

PREVIEW QUESTION BANK

Module Name : imb24-mg45 Advanced Product Quality Planning-APQP-ENG
Exam Date : 18-May-2024 Batch : 09:00-12:00

Sr. No.	Client Question ID	Question Body and Alternatives	Marks	Negative Marks
Objective Question				
1	15381001	<p>What is APQP?</p> <ol style="list-style-type: none"> 1. Structured process for ensuring customer satisfaction 2. Quality Control Process 3. Development of Documents for ease of ISO quality Audit 4. Ensuring that data is collected and analyses when there is a failure <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
Objective Question				
2	15381002	<p>How many phases are there in APQP?</p> <ol style="list-style-type: none"> 1. 3 2. 4 3. 5 4. 6 <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
Objective Question				
3	15381003	<p>How many activities there are in APQP?</p> <ol style="list-style-type: none"> 1. 3 2. 4 3. 5 4. 6 <p>A1 : 1</p> <p>A2 : 2</p>	2.0	0.00

		A3 : 3		
		A4 : 4		

Objective Question

4	15381004	<p>APQP was developed in the 80s due to the product complexity of which industry?</p> <ol style="list-style-type: none"> 1. Aircraft Industry 2. Machine Tool Industry 3. Guided Missiles for Defense 4. Automobile Industry <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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Objective Question

5	15381005	<p>The standardised APQP process has a significant impact on</p> <ol style="list-style-type: none"> 1. New Product Development 2. Traceability 3. Robust Design 4. Supplier Selection <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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Objective Question

6	15381006	<p>APQP helps sustain the complexity in supply chains because it:</p> <ol style="list-style-type: none"> 1. Has the original CTQs and special characteristics 2. Is a living document, and hence has the updated process and knowledge captured 3. Sets the expectations of the Supply Chain 4. Clearly talks about supplier selection based on capability <p>A1 : 1</p> <p>A2 : 2</p>	2.0	0.00
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		A3 : 3		
		A4 : 4		

Objective Question

7	15381007	<p>What is the primary goal of feedback in APQP?</p> <ol style="list-style-type: none"> 1. To identify potential failure modes 2. To monitor process performance 3. To reduce variation 4. To improve customer satisfaction <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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Objective Question

8	15381008	<p>One of the goals of APQP is</p> <ol style="list-style-type: none"> 1. To plan before acting 2. To reduce Value Engineering Cost 3. To reduce efforts in Quality Control 4. To develop a plan as per the progress <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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Objective Question

9	15381009	<p>A robust APQP will</p> <ol style="list-style-type: none"> 1. Anticipate and prevent issues 2. Explain the Process of APQP 3. Ensure the supplier is highly rated 4. Help you focus on incoming Quality Control <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p>	2.0	0.00
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		A4 : 4		
Objective Question				
10	15381010	<p>APQP will first</p> <ol style="list-style-type: none"> 1. Validate before moving forward 2. Tell you the steps so one doesn't miss a critical item 3. Teach you the terminology 4. Require robust Quality Engineering <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
Objective Question				
11	15381011	<p>How does APQP contribute to reduced variation?</p> <ol style="list-style-type: none"> 1. By implementing statistical process control 2. By using advanced automation techniques 3. By standardizing processes and procedures 4. By increasing the frequency of quality audits <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
Objective Question				
12	15381012	<p>What comes before the 3rd phase of "Process Design and Verification"?</p> <ol style="list-style-type: none"> 1. Product and Process Benchmark Data 2. Plan and Define Program 3. Product Design and Development Verification 4. Voice of Customer <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00

Objective Question

13	15381013	<p>What is the main objective of the "Plan and Define Program" phase?</p> <ol style="list-style-type: none"> 1. Assure that the customer needs and expectations are clearly understood 2. All relevant Data is collected and analysis is correctly done 3. The team's expectations and phases of APQP are clearly understood 4. Benchmarking is done of all processes that will help in operations excellence <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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Objective Question

14	15381014	<p>One of the tools to convert the voice of the customer into product specification is</p> <ol style="list-style-type: none"> 1. Quality Function Deployment 2. Robust Technology 3. Quality Engineering 4. Customer Delight <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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Objective Question

15	15381015	<p>Along with Voice of Customer, Benchmark Product/Process Data, and Product/Process Assumptions, one significant input in the first phase comes from</p> <ol style="list-style-type: none"> 1. Warranty Data 2. Customer Inputs 3. Product Reliability Studies 4. Cost of Poor Quality <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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Objective Question				
16	15381016	<p>One of the significant outcomes of the first phase of the APQP is</p> <ol style="list-style-type: none"> 1. Cost of Non-Conformance Understanding 2. Warranty Plan 3. Critical to Quality Characteristics 4. Quality Assurance Plan <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00

Objective Question				
17	15381017	<p>Along with CONC, Design Goals, and reliability & quality goals, one more significant outcome of the first phase is</p> <ol style="list-style-type: none"> 1. Preliminary list of special product and process characteristics 2. Business and marketing strategy 3. New market research objectives 4. Go or No Go Decision <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00

