



Sri Padhmam Consultancy & Training

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S O P for the Workshop on

APQP & PPAP (as per IATF 16949 : 2016) with a focus on CSR

Target participants : Engineers & above

Process

Methodology :

- ➤ Class Room discussions
- → Team Exercises (20 exercises)
- ➡ Group Presentations
- Best practices on APQP & PPAP

Structure :

- ▶ Ice Breaking
- ➤ The whole course to cover all the phases with exercises
- ➡ Evaluation during the sessions
- ▶ Quiz
- Final Test & Evaluation
- ➤ Written Feed Back

Type of Program :-

- Management
- □ Behavioral

Min. Max. Hours 18 26 **No. of Participants** 10 20

Mixed Group : Yes □ No

Deliverables

- Origin of APQP
- Basic concepts & Principles
- Linkages to IATF 16949:2016
- Techniques of APQP process
- Quality Function Deployment (QFD)
- Error proofing & PDCA cycle
- Process Flow for Lean management
- Characteristics matrix
- M E O S T for product validation
- Quality plan
- Gantt chart
- Quality planning sign-off
- Phase 4 of APQP : Linkage to PPAP
- Successful PPAP through structured APQP Process
- Five Phases of APQP with exercises
- Control plan Creation & management
- PPAP How to interpret & Implement ?
- Situations Analysis on PPAP

Program Objectives

familiarize the participants to apply the concepts & Practices of Advanced Product Quality Planning & Control Plan (APQP) 2nd edition -**Production Part Approval Process** (PPAP) 4th Edition.

To provide the skill sets on new product development through APQP & **PPAP** methodologies.

Also to familiarize on linkages to IATF 16949:2016 requirements.

Performance Indicators

Short-term

- Performance during the team presentations
- Final Test Marks
- Exercise marks during the Program
- Program feed-back

Long-term

□ Usage of APQP, PPAP & Control Plan Methodology

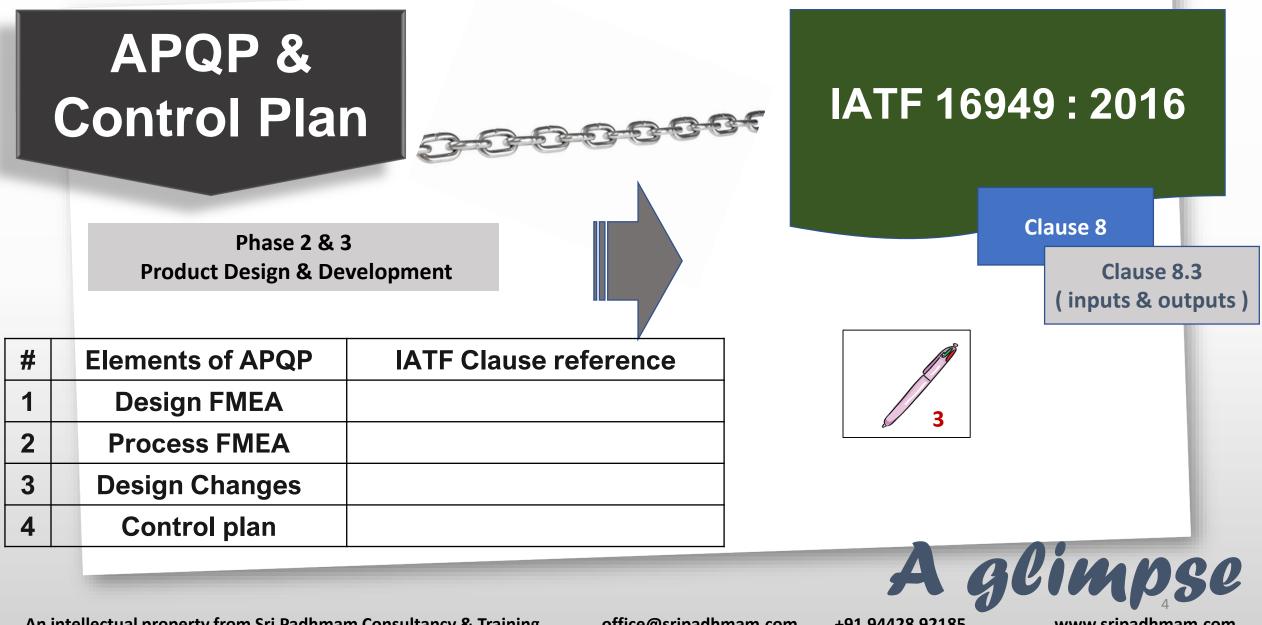
Better focus on Customer requirements

□ Enhanced skill index

- Verbal Feed Back

Technical

APQP - Importance



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Advanced Product Quality Planning









0 CFT formation & Scope definition

Plan & Define

Product design & development

Process design & development

Product & Process validation

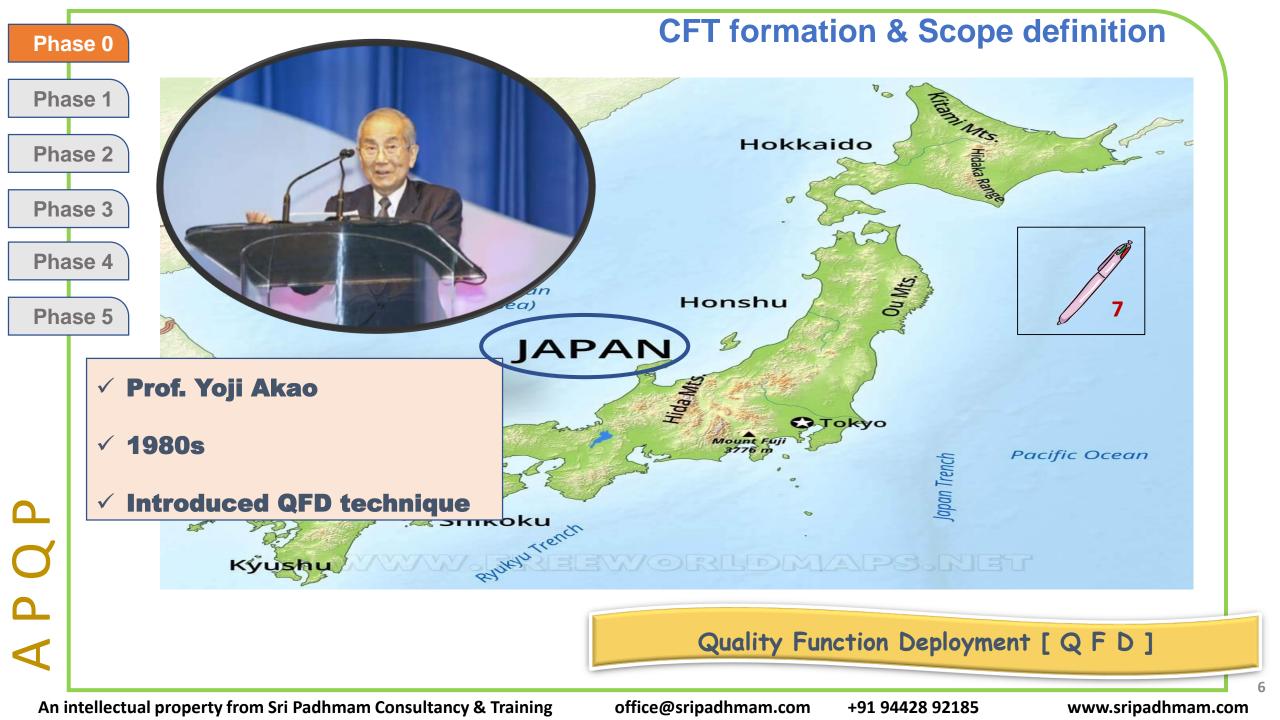
Feed-back, assessment & corrective action

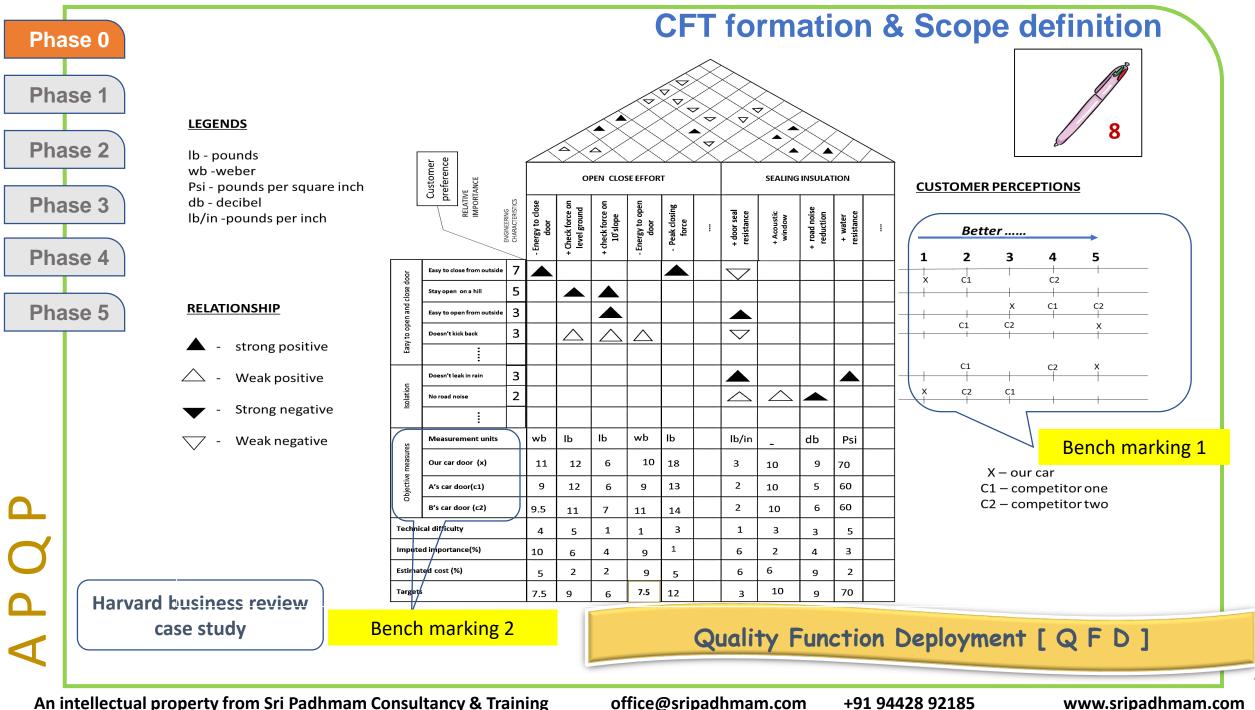
Phase "O"

