## **Operational Restart Readiness Checklist**

for the Automotive Supply Chain

This 13-point checklist highlights key areas to consider from an operational perspective for risks in the restart of your automotive manufacturing operations.

The first checklist is an overview of the 13 topics related to restart of your operations. Each of these topics is then detailed in a separate checklist, providing further guidance to consider related to that topic. Please note that some items on these detailed checklists may not be applicable to your specific operations.

If your organization already has a restart checklist, you may want to compare with this checklist to ensure all key topics are addressed.

Utilize your organization's existing management systems and their processes as you consider each of these operational restart topics, (Quality based on ISO 9001 /1ATF 16949, Supply Chain based on MMOG/LE, Occupational Health & Safety based on ISO 45001, Environmental based on ISO 14001).

Beyond using these checklists to evaluate your organization's potential risk areas related to restart of operations and planning actions to address these risks, these checklists can also demonstrate to your customers and other interested parties how your organization is managing the restart of your operations. Additionally, we encourage the use of this checklist with your suppliers.

If you have any questions please visit www.qad.com, write to us at information@qad.com or call +1 805-566-6000.





## **Operational Restart Readiness** Revision date: **Q** Q∧D **Q**UISTEM Brought to you by Prepared by: **Overall for Organization** Person **Actions** Yes No N/A **Comment / Action Required Due Date** Responsible Contingency Plans 2 Inventory 3 Customer Delivery Plan **4** Delivery Transportation **5** Supplier Inventory **6** Outsourced Processes 7 Temporary Process Changes 8 Product Process Requalification

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9	Work Instruction						
10	Workforce Training						
11	Equipment Tooling Gaging						
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13	Communication Plans						
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				Cor	ntingency Plans							
	Actions	Yes	No	N/A	Comment / Action Required	Person Responsible	Due Date					
1	Customer-specific contingency notification											
2	Customer-specific contingency reporting requirements											
3	Start-up checklist, (is one available?)											
4	Current contingency plans											
5	Applicability of existing contingency plans to current known supply chain disruptions											
6	Develop missing contingency plans											
7	Process for capturing immediate lessons learned											
8	Immediate updates to Emergency Action Plan											

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				Cor	ntingency Plans						
	Actions	Yes	No	N/A	Comment / Action Required	Person Responsible	Due Date				
9	Review key risk topics based on disruption										
10	Identify additional risk topics based on disruption										
11	Training and testing of updated contingency plans										
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					Inventory							
	Actions	Yes	No	N/A	Comment / Action Required	Person Responsible	Due Date					
1	Physical and digital inventory of finished goods, WIP, raw materials & components (including service parts)											
2	Shelf-life sensitive items											
3	Storage conditions maintained											
4	Inventory in transition due to engineering changes											
5	Review lot control/traceability											
6	Review status of nonconforming product awaiting disposition, rework, etc.											
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	Actions	Yes	No	N/A	Com	ment /	Action	Required	erson ponsible	Due Date
1	Communicate with customers									
2	Open customer orders									
3	Backlog orders									
4	Cancel old orders									
5	Near-terrm customer delivery schedule									
6	Monitor daily variances									
7	Modifications to part sequencing									
8	Adjusted model mix									

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	Actions	Yes	No	N/A	Comr	ment /	Action	n Required	Pers Respo		Due Date	
9	Customer part re-approval											
10	New product launch schedule changes											
11	Engineering changes in progress											
	Status of open customer complaints, field failures for analysis and warranty											
13	Review/update scenario plan											
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				Delive	ery Transportation							
	Actions	Yes	No	N/A	Comment / Action Required	Person Responsible	Due Date					
1	Near-term shipments to customer releases											
2	Align physical and digital supply chain											
3	Availability of returnable packaging/load carriers											
4	Adjust part sequencing plans											
5	Outbound carrier availability											
6	Alternative carriers											
7	Customs/borders issues											
8												

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				Sup	pplier Inventory								
	Actions	Yes	No	N/A	Comment / Action Required	Person Responsible	Due Date						
1	Supplier Recovery Checklist												
2	Mapping of suppliers, (location)												
3	Supplier risk priority, (based on previous performance)												
4	Supplier finished goods												
5	Supplier Work-in-process												
6	Immediate delivery requirements												
7	Supplier purchased materials												
8	Engineering changes with suppliers												

