

COMMISSIONING - TOP QUARTILE SELF TEST:

Top quartile Commissioning and Start-up (CSU) programs include the following:

1. The **CSU project scope** includes commissioning the conceptual and detail DESIGN utilizing sophisticated software testing tooling (e.g. EXTEND simulation software, Monte Carlo simulation). *H M L*
2. The **CSU schedule** is gated and the resourcing changes based on Stage one, two, three and four classes of *Inspection Test Planning*, the asset complexity, criticality and magnitude of work, extent of your history with the technology to be tested and net risk associated with failing to test adequately. *H M L*
3. A **corporate CSU organization** is in place prior to start of construction to provide guidance, integration, design control and general quality assurance. *H M L*
4. A **Standard CSU Field Facilitation Guide** is in place and is used in conjunction with a *CSU Standard Practices Manual* that defines the Inspection Test Plan (ITP) development and control procedures. *H M L*
5. The **Deficiency Management** methodology classifies the deficiency based on risk and impact and the tracking tool is integrated with the current MOC processes and overall Project Management risk-management plan. *H M L*
6. There are formal progress and sign-off **control points** in your CSU plan:
 - a) *ITP Lock Box procedures* updated based on known deficiencies for ‘stored energy equipment’ and the initial vs. final start-up procedures.
 - b) *Stage one* – Simple Construction placement verification – ITP content, completion status & outstanding deficiencies. *H M L*
 - c) *Stage two* – Asset Integrity verification - ITP content, completion status & outstanding deficiencies. *H M L*
 - d) *Stage three* – System integrated control aligned to deliver optimal ‘sweet-spot’ performance - ITP content, completion status & outstanding deficiencies. *H M L*
 - e) *Stage four* – Operational Excellence, proof that man-machine interface delivers optimal facility output (quality and quantity) - ITP content, completion status & outstanding deficiencies. *H M L*
 - f) *Final acceptance* – Hand-Over and transfer of Care, Custody and Control (CCC) of the asset from the Commissioning team to Operations. Operations must accept the Design, Construction and CSU results.

**Note in top quartile Operations, transfer of CCC from Construction to Commissioning occurs after the Stage two testing is signed off. H M L*

SCORING:

1. Score 3 points for every H, 2 points for every M and 1 point for every L.
2. Multiply your *total score* by *three* to get your percentage score out of 100.
3. A score of less than 90% means you are NOT World Class.

My score: _____