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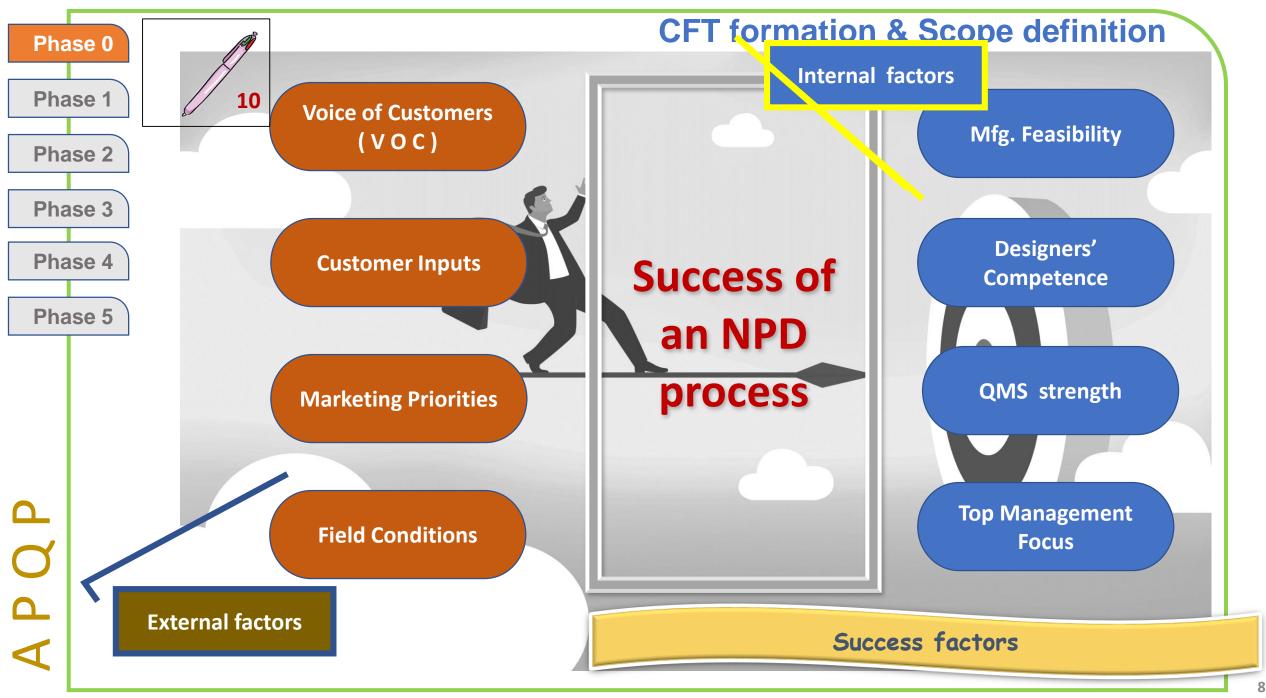
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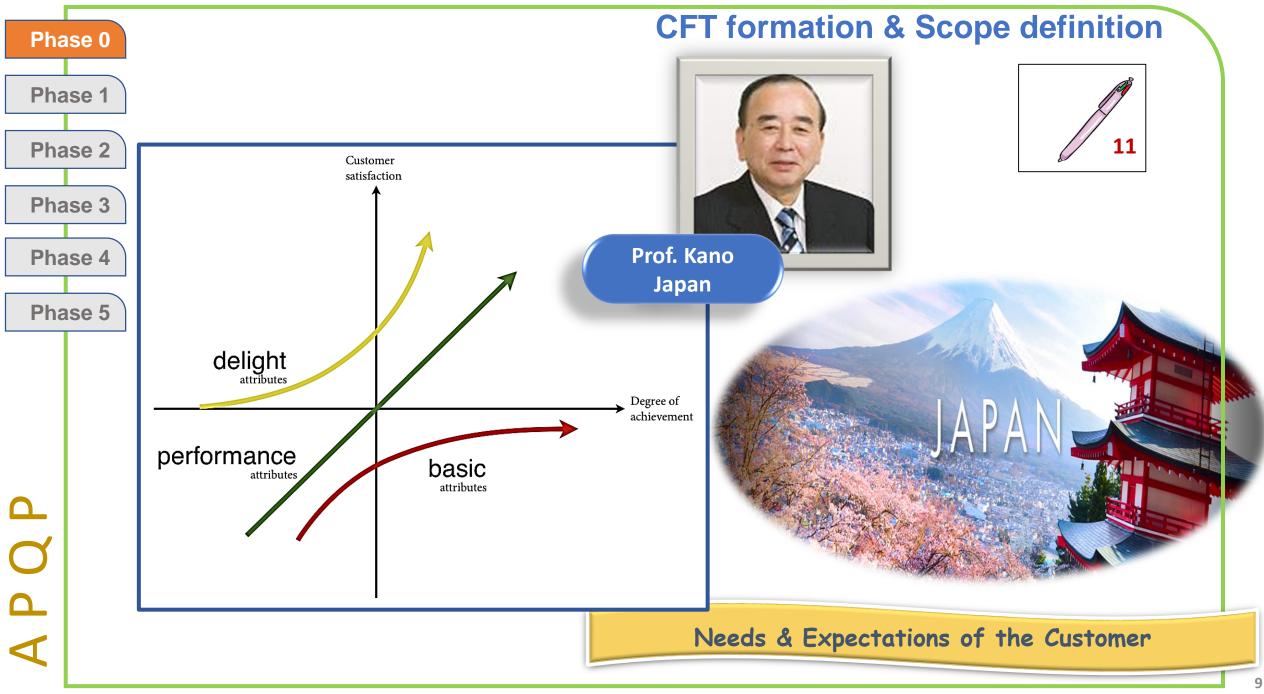


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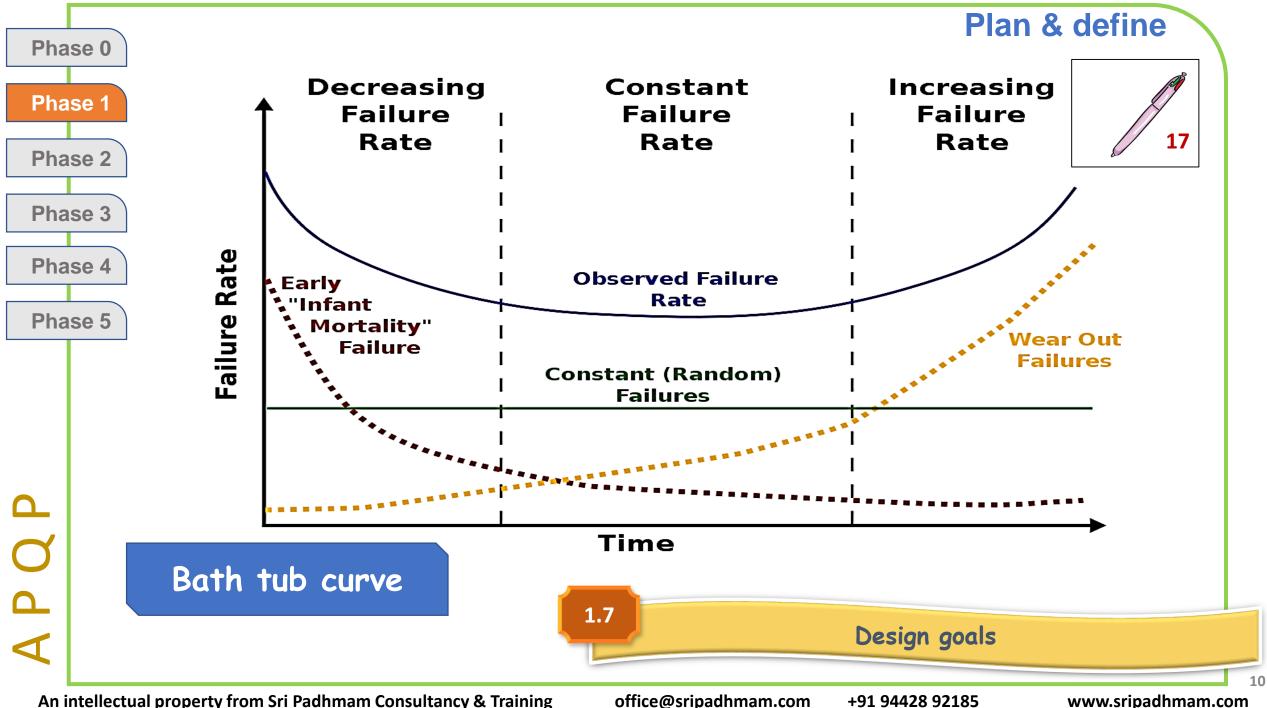