Objective Question				
18	15381018	<p>Amongst the many outputs of the Plan and Define phase, which output helps to set the target cost of the product?</p> <ol style="list-style-type: none"> 1. Preliminary Bill of Materials 2. Management Support 3. Preliminary Procsss Flow Chart 4. Product Assurance Plan <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00

Objective Question				
19	15381019		2.0	0.00

	<p>The design goals, Reliability & Quality Goals, and Preliminary List of Special Products and Process Characteristics are outputs in which phase of the APQP process?</p> <ol style="list-style-type: none"> 1. Phase 2 2. Phase 1 3. Phase 3 4. Phase 5 <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>		
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Objective Question

20	15381020	<p>What are the two significant inputs required to get Design Goals, Reliability & Quality Goals, Preliminary List of Special Product and Process Characteristics as outputs in phase one APQP process?</p> <ol style="list-style-type: none"> 1. Voice of Customers & Business Plan/Marketing Strategy 2. Voice of Customer & Product Reliability Studies 3. Product/Process Benchmark and Business Plan/Marketing Strategy 4. Customer Inputs and Business Plan/Marketing Strategy <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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Objective Question

21	15381021	<p>What is the purpose of doing DFMEA?</p> <ol style="list-style-type: none"> 1. To assess the probability of failure and the effect of that failure 2. To systematically go through the recommended steps to complete the DFMEA document 3. To ask specialists in the organisation to comment on the DFMEA process 4. Because it is one of the needs of APQP <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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Objective Question

22	15381022	<p>Fill in the two correct words " Design _____ Effect Analysis " to complete the full form of DFMEA</p> <ol style="list-style-type: none"> 1. For, Manufacturing 2. Failure, Method 3. For, Method 4. Failure, Mode <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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Objective Question

23	15381023	<p>Which of the following in not an output of Phase 1 of APQP and input on Phase 2?</p> <ol style="list-style-type: none"> 1. Voice of Customers 2. Preliminary BOM 3. Quality Goals 4. Cost of Non Conformance Targets <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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Objective Question

24	15381024	<p>In which Phase is DFMEA done?</p> <ol style="list-style-type: none"> 1. Phase 2 2. Phase 1 3. Phase 3 4. Phase 4 <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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Objective Question

25	15381025		2.0	0.00
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		<p>This phase is about the elements of the planning process during which design features and characteristics are developed into a near-final form:</p> <ol style="list-style-type: none"> 1. Phase 2 2. Phase 1 3. Phase 3 4. Phase 4 <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>		
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Objective Question

26	15381026	<p>In APQP Process, the prototype is built to verify that the product:</p> <ol style="list-style-type: none"> 1. Meets the quality desired 2. Meets the objectives of the voice of the customer 3. Can be manufactured by the company 4. Meets the final DFMEA probability of failure <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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Objective Question

27	15381027	<p>DFMEA, Design for Manufacturability and Assembly, Design Verification, and Design Reviews are outputs at which phase?</p> <ol style="list-style-type: none"> 1. Phase 1 2. Phase 2 3. Phase 3 4. Phase 4 <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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Objective Question

28	15381028		2.0	0.00
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The prototype is made using the control plan and thus is a big source providing feedback on

1. How the process meets the desired specifications
2. Quality Control
3. Communicate any concerns, deviations, and/or cost impact to the customer
4. The completeness of Bill of Material

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

29	15381029	<p>Controlling drawings, as the output of phase 2, should be reviewed by the planning team to determine characteristics that affect fit, function, durability:</p> <ol style="list-style-type: none"> 1. and Manufacturability 2. and Quality 3. and Ergonomics 4. and/or governmental regulatory safety requirements <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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Objective Question

30	15381030	<p>Which aspect of APQP focuses on improving delivery and service?</p> <ol style="list-style-type: none"> 1. Corrective Action 2. Feedback 3. Assessment 4. Customer satisfaction <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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Objective Question

31	15381031		2.0	0.00
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In addition to drawings and performance specifications, material specifications should be reviewed for:

1. Special Characteristics relating to physical properties, performance, environmental, handling, and storage requirements
2. Meeting the Cost Targets
3. Meeting The Cost of Nonconformance (CONC)
4. Development of the supply chain

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

32	15381032	<p>The DFMEA, Product Assurance Plan, and/or Design Reviews may identify new:</p> <ol style="list-style-type: none"> 1. Warranty Data 2. Equipment and Facilities Requirements 3. Special Characteristics 4. Drawback in Quality Goals <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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Objective Question

33	15381033	<p>One of the outputs of Second Phase of APQP is:</p> <ol style="list-style-type: none"> 1. Quality Goals 2. Quality Function Deployment 3. Gauges/Testing Equipment Requirements 4. CONC Target <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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Objective Question

34	15381034		2.0	0.00
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	<p>Engineering Drawings, Engineering Specifications along with _____ are the outputs of Phase 2 of APQP</p> <ol style="list-style-type: none"> 1. Material Specifications 2. Product Assurance Plan 3. Preliminary Procss Flow Chart 4. Product Reliability Studies <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>		
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Objective Question

