



<b>Role Name</b>	<b>Mechanical Design Analyst</b>		
<b>Role Description</b>	<b>Analysis, Simulation, Optimization and improvement of machines</b>		
<b>Role purpose</b>	<b>Quality improvement and cost reduction by optimization of machine designs</b>		
<b>Document created by</b>	<b>Devinder Kumar</b>		
<b>Responsibilities Heads</b>	<b>KRA (Key Result Areas)</b>	<b>KPI (Key Performance Indicators)</b>	
Machine / Process Development	Analysis and simulation of machine designs using Engineering calculations and analysis softwares	Improvement comparison technical documents	
	Design reviews of new mechanisms and machines	KPI's of machines	
Cost reduction	Optimization of mechanisms, structure to reduce cost	Cost Objectives.	
	Reduce failures in 1st time design by simulation and prototype testing	Cost Objectives.	
Budgeting & layouts	Developing 3D plant layout simulation capabilities to optimize movements, operational efficiency		
Quality Management	To improve glass quality in terms of Cutting and Grinding size accuracies, surface finish, repeatability	Cp, Cpk report	
	Assist in Preparing DFMEA / PFMEA for the Equipment / Process.	Process yields, Customer Audit Score.	
	To assist in implementing design standards (JIS/BS/ISO)	Quality Audit Scores for TPM / TQM	
Safety	Developing safety standards for machines	Safety standards	
		Safety audit score	
Manpower Development	Conduct trainings about machine design concepts, analysis and simulation		
	Successor development	Skill Matrix	
<b>REQUIREMENTS</b>			
<b>Knowledge</b>	<b>Machine Design, kinetics, Strength of materials, vibration, Matlab, Ansys</b>	<b>Experience (Number of years)</b>	<b>3~10 yrs.</b>
<b>Skills</b>	<b>Analysis</b>	<b>Qualification</b>	<b>B.E/B.Tech/PhD (Mechanical)</b>
<b>Internal</b>	<b>Customers</b>	<b>Other External parties/Vendors</b>	
All Departments in AIS	AIS Auto, Float, Arch. SBU's / AGC	Bystronic, Bando, Benteler, Glaston, Glass Robots, ATSC	