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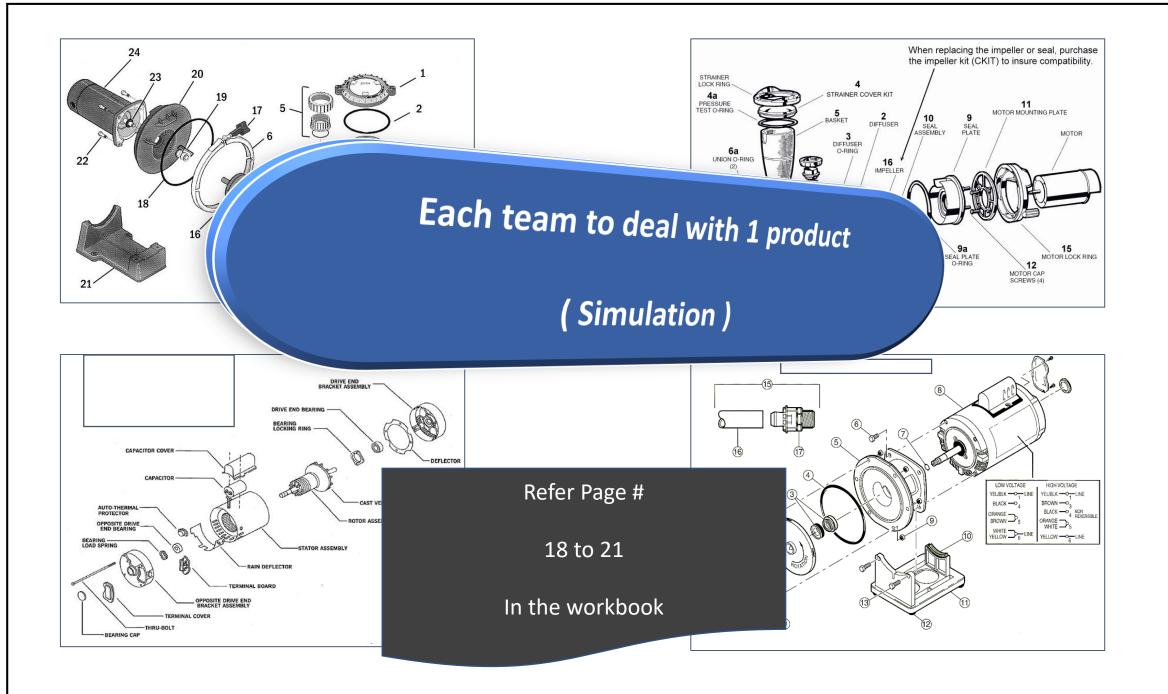
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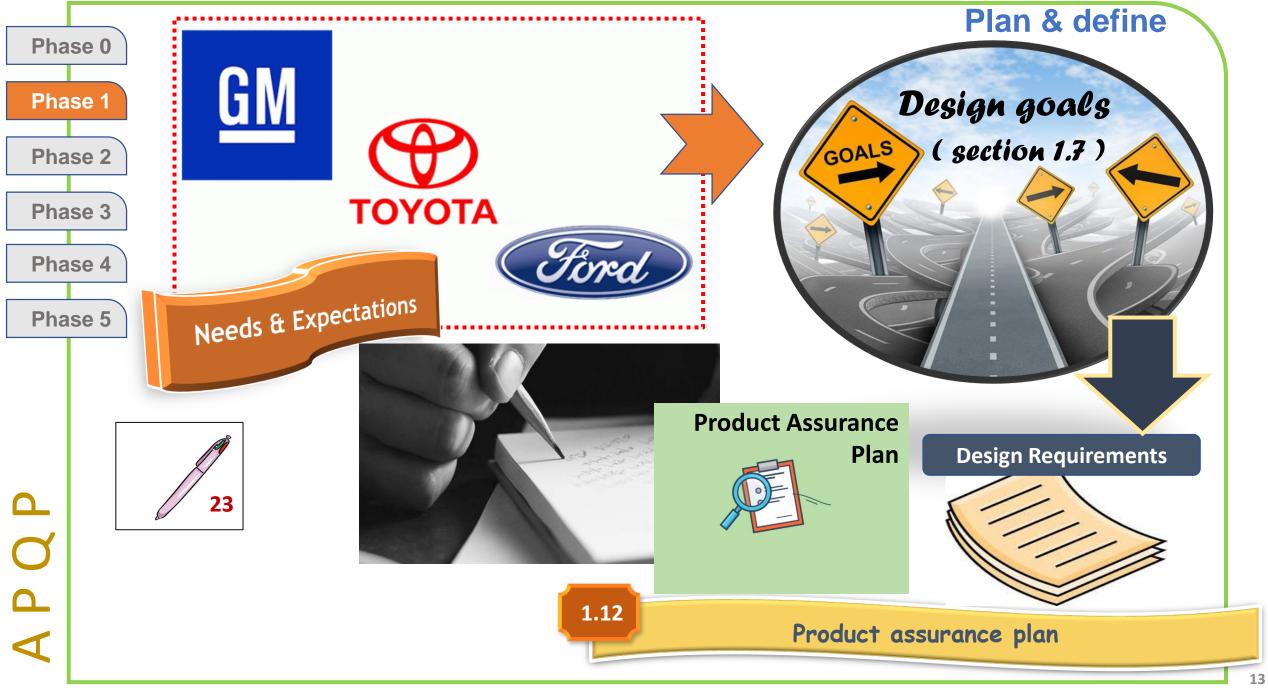


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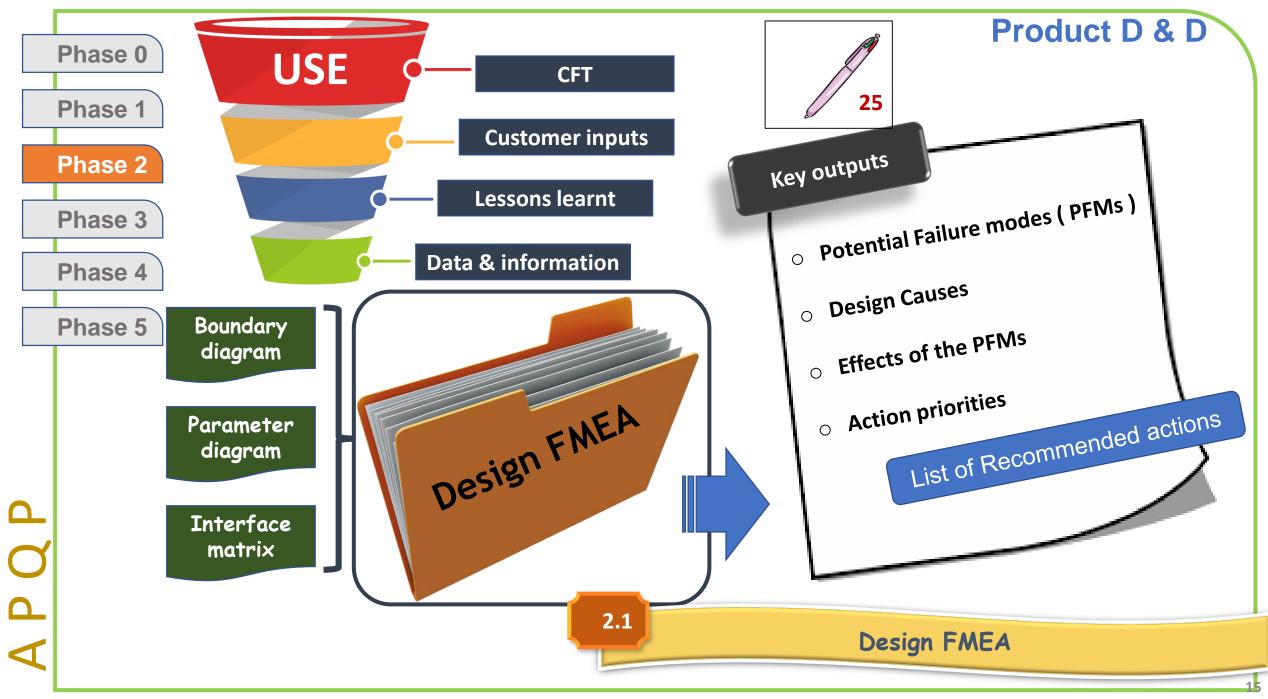


