

Index sheet for Construction equipment commonly used in Petrochemical & Power Generation projects

Item	Equipment Description	Page	Number/s
1	Detailed Engineering Structural Steelwork		2
2	Piping Isometrics < 2"		3
3	Butterfly Valve		4
4	Ball Valve		5
5	Tower/ Column		6
6	Exchanger Sheet & Tube		7
7	Turbine Steam		8
8	Pump - Vertical		9

Detailed Engineering Structural Steelwork : 146 weeks

Processes

Edit

New +

Process	B1Main-Data	Main Key Activity	<div></div>	Weight Factor %	30	Chart
Process	B2Guidelines	Main Key Activity	<div></div>	Weight Factor %	3.33	Chart
Process	C1-C6Basics	Main Key Activity	<div></div>	Weight Factor %	3.33	Chart
Process	C7Prelim-Mat-List	Main Key Activity	<div></div>	Weight Factor %	0.68	Chart
Process	C8-C10Connections	Main Key Activity	<div></div>	Weight Factor %	23.33	Chart
Process	C11-C12-3D-Model	Main Key Activity	<div></div>	Weight Factor %	21.67	Chart
Process	C13-Issue-GA-Dwgs	Main Key Activity	<div></div>	Weight Factor %	1.33	Chart
Process	C14SBE-Approvals	Main Key Activity	<div></div>	Weight Factor %	3.33	Chart
Process	C15-C20WorkshopDoc	Main Key Activity	<div></div>	Weight Factor %	13	Chart

Piping Isometrics < 2"

Main Process List

Edit

New +

Process	Materials Allocated to Shop	Main Key Activity	<div></div>	Weight Factor %	5	Chart
Process	Cut Sand and Fit up Spools	Main Key Activity	<div></div>	Weight Factor %	20	Chart
Process	Weld complete spool	Main Key Activity	<div></div>	Weight Factor %	30	Chart
Process	Grind and Clean Welds	Main Key Activity	<div></div>	Weight Factor %	17	Chart
Process	Heat Treatment	Main Key Activity	<div></div>	Weight Factor %	5	Chart
Process	NDT	Main Key Activity	<div></div>	Weight Factor %	10	Chart
Process	Hydro/ Pneumatic Testing	Main Key Activity	<div></div>	Weight Factor %	5	Chart
Process	Dand Blasting/ or Pickling	Main Key Activity	<div></div>	Weight Factor %	2	Chart
Process	Galvanising/ Painting	Main Key Activity	<div></div>	Weight Factor %	4	Chart
Process	Ship	Main Key Activity	<div></div>	Weight Factor %	2	Chart

Butterfly Valve Vendor T

Main Process List

EditNew +

Process	Material Purchase + Ext	Main Key Activity	<div></div>	Weight Factor %	28	Chart
Process	Machine Body	Main Key Activity	<div></div>	Weight Factor %	21	Chart
Process	Machine Disc	Main Key Activity	<div></div>	Weight Factor %	8	Chart
Process	Machine Shaft	Main Key Activity	<div></div>	Weight Factor %	5	Chart
Process	Machine Seal Rings	Main Key Activity	<div></div>	Weight Factor %	16	Chart
Process	Valve Assembly	Main Key Activity	<div></div>	Weight Factor %	5	Chart
Process	Actuator/ Gear box fit	Main Key Activity	<div></div>	Weight Factor %	4	Chart
Process	Testing	Main Key Activity	<div></div>	Weight Factor %	6	Chart
Process	Painting	Main Key Activity	<div></div>	Weight Factor %	2	Chart
Process	Packing	Main Key Activity	<div></div>	Weight Factor %	5	Chart

Ball Valves						
<div><div>Main Process List</div><div>Edit</div><div>New +</div></div>						
Process	Materials Released to Shop	Main Key Activity	<div></div>	Weight Factor %	10	Chart
Process	Castings/ Forgings Sub-Supplier	Main Key Activity	<div></div>	Weight Factor %	10	Chart
Process	Maching Body, Bonnet	Main Key Activity	<div></div>	Weight Factor %	15	Chart
Process	Machine isc, Plug etc.	Main Key Activity	<div></div>	Weight Factor %	15	Chart
Process	Overlay, Insert Seating on Seat and Disc	Main Key Activity	<div></div>	Weight Factor %	10	Chart
Process	Radiography	Main Key Activity	<div></div>	Weight Factor %	5	Chart
Process	Lapping in of Ball+Seating Surfaces	Main Key Activity	<div></div>	Weight Factor %	5	Chart
Process	Assembly	Main Key Activity	<div></div>	Weight Factor %	15	Chart
Process	Hydro+ Time related Tests	Main Key Activity	<div></div>	Weight Factor %	5	Chart
Process	Painting/ Coating	Main Key Activity	<div></div>	Weight Factor %	5	Chart
Process	Pack/ Ship	Main Key Activity	<div></div>	Weight Factor %	5	Chart

