

产品设计开发和验证 PRODUCT DESIGN AND DEVELOPMENT VERIFICATION (Prototype (FA) Confirmed)							
Design Verification 产品设计开发验证	14 供应商管理 Supply Chain Management (Supplier Selection)	供应商 数据库管理 Vendor information	Mandatory	G20 Design Validation	Sourcing	Sourcing Manager	
		供应商审核 Supplier Evaluation Audit Report	Mandatory		Sourcing	Sourcing Manager	
		供应商审核批准/ 资格取消 Approved Supplier Application / Disqualification	Mandatory		Sourcing	Sourcing Manager	
	15 工程规范编制 Engineering Requirement	工程规范, 材料规范, 工程图纸, 材料清单, 工程变更 等等 Drawings (Incl. Math Data), Materials, Specifications etc.. ECN Implement Checklist	Mandatory		PE	PE Manager	
	16 设计失效模式和后果分析 DFMEA	客户提供产品 - 设计失效模式和后果分析 DFMEA (Provided by Customer, If necessary)	Optional		N/A	N/A	
	17 可制造性和可装配性设计 DFM/DFA	可制造性和可装配性设计 DFM / DFA Checklist	Mandatory		PM	PM Manager	
	产品设计的批准 Product Design Approval	产品设计的批准 DFM / DFA Approval Form	Mandatory		PM	PM Manager	
	18 软件开发 Hardware & Software Development	网络设计; 网络部署 Network Design	新增IT设备, 设备工装、专用量具验收等 New IT tool, IT System, Equipment Tooling and Special Gages requirement		Mandatory	PM	PM Manager
		新增IT设备, 设备工装、专用量具验收等等 New Equipment, Tooling and Facilities Development &Validation			Mandatory		
	19 工装, 量具, 设施验收 Tooling and Equipment Validation	工装, 量具, 设施验收 报告 Tooling and Equipment Validation Report	Mandatory		QE	QE Manager	
20 样件试制 Prototype build	样件试制报告 (等级1 : PPAP) FAI Report (Level 1 : PPAP)	Mandatory	QE	QE Manager			
21 试生产控制计划 Pre-launch Control Plan	试生产控制计划 Pre-launch Control Plan	Mandatory	QE	QE Manager			
22 外购, 采购件 Purchase Part FAI	外购, 采购件 (等级1 : PPAP) Purchase Part FAI Submission (Level 1 : PPAP)	Mandatory	QE	QE Manager			
Product Validation 产品设计开发确认	23 车间平面布局图 Floor Plan Layout	车间平面布局图 Floor Plan Layout	Mandatory	IE	IE Manager		
	24 过程流程图 Process Flow Diagram	过程流程图 Process Flow Diagram	Mandatory	PE	PE Manager		
	25 过程失效模式及后果分析 PFMEA	过程失效模式及后果分析 PFMEA	Mandatory	PE	PE Manager		
	26 试生产控制计划 Pre-launch Control Plan	试生产控制计划 Pre-launch Control Plan	Mandatory	QE	QE Manager		
	27 确定产品和过程初始特殊特性 Special Characteristics Matrix	产品和过程的特殊特性 KPC, CC & SC list	Mandatory	PE	PE Manager		
	28 包装标准和规范 Packaging Standards & Specification	包装标准和规范 Packaging Standards & Specification	Mandatory	PE	PE Manager		
	29 作业指导书编制 Work Instruction (SOP)	作业指导书 (产品 & 过程) Work Instruction (SOP)	Mandatory	PE	PE Manager		
	30 检验指导书编制 Inspection Instruction (SIP)	检验指导书 (产品 & 过程) Inspection Instruction (SIP)	Mandatory	QE	QE Manager		
	31 测量系统分析计划 Measurement System Analysis Plan (MSA)	测量系统分析 MSA	Mandatory	QE	QE Manager		
	32 初始过程能力研究 Preliminary Process Capability Study	初始过程能力研究报告 Cmk, Pp/Ppk, Cpk/ Ppk - SPC	Mandatory	QE	QE Manager		
	33 外购, 采购件 Purchase Part FAI	外购, 采购件 (等级3 : PPAP) Purchase Part FAI Submission (Level 3 : PPAP)	Mandatory	PM	PM Manager		
产品和过程确认 PRODUCT AND PROCESS VALIDATION (生产部参与与转移 Production Involvement & Transition)							
Process Validation 过程设计开发确认	35 生产控制计划 Control Plan	生产控制计划 Control Plan	Mandatory	G40 Pilot (Try-Run)	QE	QE Manager	
	36 模具, 工具, 设备验收完成 Tooling/ Equipment Buyoff/ Hard Tool Completion	校正, 验证和验收 Calibration and Validation (Cgk/ Cmk)	Mandatory		PM	PM Manager	
	37 试生产 (小批量, 试产扩量) Pre-launch and ramp up production	试生产 (小批量, 试产扩量) Pre-launch and ramp up production	Mandatory		PM	PM Manager	
	38 测量系统分析研究 Measurement system Analysis (MSA)	测量系统分析报告 (MSA) MSA Report (Gages / Testing Equipment)	Mandatory		QE	QE Manager	
	39 供应商生产件批准程序 (等级3 : PPAP) Supplier's PPAP (Level3 - PPAP)	供应商生产件批准程序 (等级3 : PPAP) Supplier's PPAP (Level3 - PPAP)	Mandatory		SQE	SQE Manager	
	40 精益基础 LEAN Basic	节拍时间, 设备综合效率, 标准在制品, 标准作业进行改善, 标准作业工具, 消除浪费, 价值流程图, 5S 及可视化管理, 看板系统, 均衡化生产, 自动化, 单件流, 异常停止生产 Takt Time, OEE- Overall Equipment Effectiveness, Standard WIP, Standard Work Flow, Tools for Standard work, Waste Elimination, Value Stream Mapping, 5S & Visual Management, Kanban, Heijunka, Automation, Single Piece Flow, Stop @ Abnormality	Mandatory		All	All	
	41 过程能力研究 Process Capability Study	初始过程能力研究报告 Cmk, Pp/Ppk, Cpk/ Ppk - SPC	Mandatory		PE	PE Manager	
43 工程评审 Engineering Gate Review	工程评审报告 (产品&过程) Engineering Gate Review (Product & Process)	Mandatory	PM	PE Manager			
44 零件提交保证书 PSW Sign off by customer	零件提交保证书 PSW Documentation (等级3 : PPAP)	Mandatory	PM	PM Manager			