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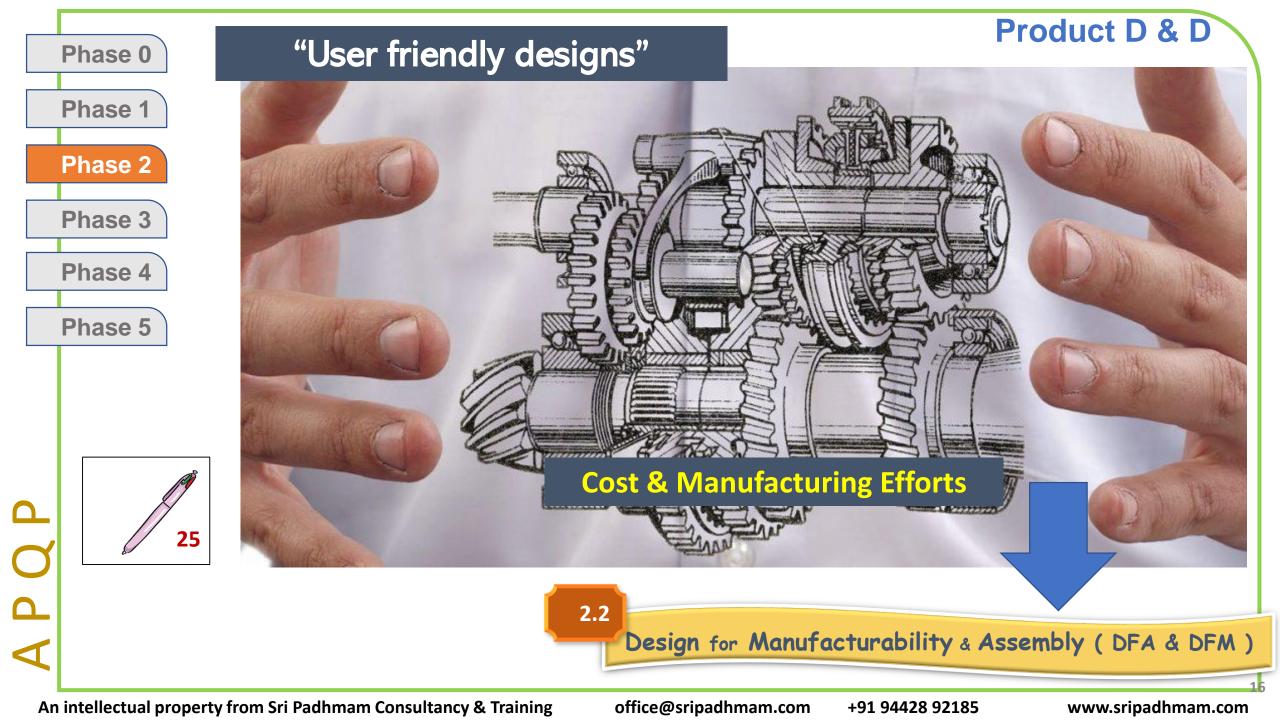
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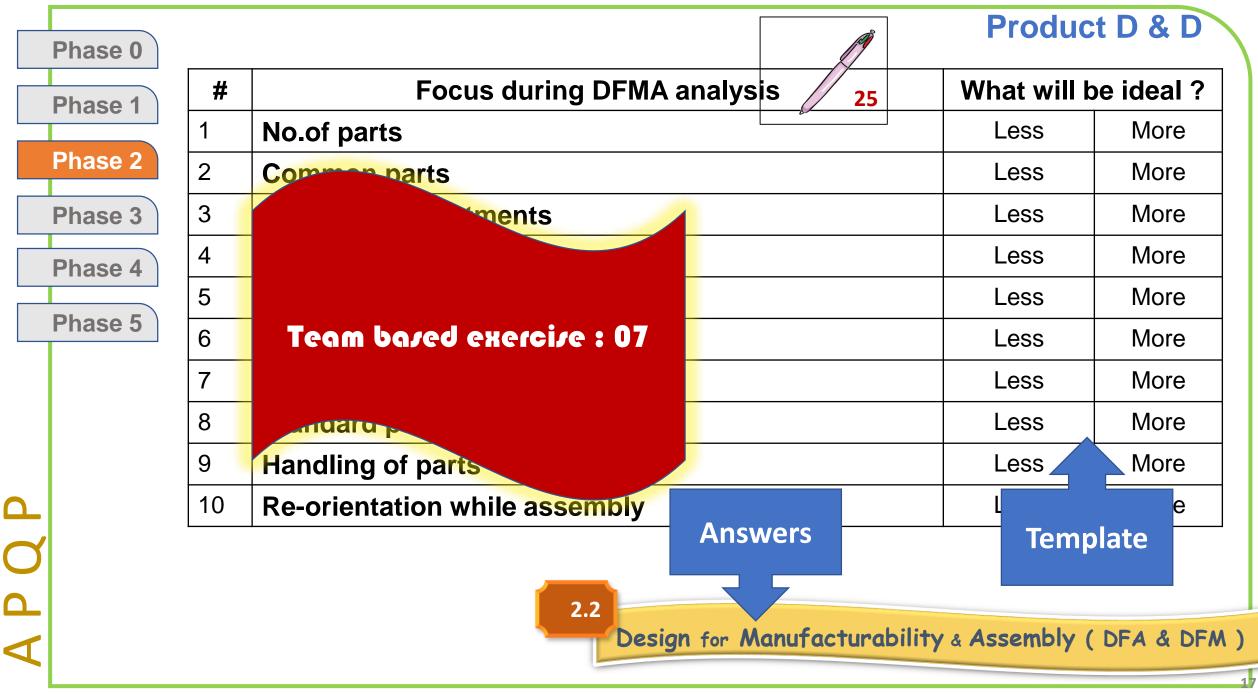
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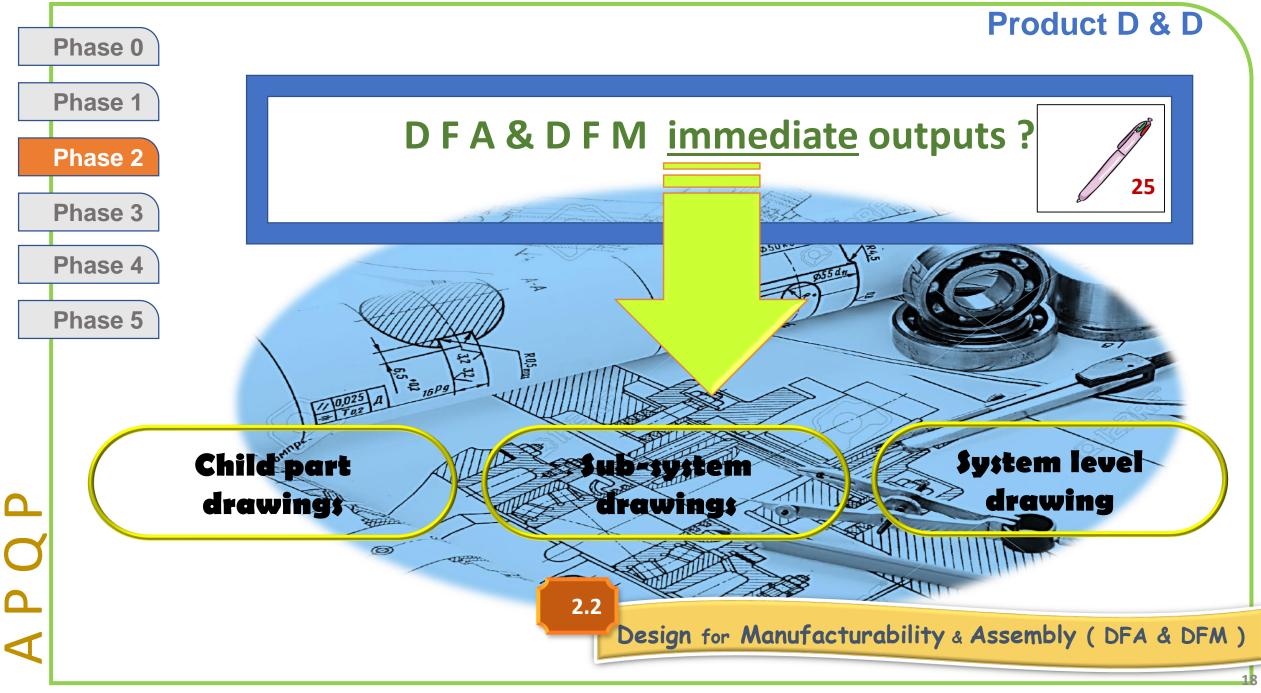
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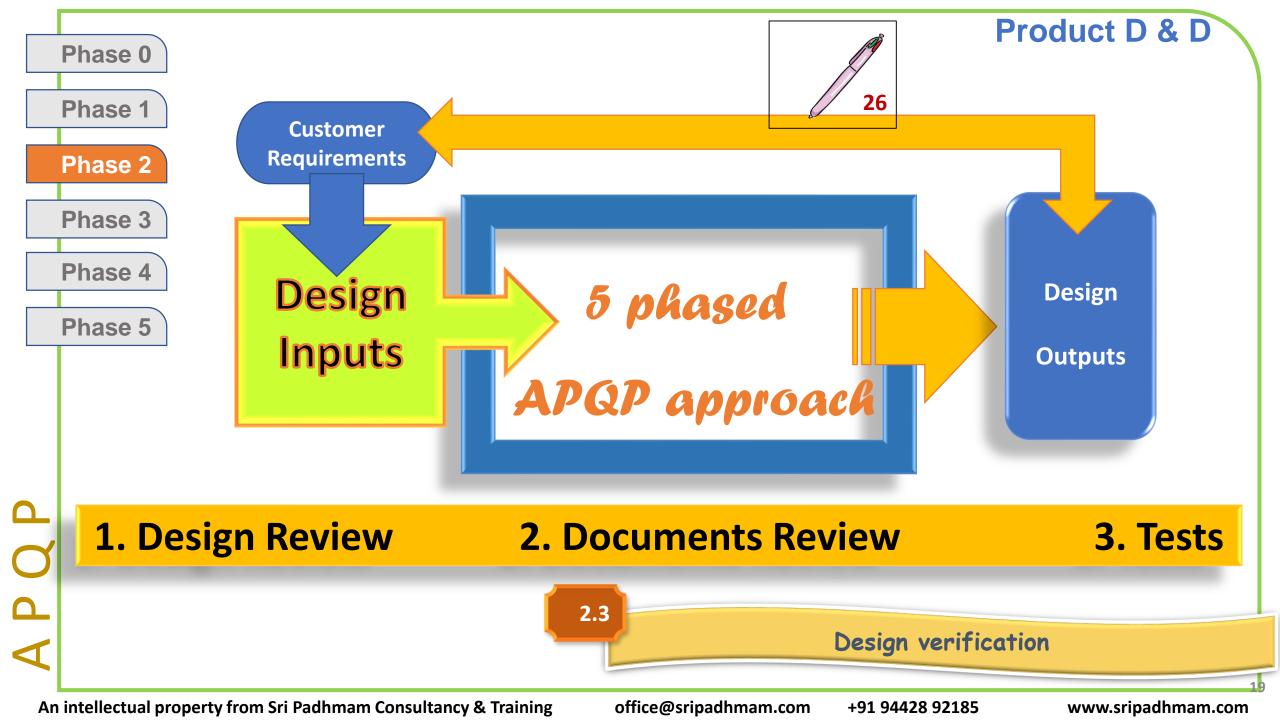