Tower 1 : 342 Week

Main Process List

Edit

New +

Process	Issue Drawings	Main Key Activity	<div></div>	Weight Factor %	5	Chart
Process	Material Supply+ PO tests	Main Key Activity	<div></div>	Weight Factor %	10	Chart
Process	WPP + Cutting lists	Main Key Activity	<div></div>	Weight Factor %	3	Chart
Process	CNC Trays, Baffles etc.	Main Key Activity	<div></div>	Weight Factor %	5	Chart
Process	CNC Supporting	Main Key Activity	<div></div>	Weight Factor %	5	Chart
Process	Fit up, Man. Manways	Main Key Activity	<div></div>	Weight Factor %	8	Chart
Process	Shell Courses,Heads WELD	Main Key Activity	<div></div>	Weight Factor %	10	Chart
Process	Weld Skirt, Int Baffles, Support clips	Main Key Activity	<div></div>	Weight Factor %	5	Chart
Process	Assemble, weld weirs, Baffles, Downcomers	Main Key Activity	<div></div>	Weight Factor %	10	Chart
Process	Assemble Bubble caps, tray fittings etc	Main Key Activity	<div></div>	Weight Factor %	10	Chart
Process	Sress Relieve	Main Key Activity	<div></div>	Weight Factor %	5	Chart
Process	NDE	Main Key Activity	<div></div>	Weight Factor %	4	Chart
Process	Hydrostatic Testing	Main Key Activity	<div></div>	Weight Factor %	2	Chart
Process	Install Internals	Main Key Activity	<div></div>	Weight Factor %	10	Chart
Process	Painting	Main Key Activity	<div></div>	Weight Factor %	5	Chart
Process	Packing, Ship Preparation	Main Key Activity	<div></div>	Weight Factor %	3	Chart

Exchanger - Shell & Tube

Main Process List

Edit

New +

Process	Drawings & Details to Fabricator	Main Key Activity	<div></div>	Weight Factor %	<div>2</div>	Chart
Process	Material Supply + PO Test requirements	Main Key Activity	<div></div>	Weight Factor %	<div>7</div>	Chart
Process	WPP, Cutting Lists, Maching req.	Main Key Activity	<div></div>	Weight Factor %	<div>2</div>	Chart
Process	Machine Tube Sheets and Girth Flanges	Main Key Activity	<div></div>	Weight Factor %	<div>6</div>	Chart
Process	Prep Shell & Channels for welding	Main Key Activity	<div></div>	Weight Factor %	<div>3</div>	Chart
Process	Weld Girth Flanges to Shell/ Channels	Main Key Activity	<div></div>	Weight Factor %	<div>10</div>	Chart
Process	Layout Nozzle locations on Shell/ Channels	Main Key Activity	<div></div>	Weight Factor %	<div>2</div>	Chart
Process	Fit & weld Nozzles in Shell/ Channels	Main Key Activity	<div></div>	Weight Factor %	<div>10</div>	Chart
Process	Clean all internal welds	Main Key Activity	<div></div>	Weight Factor %	<div>2</div>	Chart
Process	Stress Relieve	Main Key Activity	<div></div>	Weight Factor %	<div>7</div>	Chart
Process	NDE	Main Key Activity	<div></div>	Weight Factor %	<div>5</div>	Chart
Process	Assemble & Insert Tube Bundle into Shell	Main Key Activity	<div></div>	Weight Factor %	<div>5</div>	Chart
Process	Fit and weld Tube Sheets	Main Key Activity	<div></div>	Weight Factor %	<div>18</div>	Chart
Process	Roll Tube Sheets(Expansion)	Main Key Activity	<div></div>	Weight Factor %	<div>3</div>	Chart
Process	Pre-Heat Tube to Tube Sheet welds	Main Key Activity	<div></div>	Weight Factor %	<div>3</div>	Chart
Process	Hydrotest Shell	Main Key Activity	<div></div>	Weight Factor %	<div>4</div>	Chart
Process	Install Channels	Main Key Activity	<div></div>	Weight Factor %	<div>3</div>	Chart
Process	Clean & Paint	Main Key Activity	<div></div>	Weight Factor %	<div>4</div>	Chart
Process	Final Inspection	Main Key Activity	<div></div>	Weight Factor %	<div>1</div>	Chart
Process	Pack & Ship	Main Key Activity	<div></div>	Weight Factor %	<div>3</div>	Chart

