

<p>Background</p> <ul style="list-style-type: none"> It can be difficult to get input or feedback from production for a new project. 	<p>Objective</p> <p>To create complete production order drawings, to get valuable opinion from production engineering; and to discover improvement opportunities in production at the earliest possible phase</p>												
<p>Phase</p> <pre> graph TD Concept[Concept] --> Feasibility[Feasibility] Feasibility --> Verify[Verify] Verify --> SOP[SOP] SOP --> Terminate[Terminate] OOBEYA[OOBEYA Phase] -.-> Feasibility </pre>	<p>Who</p> <table border="1"> <thead> <tr> <th>Phase</th> <th>Project Leader</th> <th>Design</th> <th>---</th> <th>Production Engineering</th> <th>Coordinator</th> </tr> </thead> <tbody> <tr> <td>All</td> <td>Y</td> <td>Y</td> <td>---</td> <td>Y</td> <td>Quality control from production</td> </tr> </tbody> </table>	Phase	Project Leader	Design	---	Production Engineering	Coordinator	All	Y	Y	---	Y	Quality control from production
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<p>Procedure</p> <ol style="list-style-type: none"> Production engineer stay in product development The procedure is the same as Simultaneous Engineering activity. Production team member joins at the kick-off of OobeYA phase Gyaku RE member prepares Feedback sheet, technical standard and check sheet from previous project. 													
<p>Output</p> <ul style="list-style-type: none"> Production feedback sheet Technical standard 	<p>Result</p> <p>Project Results: Lead-time reduction with fewer resources</p> <p>Resources</p> <p>Development Period (Months)</p> <ul style="list-style-type: none"> Front Loading Significantly reduced resource use Elimination of re-work, and its follow-on effects 												
<p>Comments</p> <ul style="list-style-type: none"> Production engineers and line leaders with GENBA (factory workplace) experience have great value in TDS The literal translation of Gyaku RE is “opposite” resident engineer. It describes an engineer from the production quality control organization who is on medium-long term assignment with a design team. 													