

### **Phase 1: Initiation/Conceptualization**

- Identify need
- Establish feasibility
  - Program, process
  - Schematics
  - Prelim budget, schedule
  - Project team
  - Financing
  - Risks
- Identify alternatives
- Present proposal
- **Approval to proceed**

### **Phase 2: Planning**

- Develop
  - Plan
  - Block diagrams
  - Sketches, outline drawings
  - Standards
- Conduct studies
- Reconfirm economics
  - Budget, cash flow
  - Financing
  - Schedule
- Re-assess risks, alternatives
- Present Project Brief
- **Obtain approval to proceed**

### **Phase 3: Execution and Control**

- Set up organization
- Working drgs and specs
- Design review
- Procure equipment
- Procure constm service
- Procedure physical asset
- Quality assurance/control
- Verify performance

- Modify as required
- Progress monitoring
- Forecast and reports
- Deliver facility

#### **Phase 4: Closeout/Termination**

- Training operators
- Reviews and Acceptance
- Run up Capacity
- Transfer materials
- Settle all accounts
- RE-assign remaining team
- Archive lessons learned
- Close all records
- Deliver Final Report and transfer responsibility