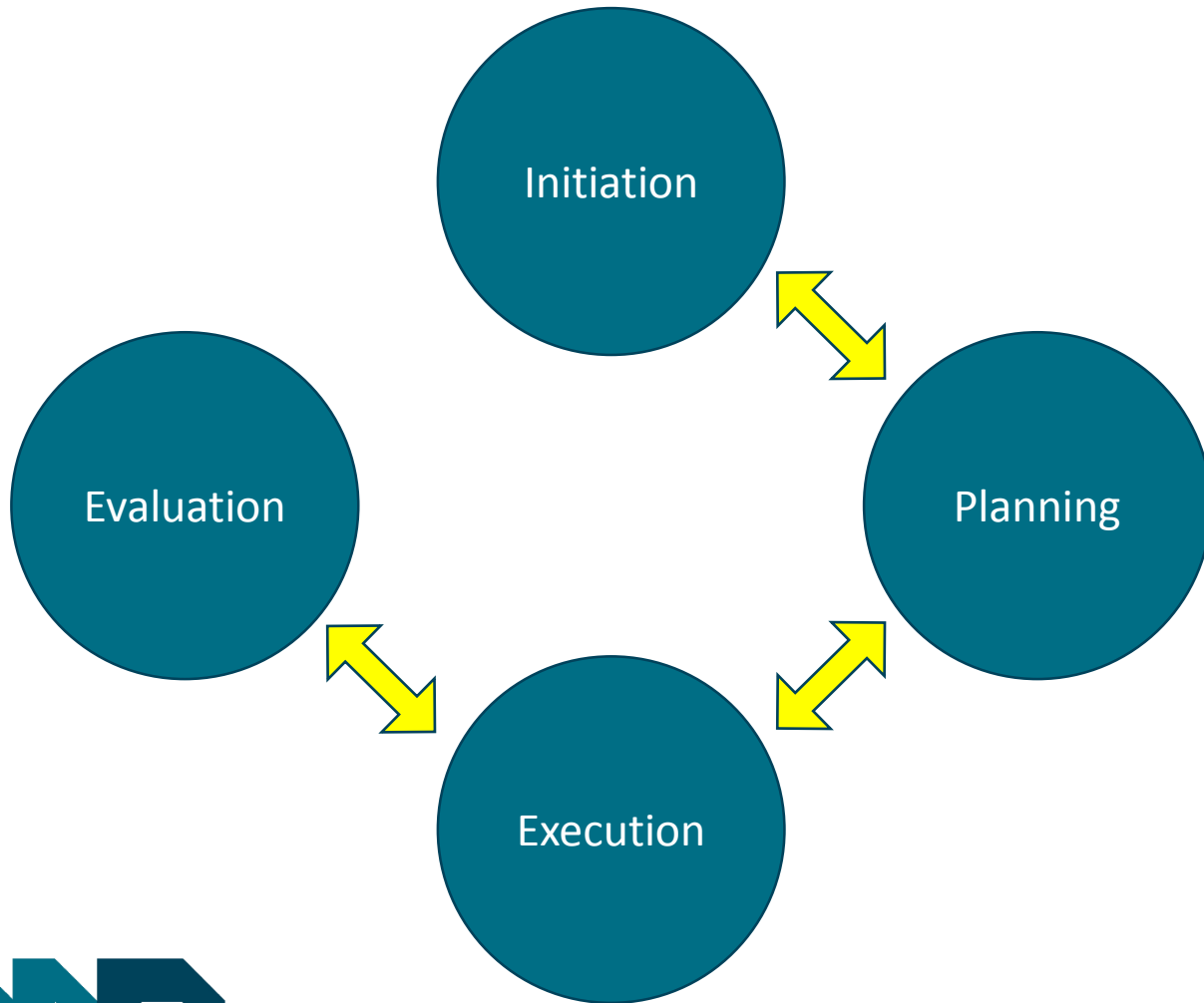


Inputs & Outputs of the Project Life Cycle

Unit R012 - Understanding tools, techniques, methods and processes for technological solutions

Interaction and Iteration



- **Phases interact** with each other.
- The **outputs** of one **phase** become the **inputs** of another
 - E.g. Project plan
- If **detail** is **missing** from one phase then you must **return** to it to **complete** it.
 - This is **Iteration** between phases.

Inputs and Outputs of Phases

- One of the advantages of the project life cycle is that it has clearly defined inputs and outputs of each phase.