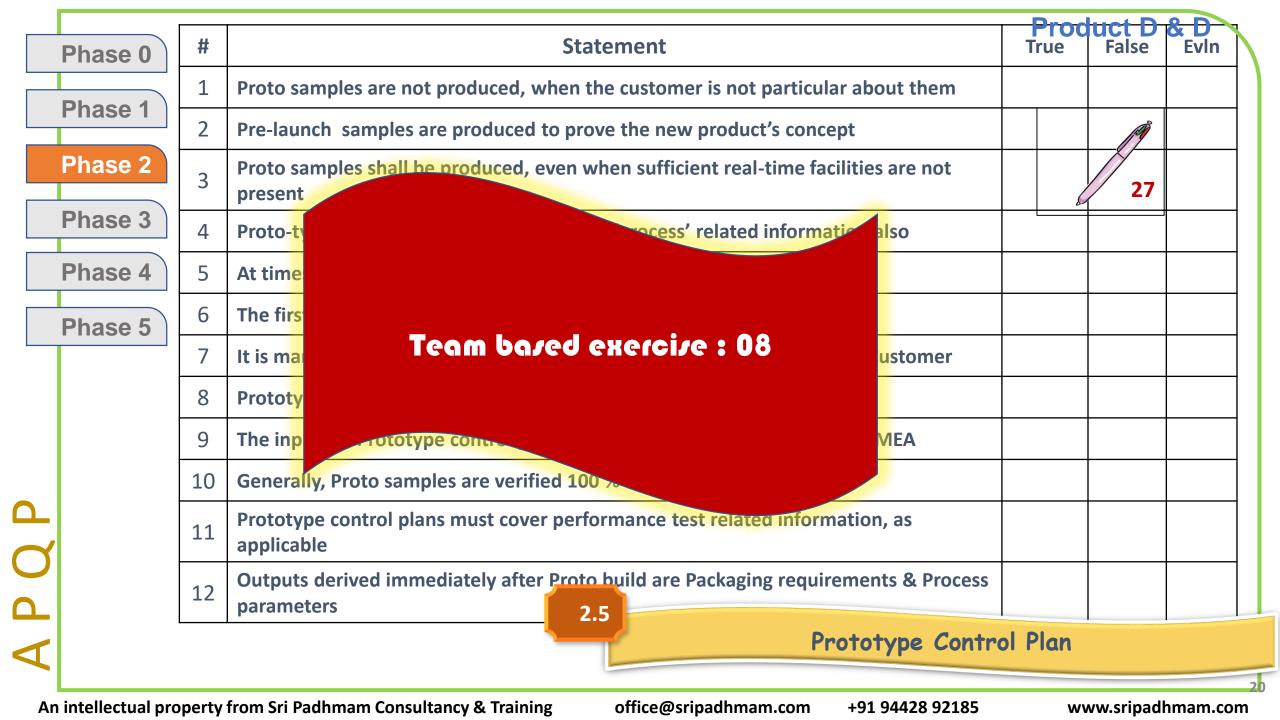


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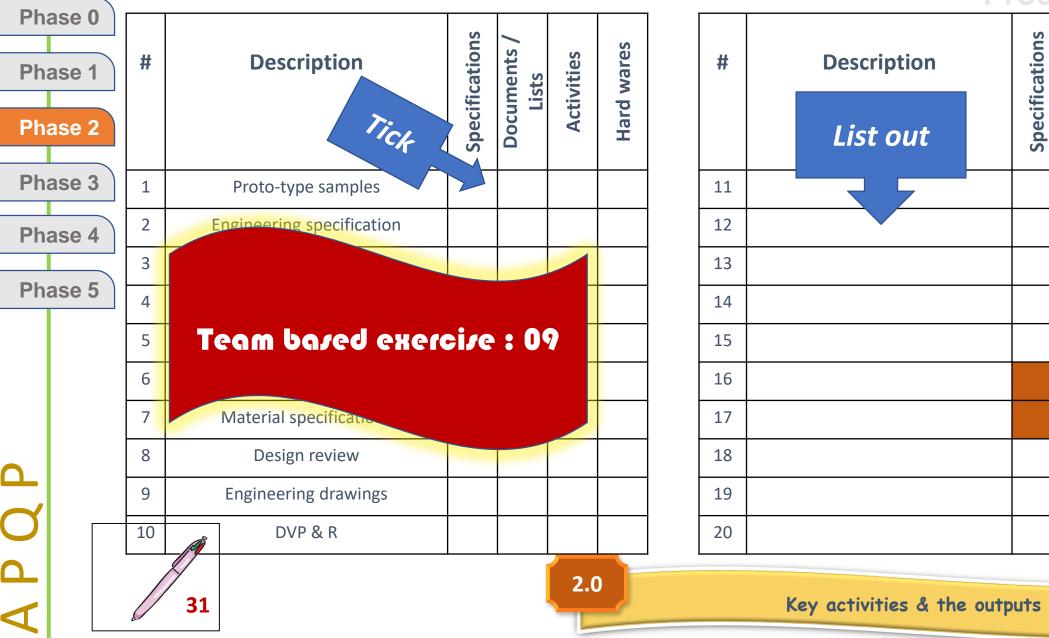
Product D & D

Lists

Documents

Hard wares

Activities



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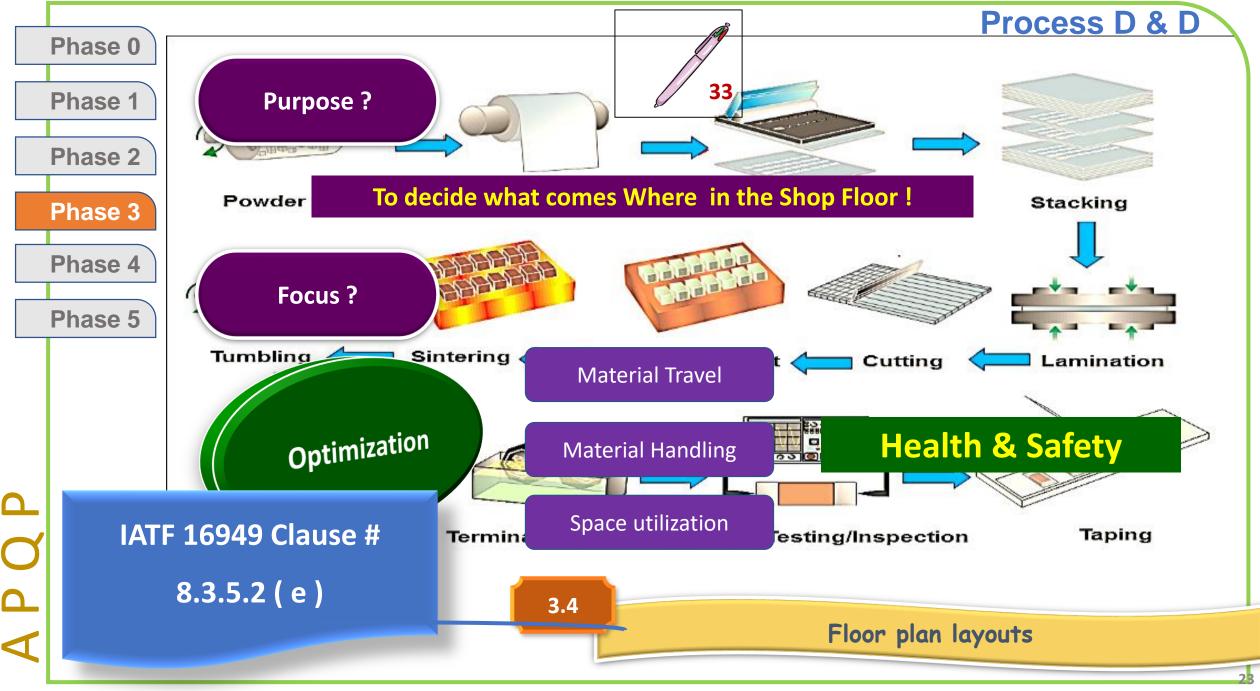
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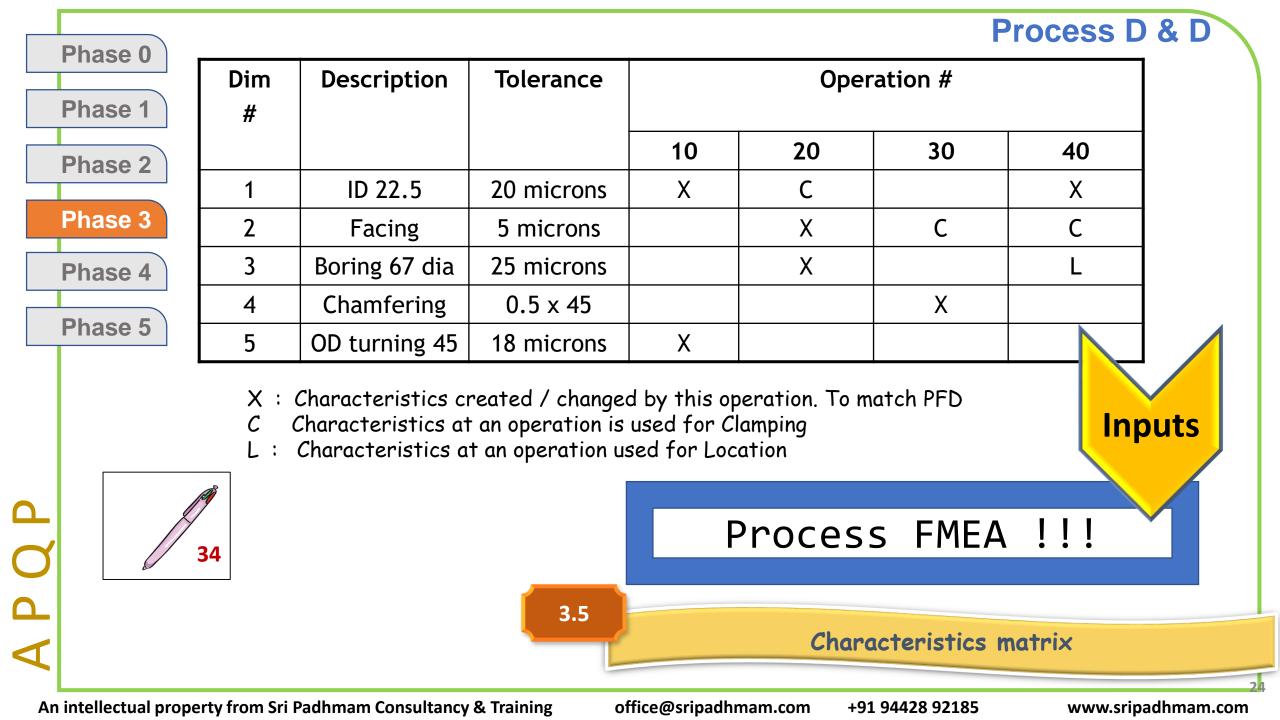
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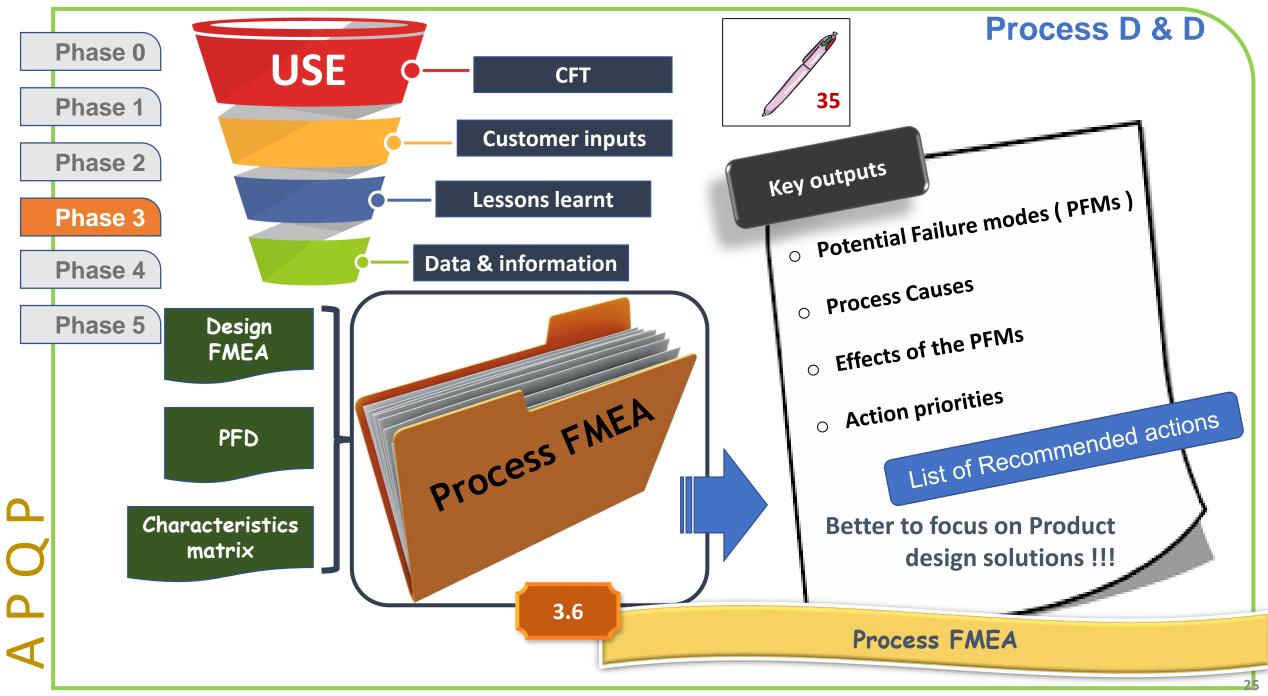