35	15381035	<p>A Simultaneous Engineering process designed to optimize the relationship between design function, manufacturability, and ease of assembly is considered under:</p> <ol style="list-style-type: none"> 1. Design for Manufacturability and Assembly 2. Design of Experiments 3. Design of Specifications 4. Design of Tool and Equipments <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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Objective Question

36	15381036	<p>As Design for Manufacturability and Assembly is a Simultaneous Engineering process, Product Quality Planning Team should consider:</p> <ol style="list-style-type: none"> 1. Design, concept, function, and sensitivity to manufacturing variation 2. Management Support 3. Quality Function Deployment Details 4. Control Plan <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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Objective Question

37	15381037		2.0	0.00
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The Product Quality Planning Team must assess the feasibility of the proposed design in Phase 2 and must be satisfied that the proposed design can be:

1. Manufactured, Assembled, Tested, Packaged, and Delivered in sufficient quantity, at an acceptable cost to the customer on schedule.
2. Outsourced
3. Prototyped
4. Manufactured at the highest level of quality without any investment

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

38	15381038	<p>Which one of the following is NOT an output of Phase 2 of APQP: Design Verification, Material Specifications, Product Reliability Goals, DFMEA?</p> <ol style="list-style-type: none"> 1. DFMEA 2. Design Verification 3. Product Reliability Studies 4. Material Specification <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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Objective Question

39	15381039	<p>What is the output of Phase 1?</p> <ol style="list-style-type: none"> 1. DFMEA 2. Design for Manufacturability and Assembly 3. Design Verification 4. CONC <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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Objective Question				
40	15381040	<p>Design for Manufacturability and Assembly is a Simultaneous Engineering process, The Product Quality Planning Team should also implement:</p> <ol style="list-style-type: none"> 1. Manufacturing and/or Assembly Process 2. Bill of Materials 3. Quality Goals 4. Quality Engineering <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00

Objective Question				
41	15381041	<p>Design for Manufacturability and Assembly is a Simultaneous Engineering process, The Product Quality Planning Team should also include:</p> <ol style="list-style-type: none"> 1. Process Adjustments 2. Process Flow Chart 3. Cost of Non Conformance 4. Management Support <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00

Objective Question				
42	15381042	<p>_____ are a description of the dimensional measurements and material and functional tests that will occur during prototype build.</p> <ol style="list-style-type: none"> 1. Prototype Control Plans 2. Material Specifications 3. Design Specification 4. Product /Material Special Characteristics <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00

Objective Question

43	15381043	<p>Which of the following is NOT a benefit of APQP?</p> <ol style="list-style-type: none"> 1. Improved Product Quality 2. Reduced Lead Times 3. Lower Production Costs 4. Increased Employee Turnover <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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Objective Question

44	15381044	<p>What is the key benefit of reducing variation in the APQP process?</p> <ol style="list-style-type: none"> 1. Improved Customer Satisfaction 2. Increased Employee Turnover 3. Lower Production Costs 4. Reduced Need for Corrective Action <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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Objective Question

45	15381045	<p>Preparing the DFMEA provides the team an opportunity to review the previously selected product and process characteristics and make necessary:</p> <ol style="list-style-type: none"> 1. Additions, Changes, and Deletions 2. Changes to overall Process Design 3. Changes to the understanding of all Failure Modes 4. Changes to Material Specifications <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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Objective Question				
46	15381046	<p>A DFMEA is a living document continually updated as customer needs and expectations require. A form of DFMEA is a:</p> <ol style="list-style-type: none"> 1. FMEA : Failure Mode and Effect Analysis 2. PFMEA : Process Failure Modes and Effect Analysis 3. Systems Failure Mode and Effects Analysis (SFMEA) 4. PFMEA: Product Failure Mode and Effect Analysis <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00

Objective Question				
47	15381047	<p>Which of the following is considered in Design For Manufacturability and Assembly?</p> <ol style="list-style-type: none"> 1. Material Handling 2. Material Specifications 3. CTQ 4. Engineering Drawings <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00

Objective Question				
48	15381048	<p>What is the second important objective of the output of the Second Phase?</p> <ol style="list-style-type: none"> 1. Prototype and feasibility studies – volumes, schedule, manufacturing. 2. Just developing an equipment list to buy 3. Developing good communication with the customer 4. Convert Customer Voice into Bill of Material for Costing <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00

Objective Question				
49	15381049		2.0	0.00

Sample size, frequency, and acceptance criteria of parameters are generally defined in the in-process test section of the:

1. Engineering Specification
2. Engineering Drawings
3. Design Verification
4. Prototype Build- Control Plan

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

50	15381050	<p>During prototype build, where are the descriptions of the dimensional measurements and material and functional tests that will occur documented?</p> <ol style="list-style-type: none"> 1. Engineering Specification 2. Prototype Control Plans 3. Design Verification 4. Engineering Drawings <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	2.0	0.00
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