

CONSTRUCTION PHASE

Purpose: The Construction Phase develops or modifies the system/process as designed in the External and Internal Phases, and ensures that each module within the system functions as designed.

Life of the Phase: The phase begins when the Internal Specifications for a module or interrelated modules are complete. The Construction Phase continues until the Unit Testing is complete. This phase may be placed on hold if it is necessary to revisit the Internal or External Design Phase to re-design a *function*. In addition, there may be a need to return to the Construction Phase after its completion if a later phase surfaces the unexpected.

STEP 1: Prepare Environment

- i. Review the External and Internal Design Specifications
- ii. Verify resources (people and timeline)
- iii. Consult Standards before setting up the environment
- iv. Create construction environment (e.g., directories, accounts, command files, etc.)
- v. Communicate to others in your test environment about databases, datafiles, etc. that you will be using

STEP 2: Create/Update Database/Files

- i. Create/Update the schema or Database Definition Language (DDL) (e.g., Powerhouse dictionary, Access database, etc.)
- ii. Create/Update the Datafiles, items, indexes, item and element attributes within the afore-mentioned dictionary/database
- iii. If appropriate, add the database to the data dictionary.

STEP 3: Generate Code

During the generate code step, the coding team should consult existing guidelines and standards for commenting code, naming conventions, directory layout, etc.

- Create Screens
- Create Command Jobs/Scripts
- Create Reports
- Create/Edit source code
- Create/Update compile streams
- Compile
- Link/Edit
- Update Libraries with new layouts