

## .020 Development Main Order

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			Production Eng. Equipment (APE)
			Quality Assurance Lab. (AQL)
			Quality Assurance Lab. (AQL)
			Quality Assurance Production (AQP)
			Quality Assurance Production (AQP)
003 / no international standard	024 Mechanics	AEx	
			Production Eng. Equipment (APE)
			Quality Assurance Lab. (AQL)
			Quality Assurance Production (AQP)
			Quality Assurance Production (AQP)
			Project Purchasing (ABP)
			Supplier Quality (ABQ)

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Role
Configuration Manager
Function Responsible
Requirements Manager
Systems Engineer
Hardware Engineer
Hardware Engineer
PCB Designer
Sample Responsible
Senior Manager
Supplier Responsible
Team Leader Hardware
Technology Dev. & Qualification (AET)
Technology Dev. & Qualification (AET)
Technology Dev. & Qualification (AET)
Technology Dev. & Qualification (AET)
Hardware Engineer
Hardware Engineer
Hardware Engineer
Senior Manager
Software Architect
Software Engineer
Software Integrator
Supplier Responsible
Team Leader Software

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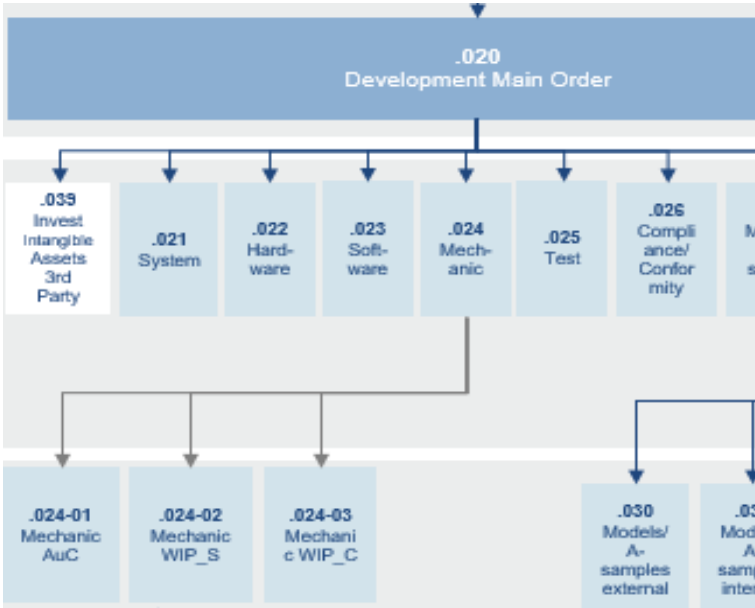

Process/ Description
Config management for project and releases
Must be planned only if the project requires it
External consultants or personnel service providers
Transport / Accommodation / Additional expenses
Hardware Engineer
EMC Measurements
Can be planned in Hardware and/or Mechanics
Must only be considered when the senior manager posts hours
Must be planned only if the project requires it
[AET] Simulation support electronics
[AET] PCB design checks
[AET] Technology consulting services
[AET] Development-accompanying measurements (not DV, PV)
External consultants or personnel service providers
External EMC test cost
Hardware development tools, infrastructure and test equipment [only project specific]
[AET] Infrastructure cost for simulation support electronic
Transport / Accommodation / Additional expenses
Support APE in the product-specific design and setup of EOL-Test and/or EOL-calibration equipment.
Support AQL in the product-specific design, creation or debugging of test equipment.
Support AQL with evaluation and interpretation of data gathered in DV/PV or by specific measurements with DUTs before/after DV/PV.
Must only be considered when the senior manager posts hours
Must be planned only if the project requires it
[KPIT] Offshore software developer
[KPIT] Offshore software project lead