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				Sup	plier Inventory							
	Actions	Yes	No	N/A	Comment / Action Requi	red Person	Due Date					
9	Suppliers deploy this checklist with sub-suppliers											
10	Supplied material transport arrangements											
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				Outso	ourced Processes							
	Actions	Yes	No	N/A	Comment / Action Required	Person Person	Due Date					
1	List of Outsourced process providers											
2	status of Outsourcea process providers, (shut-down, partial operations, staffing, financials,											
3	Risk assessment of outsourced process providers based on performance history											
4	Current open orders/contracts with Outsourced process providers											
5	Requalification of outsourced process providers											
6	Review of your inventory items at outsourced process providers											
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			Ter	npord	ary Process Changes								
	Actions	Yes	No	N/A	Comment / Action Required	rerson Responsible	Due Date						
1	Process flow changes, (operation location, sequence changes)												
2	Process layout changes, (takt time, work content)												
3	Review/update process risk assessment, (PFMEA)												
4	Temporary changes to process controls, (Control Plan)												
5	Temporary process descriptions and work instructions												
6	Training of personnel on temporary process changes and temporary controls												
7	Process re-qualification, (verfication/validation of changes)												
8	Temporary process deviation/concession												

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	Temporary Process Changes												
	Actions	Yes	No	N/A	Comment / Action Required	Person Responsible	Due Date						
9	Customer approval of process changes												
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			Prod	uct Pr	ocess Requalification								
	Actions	Yes	No	N/A	Comment / Action Required	Person Responsible	Due Date						
1	Ensure product complies with all requirements												
2	Process re-validation after shutdown												
3	Evaluate product compliance based on process changes												
4	Recheck error-proofing and reverify gaging												
5	Re-verify job set-ups and 1st piece approval												
6	Short-term process capability of special characteristics												
7	Re-initiate LPAs												
8	Review status of open Quality Alerts, deviations/concessions												

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	Actions	Yes	No	N/A	Comme	nt / Act	ion Required	Person Responsible	Due Date				
9	Review status of product containments previously in progress												
10	Review status of process changes/trials previously in progress												
11	Review manufacturing process and product audit schedules												
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				W	ork Instruction								
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1	Work instructions available for all quality and supply chain processes												
2	Work instructions describe essential internal process and customer systems steps/actions to appropriate level of detail												
3	Include customer-specific requirements												
4	Work instructions ensure good quality product and on-time delivery to customer												
5	Review/update current safety rules												
6	Re-train all operations personnel, (including temporary/contract workers)												
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	Work Instruction													
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				Wor	kforce Training		
	Actions	Yes	No	N/A	Comment / Action Required	rerson Responsible	Due Date
1	Check current job descriptions for accuracy						
2	Immediate staffing plan, (onsite personnel, shifts, work teams, work-from-home, etc.)						
3	Refresher training for workforce, (general and job-specific)						
4	Immediate back-fill of critical vacant functions that may not be returning to work						
5	Cross-training to support immediate and potential vacancies						
6	Manage awareness (e.g.pandemic, hurricane, fires, etc.						
7	Update HR policies (e.g. sick time, working hours, working locations)						
8	Training on revised work procedures						

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				Wor	kforce Training								
	Actions	Yes	No	N/A	Comment /	Action Required	Person Responsible	Due Date					
9	Temporary/contract workforce needs, alignment with interim policies												
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	Equipment Tooling Gaging													
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1	High-risk equipment/tooling (restart sensitive)													
2	Equipment restart procedures													
3	Tooling condition													
4	Review effectiveness of equipment/tooling/gaging packaging and preservation conditions													
5	Reset time-dependent maintenance, (preventive, predictive maintenance, periodic overhauls)													
6	Review spare parts inventory													
7	Check status of maintenance/tooling outsourced service providers													
8	Reset gage calibration status/schedule													

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	Equipment Tooling Gaging												
	Actions	Yes	No	N/A	Comment / Action Required	Person Responsible	Due Date						
9	Review equipment, tooling, gaging, scanner modifications previously in progress, (including production trials)												
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	Facility Infrastructure												
	Actions	Yes	No	N/A	Comment / Action Required	Person Responsible	Due Date						
1	Start-up and stabilize plant energy media, (electricity, compressed air, steam, chilled water, etc.)												
2	Review waste streams												
3	Inventory and sourcing of non- production items, (including additional PPE, cleaning supplies, etc.)												
4	Review stability and restart of IT systems while ensuring a focus on cybersecurity												
5	Review plant security protocol, (e.g. controlled access areas)												
6	Review existing services, (e.g. health and safety, food, cleaning, etc.)												
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Facility Infrastructure									
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	Communication Plans									
	Actions	Yes	No	N/A	Comment / Act	ion Required	Person Responsible	Due Date		
1	Identify communication channels for all affected stakeholders									
2	Customer communication plans									
3	Manage disruption communication plans									
4	Operation restart communication plans									
5	Launch changes									
6	Schedule changes									
7	Establish frequency and nature of short-term ongoing communications									
8										

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