

## Product Realization Requirements

CD–Quality–PR-001

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**Product Realization describes the work required to develop, manufacture, and deliver the finished goods or services. This is required for works progressing through Control Direction manufacturing.**

### 1. Review of requirements and client communication

Upon Contract or Purchase Order award, the Sales Engineer will:

- i. Establish client communication channels
- ii. Review offer, contract/purchase order and resolve mismatches.
- iii. Identify and resolve any requirements that cannot be delivered.
- iv. Finalise documentation.
- v. Receive customer feedback.

### 2. Design Preliminaries and Inputs

Lead Engineer will:

- i. Review offer and Contract/Purchase Order with Sales Engineer.
- ii. Review the proposed design and complete it for manufacturing.
- iii. Suggest enhancements for client approval.

### 3. Design Outputs

Lead Engineer will:

- i. Review design with the Operations Manager.
- ii. Develop drawings and bill of materials to adequately document the design.
- iii. Manage and collate necessary internal and client correspondence.
- iv. Develop quality requirements.

### 4. Constructability\* (Design and Development Verification)

Management will chair and minute:

- i. Constructability meeting with Sales Engineer, Lead Engineer and Operations Manager.
- ii. Management will authorize manufacturing and/or additional design.

### 5. Manufacturing

Operations Manager will:

- i. Create the manufacturing Workplan required to co-ordinate all steps, sequences and resources (including subcontractors).
- ii. Complete the bill of materials and manage the purchasing process.
- iii. Manage the risks.
- iv. Manage the safety requirements.
- v. Manage client specific needs.

### 6. Quality Check and Test

Operations Manager will create and complete the Inspection Test Plan to:

- i. Confirm the design has been manufactured.
- ii. Complete safety tests.
- iii. Incorporate client specific tests.
- iv. Manage testing and power-up.
- v. Communicate progress with the Sales Engineer, Lead Engineer, client and Management.

## 7. Close Out / Client Practical Completion

Operations Manager will:

- i. Review works and agree that internal practical completion has been reached or escalate status to management.
- ii. Prepare client close out requirements and materials.
- iii. Host client close out discussion or meeting.
- iv. Seek client final acceptance.
- v. Report client satisfaction levels to management and co-ordinate with the Lead Engineer the resolution of any residual client issues.

**Constructability\*** – workshop style meeting where the completed design is used as reference material to establish practical implementation steps and requirements. This is not a design meeting. The meeting objective is to identify obstacles before the project is actually installed to reduce or prevent errors, delays, and cost overruns.

**Workplan** – Key workstep document detailing the steps, risks, quality and safety elements required to complete the project.