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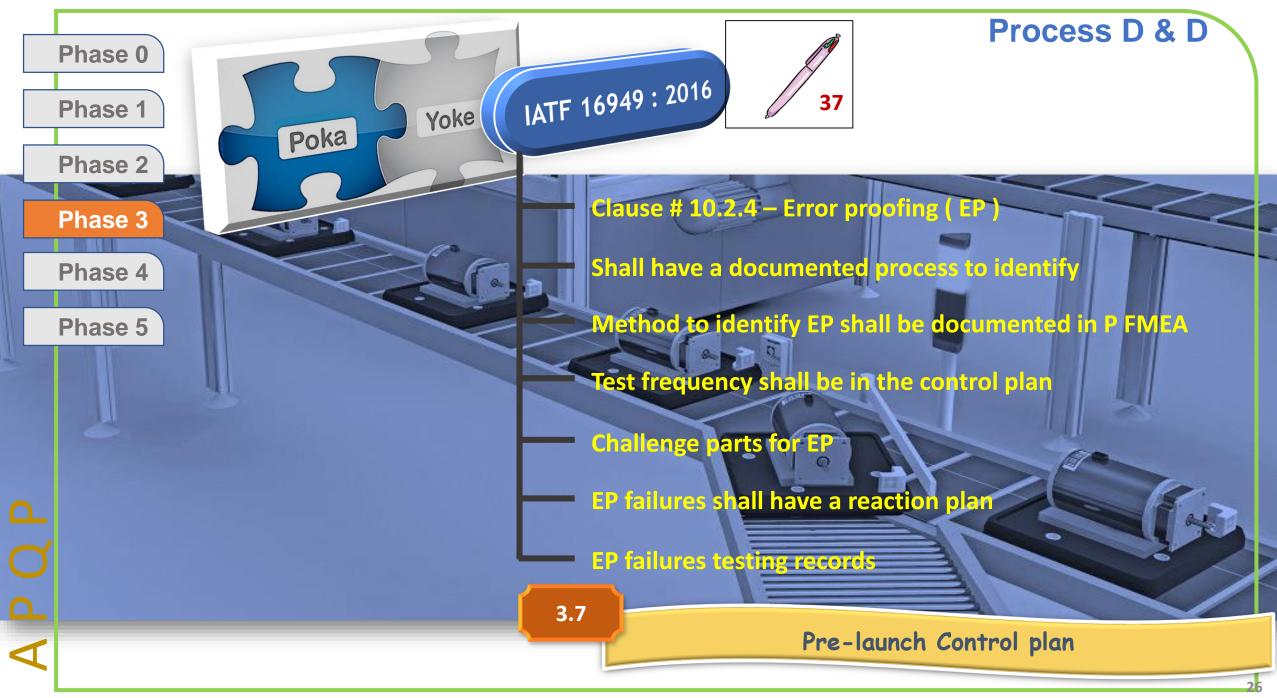
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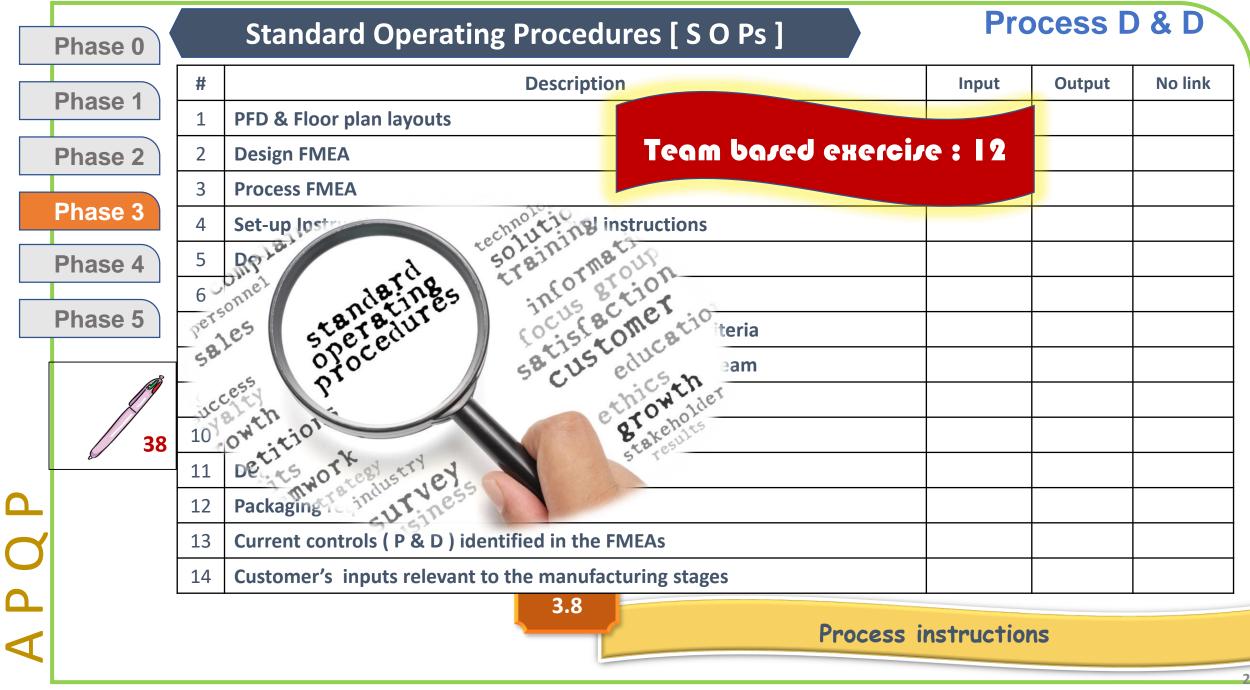
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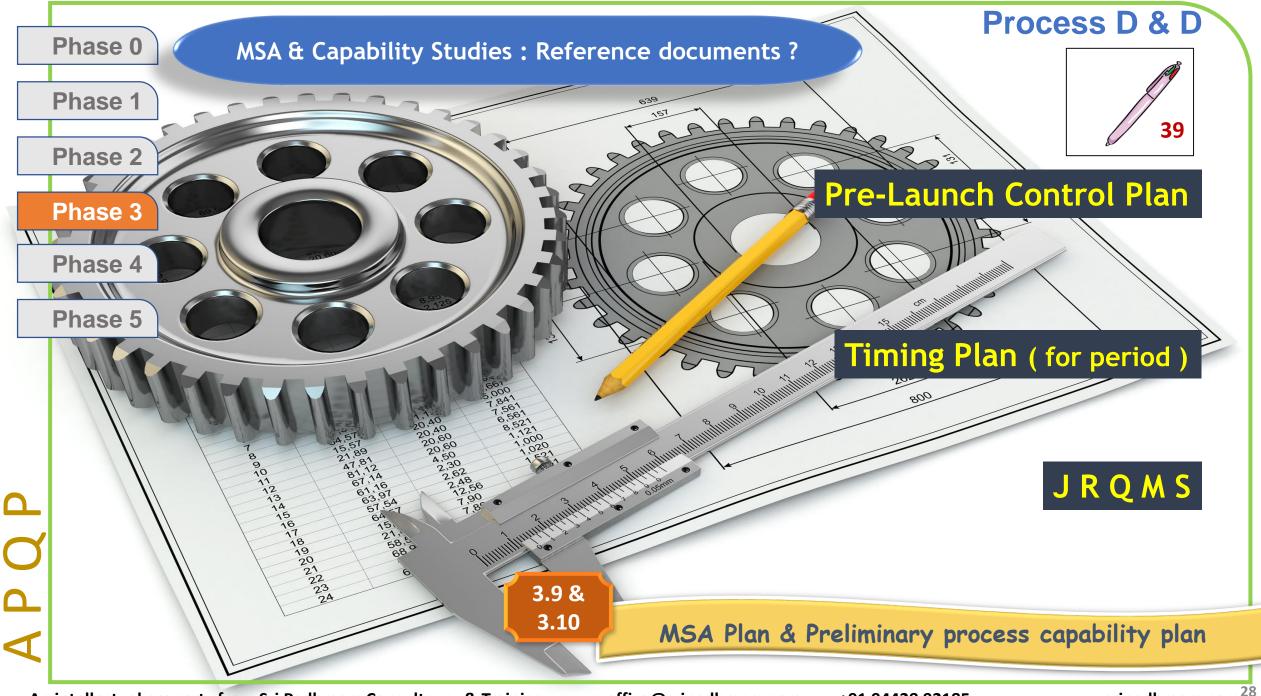
