**STEP 5: Perform Internal Design of Each Module**

Proceed with detailed internal design.

**A.  Module Designer Tasks**

- Perform top-down design of narrative/algorithms based on the External Specifications
- Create pseudo-code or Warnier-Orr, increasing granularity of the process
- Update/Create Internal Module Specification throughout design:
    i.    Update error code table through Model Coordinator
    ii.   As pseudo-code is created, note exceptional testing criteria or guidelines to assist in the testing phase.
    iii.  Revise data definitions, models, etc. from previous phases and review with internal design team
    iv.   Document assumptions with Model Coordinator
    v.    Document internal module standards (standards to this project that will be used)
    vi.   Document additional special requirements not included in the External Specifications (e.g., exclusive database locking, disk space requirements, etc.)
    vii.  Document unexpected issues and resolutions that clarify the design

**B.  *Model Coordinator* Tasks**

- Determine common routines, standards and include files (e.g., data types, date formats, etc.) to be designed
- Write, pull together and review internal standards (e.g., variable naming conventions) and external standards (e.g., corporate, international language and Operating System standards)
- Update Internal System Design Specifications, as necessary
- Design common modules (see "Module Designer" above for process), create Internal Module Design Specifications as necessary

**STEP 6: Conduct Design Walk-through**

Perform informal design walk-through with external design creator to <u>ensure adherence to external specifications</u> (2 people).  This review may be held for one module at a time, or logical groups of modules, or all of the modules, whichever is appropriate.

**STEP 7: Investigate and Resolve Design Walk-through Issues**

Answer all issues and concerns raised in the review, updating specifications as necessary.  If necessary, hold another review meeting.