Turbine Steam : 357 Week

Main Process List

Edit

Now

Process	Materials Purchase/Release to shop	Main Key Activity		Weight Factor %	5	Chart
Process	Machine case CASTING	Main Key Activity		Weight Factor %	4	Chart
Process	Machine steam chest Casting	Main Key Activity		Weight Factor %	4	Chart
Process	Machine Diaphragm Casting	Main Key Activity		Weight Factor %	4	Chart
Process	Shaft Forgings	Main Key Activity		Weight Factor %	5	Chart
Process	Machine to Shaft	Main Key Activity		Weight Factor %	3	Chart
Process	Wheel Forgings	Main Key Activity		Weight Factor %	5	Chart
Process	Machine wheels	Main Key Activity		Weight Factor %	3	Chart
Process	Machine Governor Valve assemblies	Main Key Activity		Weight Factor %	3	Chart
Process	Nozzle Block & Blade forgings	Main Key Activity		Weight Factor %	3	Chart
Process	Radial Bearings	Main Key Activity		Weight Factor %	2	Chart
Process	Thrust Bearings	Main Key Activity		Weight Factor %	2	Chart
Process	Shaft Seals	Main Key Activity		Weight Factor %	2	Chart
Process	Lube Oil, pumps and drivers	Main Key Activity		Weight Factor %	3	Chart
Process	Lube Oil Filters and Coolers	Main Key Activity		Weight Factor %	2	Chart
Process	Governors and Over speed Trip Assemblies	Main Key Activity		Weight Factor %	2	Chart
Process	Ejectors and Intercoolers shaft seals	Main Key Activity		Weight Factor %	3	Chart
Process	Instrument and Controls	Main Key Activity		Weight Factor %	2	Chart
Process	Plates, nozzles lube oil reservoir	Main Key Activity		Weight Factor %	2	Chart
Process	Misc. pipe, valves and fittings	Main Key Activity		Weight Factor %	4	Chart
Process	Dynamic Balancing of Rotating Elem	Main Key Activity		Weight Factor %	2.5	Chart
Process	HydroTest Case and SteamChest	Main Key Activity		Weight Factor %	2	Chart
Process	Manufacture Oil Reservoirs	Main Key Activity		Weight Factor %	2.5	Chart
Process	Assembly of Turbine	Main Key Activity		Weight Factor %	15	Chart
Process	Running Test	Main Key Activity		Weight Factor %	2	Chart
Process	Performance Test	Main Key Activity		Weight Factor %	5	Chart
Process	Conservation	Main Key Activity		Weight Factor %	2	Chart
Process	Painting	Main Key Activity		Weight Factor %	3	Chart
Process	Packing/ Prepares for Shipment	Main Key Activity		Weight Factor %	3	Chart

Pumps - Vertical

Main Process List

Edit

New +

Process	Drawing release/ Material Purchase	Main Key Activity	<div></div>	Weight Factor %	<div>5</div>	Chart
Process	PMI Impeller Case & Cover	Main Key Activity	<div></div>	Weight Factor %	<div>5</div>	Chart
Process	Dye Pen cast machine surfaces	Main Key Activity	<div></div>	Weight Factor %	<div>5</div>	Chart
Process	Fabricate Base inclusive	Main Key Activity	<div></div>	Weight Factor %	<div>10</div>	Chart
Process	Machine Impellers	Main Key Activity	<div></div>	Weight Factor %	<div>10</div>	Chart
Process	Machine Diffusers	Main Key Activity	<div></div>	Weight Factor %	<div>10</div>	Chart
Process	Machine/weld suction & Discharge Columns	Main Key Activity	<div></div>	Weight Factor %	<div>7</div>	Chart
Process	Machine & weld Shaft Tubes	Main Key Activity	<div></div>	Weight Factor %	<div>3</div>	Chart
Process	Assembly	Main Key Activity	<div></div>	Weight Factor %	<div>25</div>	Chart
Process	Hydrostatic Testing	Main Key Activity	<div></div>	Weight Factor %	<div>5</div>	Chart
Process	Running Test	Main Key Activity	<div></div>	Weight Factor %	<div>5</div>	Chart
Process	Curve approval	Main Key Activity	<div></div>	Weight Factor %	<div>2</div>	Chart
Process	Painting	Main Key Activity	<div></div>	Weight Factor %	<div>5</div>	Chart
Process	Pack/ Ship	Main Key Activity	<div></div>	Weight Factor %	<div>3</div>	Chart