADERS PROGRAMME

Leadership, Excellence, Accreditation & Development

Leading to the ILM Level 3 Award in Leadership and Management Practice for the
Construction and Built Environment Sector

STAY SAFE & KEEP IN TOUCH!



Andy Lee MSC MBA ILM Lv. 7 Coach & Mentor