[KPIT] Onsite technical lead
External consultants or personnel service providers
Debugger [only project specific] (e.g. iSystems)
Network Interfaces [only project specific] (e.g. VN7610)
Transport / Accommodation / Additional expenses
Support APE in the product-specific design and setup of EOL-Test and/or EOL-calibration equipment
Support AQL in the product-specific design, creation or debugging of test equipment
Support AQL with evaluation and interpretation of data gathered in DV/PV or by specific measurements with DUTs before/after DV/PV
Support AQP in problem analysis during production ramp-up (e.g. analysis of EOL data)
Support AQP after SOP in problem analysis (e.g. analysis of EOL data)
Mechanics Engineer
Can be planned in Hardware and/or Mechanics
Must only be considered when the senior manager posts hours
Must be planned only if the project requires it
[AET] Technology consulting services
[AET] Simulation support mechanics
[AET] Development-accompanying measurements (not DV, PV)
External consultants or personnel service providers
Development-accompanying external material testing
[AET] Infrastructure cost for simulation support mechanics
Transport / Accommodation / Additional expenses
Support APE in the product-specific design and setup of EOL-Test and/or EOL-calibration equipment
Support AQL with evaluation and interpretation of data gathered in DV/PV or by specific measurements with DUTs before/after DV/PV
Support AQP during production ramp-up in problem analysis. (e.g. analysis of EOL data)
Support AQP after SOP in problem analysis. (e.g. analy. of EOL data)
Support ABP for buy parts, e.g. in terms of data provision, test, qualification, release, ... of single components and complex parts
Support ABQ with the definition of special measurement methods onsite the supplier (e.g. for complex buy parts or pre assemblies)

Must only be considered when the senior manager posts hours
External consultants or personnel service providers
Test infrastructure [only project specific]
Transport / Accommodation / Additional expenses
[HW] Design and build-up of internal and external A-samples
[ME] Design and build-up of internal and external A-samples
only A-sample related effort
[SW] Design and build-up of internal and external A-samples
[AET] Support fo A-sample build-up
Material cost for internal and external A-samples
KOCHI only - content see 029 for external samples
KOCHI only - content see 029 for internal samples
Soft tools for Models & A-samples
[ASR] MCAL
[ASR] Vector HLP
[ASR] Vector SIP
[ASR] Vector SLP
Basic software configuration tool [only project specific] (e.g. DaVinci Configurator Pro)
Bus simulation [only project specific] (e.g. CANoe)
Calibration tool [only project specific] (e.g. CANape)
Compiler [only project specific] (e.g. Tasking)

Debugging & automation [only project specific] (e.g. Contino prova, WinIDEA)
Diagnostic specification tool [only project specific] (e.g. CANdela)
FBL
Flashtools/OBD [only project specific] (e.g. vFlash, ODIS, Monaco)
Software component development tool [only project specific] (e.g. DaVinci Developer)
Virtual Developing and Testing AUTOSAR Software [only project specific] (e.g. vVirtualTarget)

Comments
Engineering activitites
Engineering activitites
Engineering activitites
Engineering activitites
External Engineering Costs
Travel
Engineering activitites
Engineering activitites
Engineering activitites
Engineering activitites
Engineering activitites
Engineering activitites
Engineering activitites
Engineering activitites
Engineering activitites
Engineering activitites
External Engineering Costs
Other Costs
Other Costs
Other Costs
Travel
Engineering activitites
Engineering activitites
Engineering activitites
Engineering activitites
Engineering activitites
Engineering activitites
Engineering activitites
Engineering activitites
External Engineering Costs
External Engineering Costs



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Engineering activitites
Engineering activitites
Engineering activitites
External Engineering Costs
Other Costs
Travel
Engineering activitites
Engineering activitites
Engineering activitites
Engineering activitites
Engineering activitites
Engineering activitites
Engineering activitites
Engineering activitites
Engineering activitites
KONA: Element is used for external samples only
Engineering activitites
Engineering activitites
Engineering activitites
Engineering activitites
Engineering activitites
Engineering activitites
Engineering activitites
Consumables/Material
KONA and Europe+ do not use this element
KONA and Europe+ do not use this element
Other Cost
License Fee
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