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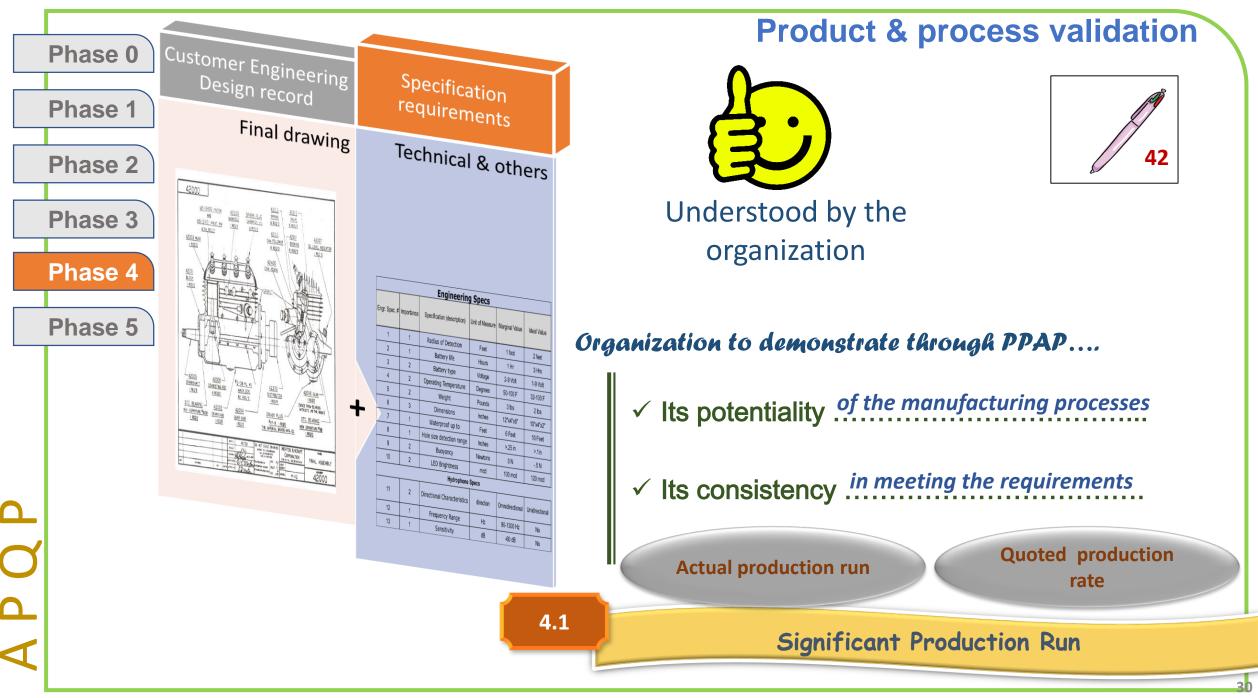
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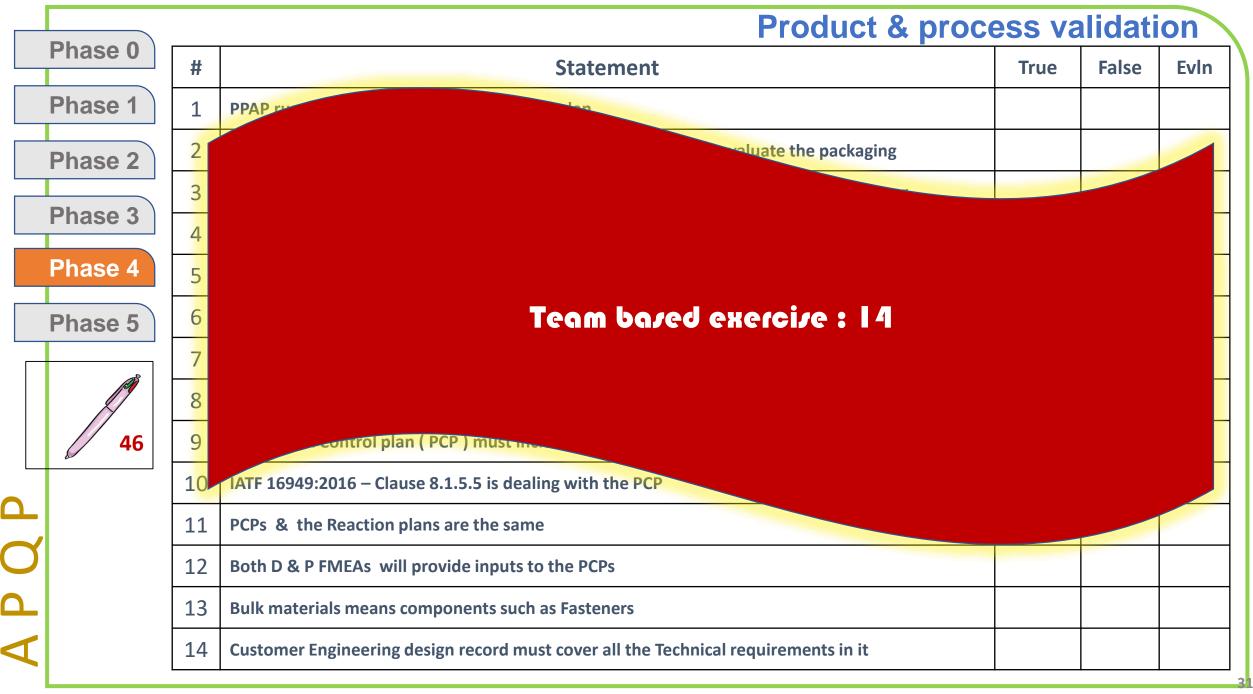
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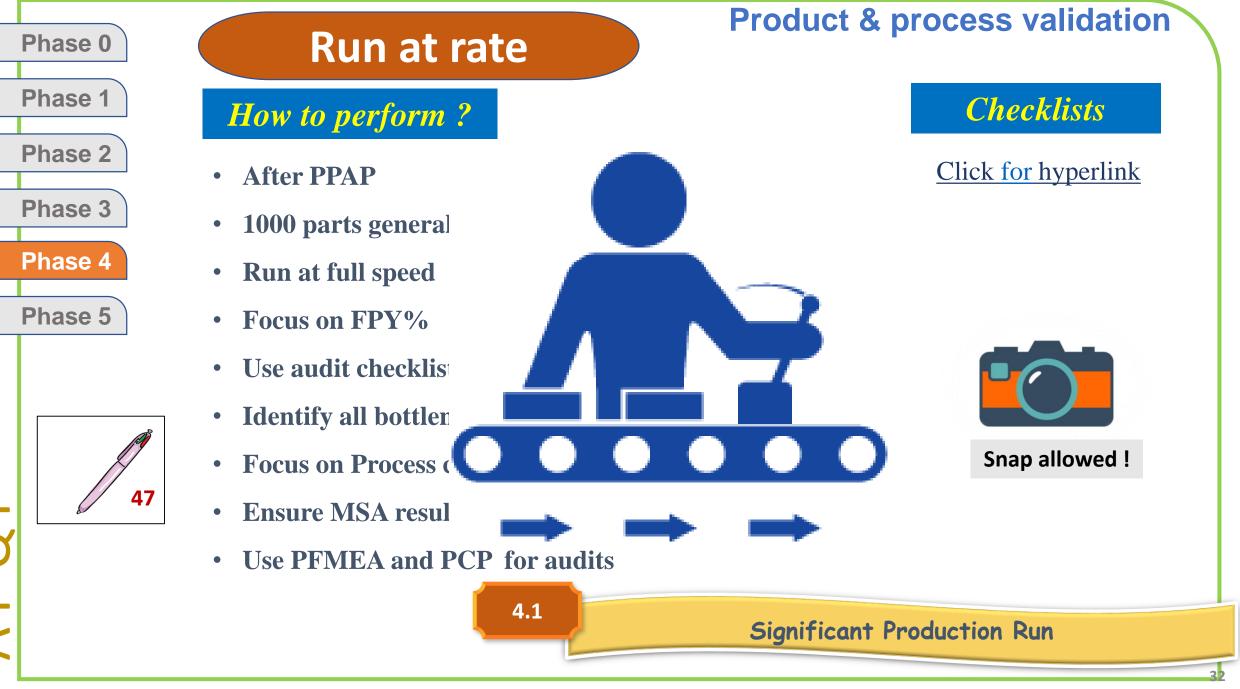


