PROJECT LIFECYCLE DESCRIPTION

contract start-up phase

consolidates and finalises

comprising

system interface control documents

system requirements specification

statement of work

system requirements for: performance, environment, qualification, quality assurance, provisions/tests

comprising

interfaces

with other

systems/ platforms

for use by

relating to the

product

of the

sub-elements

relating to the

system design engineers

who complete

system design

that occured during

creative logic

and

decision rationale

to produce finalised

that records the

comprising

segment interface control documents

segment requirements specifications

design documents

interfaces

among the

segments of the system

for the

development phase

comprising

segment requirements for: performance, environment, qualification, QA, provisions etc.

system design
- is carried out by one or more → **system design engineer(s)**
- comprises the activities of → **design capture**
- is managed by → **programme/ engineering managers**

programme/ engineering managers
- to achieve → **successful completion**
  - within → **timescale and budget**

system design engineer(s)
- who utilise → **design tools**
- who examine → **system requirements** / **interface requirements**
- who use → **list of considerations**

design tools
- to perform → **design capture**
- in order to undertake the → **iterative process**

design capture
- which records the → **iterative process**
- which assists in → **functional decomposition**

functional decomposition
- which breaks down the → **conceptual product**
- of → **rework**

iterative process
- of → **functional decomposition**
- during → **creative thinking**

conceptual product
- into its constituents → **sub-elements or segments**

rework
- which either authorises → **formal design review**

creative thinking
- to mould their → **list of considerations**
- in terms of → **lower level functional requirements**

list of considerations
- and → **system requirements** / **interface requirements**
- to assess → **lower level functional requirements**
- with → **segment requirements specifications**

sub-elements or segments → **lower level functional requirements**

lower level functional requirements
- which are contained within → **segment requirements specifications** / **segment interface control documents** / **design documents**
- to determine their readiness to undergo → **formal design review**

formal design review
- which assesses the compliance of → **design documents**
- or which authorises continuation to the → **development phase**

design documents
- and which, when finalised, act as a → **baseline**

baseline
- for → **development phase**

timescale and budget
- of → **development phase**

the project management process — is based on → planning — possessing → organisation — requiring → leadership — demonstrating → control — and is subject to → adaptation — which takes into account → environmental influences — plus → obstacles to progress — and → opportunities for acceleration — in order to achieve the → project aim