Phase	Inputs	Outputs
Initiation	User Requirements User Constraints	Feasibility Report Legislation Implications Phase Review
Planning	Feasibility Report Legislation Implications	Project Plan Test Plan Constraints List Phase Review
Execution	Project Plan Test Plan Constraints List	Deliverable Product Test results Phase Review
Evaluation	Deliverable Product Test results	Release of Deliverable Product User Documentation Final Evaluation Report

User Requirements

- **Input of Initiation** Phase
- Document must **define** what the client wants to **achieve**
- Generic or very specific requirements may be used.
 - **Generic** – Produce reports about products
 - **Specific** – Produce reports generated by product, fit onto A4 letter headed paper.

User Constraints

- **Input** of **Initiation** Phase
- Given to the project manager by the **client** for them to **stick to**.
- 4 key constraints are:
 - **Timescale**- Tasks must be completed before specific deadlines.
 - **Budget**- Tasks must be completed on or under cost specified.
 - **Hardware**- Is there enough, and is it capable of completing the task
 - **Software**- Does it do what is required, is it able to be installed.

Feasibility Report

- **Output** of **Initiation** Phase
- **Input** of **Planning** Phase
- **Document** that includes all of the **answers** and **possible** solutions to **questions** asked during the Initiation Phase
- Document considers **constraints** and **requirements** provided and **decides** whether the project should **go ahead**.

Legislation Implications

- **Output** of **Initiation** Phase
- **Input** of **Planning** Phase

- **Consideration** is given to which **Acts/Laws/Regulations** need to be adhered to.
 - E.g. **Data Protection Act**- controls the way information is handled and to give legal rights to people who have information stored about them.
 - **Copyright**- Protects original creators of content.
 - **Computer Misuse Act**- Hardware and Software within a company is protected under law.

Initiation Phase Review

- **Output** of **Initiation** Phase
- This document will **consider** the **Feasibility Report** and the Project Manager will make a **decision** as to whether the project should carry on.
- If any **omissions** are found then the **phase** should be **repeated**.

Project Plan

- **Output** of **Planning** Phase
- **Input** of **Execution** Phase

- Document created by Project Manager to form the basis of the **project**. It includes:
 - **Breakdown** of tasks
 - How the **tasks link** together
 - **Milestones** and end date of the project

Test Plan

- **Output** of **Planning** Phase
- **Input** of **Execution** Phase
- The test plan is mainly concerned with **testing** to see if user **requirements** have been **met**.



Constraints List

- **Output** of **Planning** Phase
- **Input** of **Execution** Phase
- This is created from the **User Constraints** in the Initiation Phase.
- It provides **further** detailed **information** about each constraint.
- It is regularly **referred** to ensure **constraints** are **adhered** to.

Planning Phase Review

- **Output** of **Execution** Phase
- This project manager will consider the **completed** plan, test plan and constraints list.
- If any **omissions** are found then this phase may need to be **redone**.
- If any **issues** are found then they need to be **resolved**.
- If/When **issues** are **resolved** then you may **move** to the **Execution** Phase

Deliverable Product

- **Output** of **Execution** Phase
- **Input** of **Evaluation** Phase
- This is the product that has **been created** and **tested**.
- If any **bugs/errors** have been found then these have been **corrected** to ensure the product works.

Test Results

- **Output** of **Execution** Phase
- **Input** of **Evaluation** Phase

- This is the **results** of **tests** undertaken in the Execution Phase to make sure that every part of the **product** has been **tested**.

- Any **retests** will also have been **recorded** here too.

Execution Phase Review

- **Output** of **Execution** Phase
- This review will **consider** the **Deliverable Product**, the **Test Results** and the **Constraints** List and if all requirements are met then the product is **signed off** and fit to release.
- Any **issues** identified here need to be **resolved** before moving to the Evaluation Phase.

Release of Deliverable Product

- **Output** of **Evaluation** Phase
- When the **product** has been completed and **checked** against **requirements** and **constraints** then it is **ready** to **hand over** to the client.
- It will be **installed** onto their **machine/network**, where it will be **checked** again to see if it is working as intended.

User Documentation

- **Output** of **Evaluation** Phase
- Documents given to the end user to familiarise and fix issues.
- This should include:
 - A **user guide** showing how to use the product
 - An **installation guide**, to be used in future if the product needs to be reinstalled.
 - **Test plans** showing the results of tests carried out
 - **Security details** showing built in security and how it was set up.

Final Evaluation Report

- **Output** of **Evaluation** Phase
- This review **considers all aspects** of the project throughout all phases. It needs to:
 - **Measure success** against the criteria/objectives
 - **Review** any **changes** from the original plan – including timescales
 - **Evaluate** the **effect** of **processes** and resources on delivering solutions
 - **Assess maintainability** – does the system need further development?