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Product & Process validation

✓ Involve your Top Management !

✓ Inform the Status !

APQP Meeting

✓ Gain support !

Management support

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Phase 0

Phase 1

Phase 2

Phase 3

Phase 4

Phase 5

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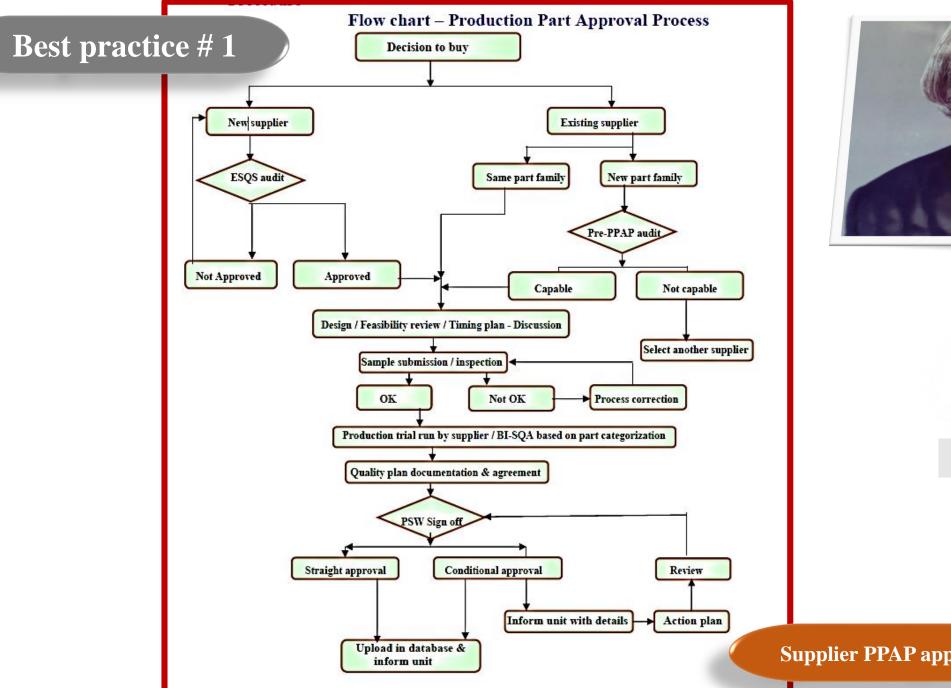
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Supplier PPAP approval – a TVS model

Tricky Part of PPAP?



Pass Through Characteristics

Black Box Items

ROHS & MD systems

Part Weight Criteria

Checked & Marked Prints

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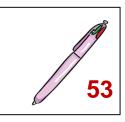
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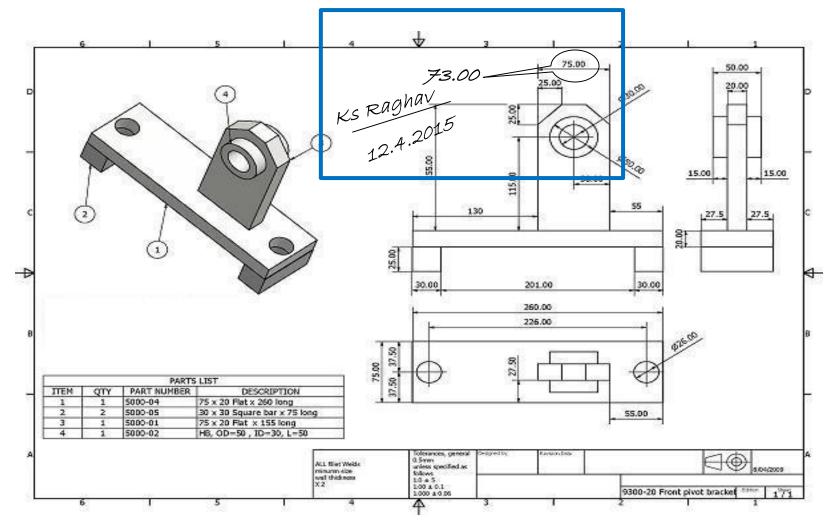
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An engineering drawing - modified, signed and dated by the customer engineer



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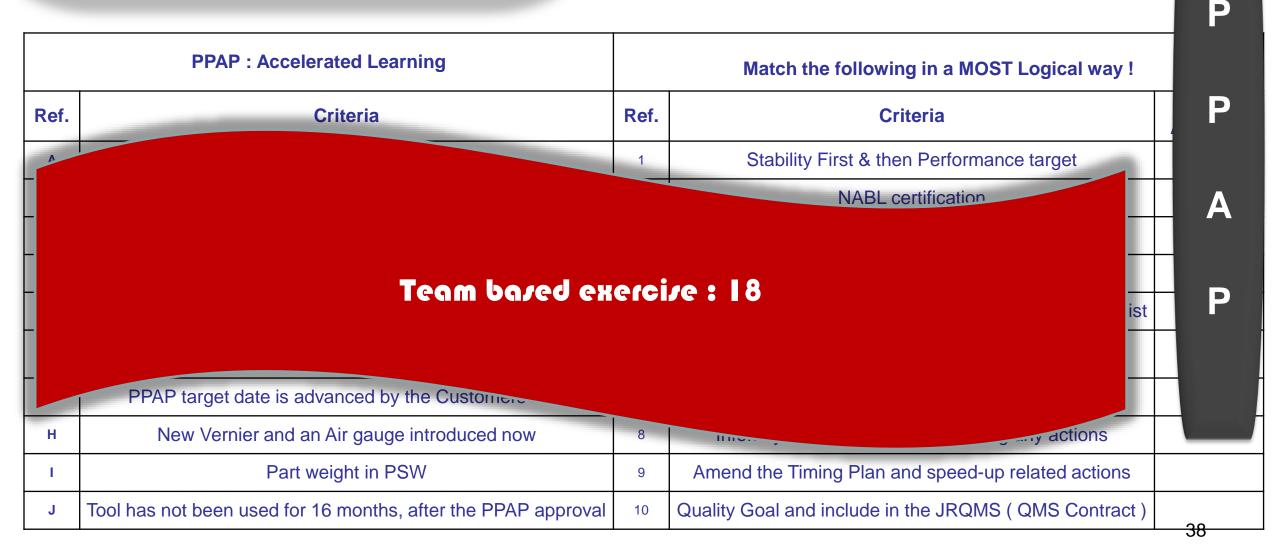
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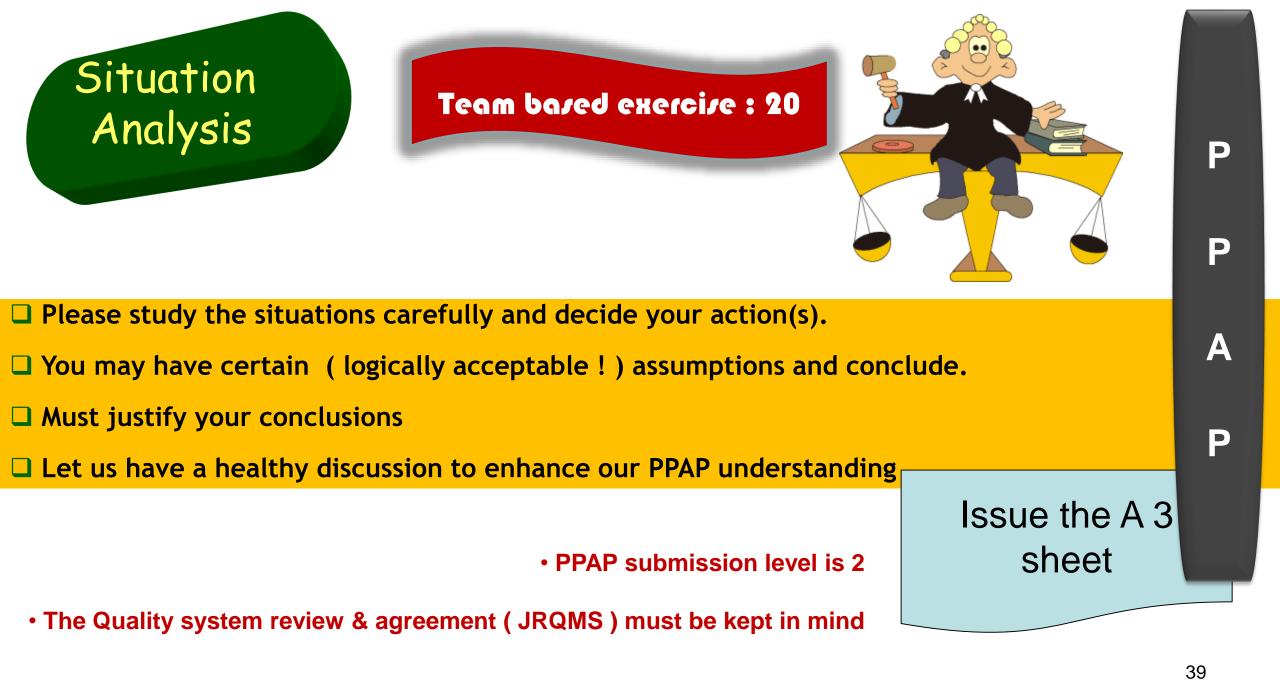
Accelerated Learning Process Matching Exercise





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