Below is a typical list of specifications for a metal fabrication for an OEM in the power or oil & gas industries. An actual list could be 2-3 times as long as this one.

	Rev:	
123abc	2	
Oem123456	2	
Spec number	<u>Rev</u>	Name
Oem1	2019	Supplier quality requirements
Oem2	2019	General fabrication requirements
Oem3	2019	Welding, weld NDT requirements, weld acceptance criteria
Oem4	2019	Surface preparation and coating of stainless steel
Oem5	2019	Surface preparation and coating of carbon steel
Oem6	2019	Electrical test requirements
Oem7	2019	Packaging requirements
Y14.5	2018	Dimensioning, tolerancing, engineering drawings
A2.4	2012	Weld symbols
A240	18	Chromium Nickel stainless steel plate
A36/M	19	Carbon structural steel
SNT-TDC-1A	2011	Weld NDT - visual testing
E165/M	18	Weld NDT - liquid penetrant testing
E709	15	Weld NDT - magnetic particle testing guide
SP-1	2016	Solvent cleaning
SP-10 / No. 2	2007	Near-white metal blast cleaning
	Oem123456 Spec number Oem1 Oem2 Oem3 Oem4 Oem5 Oem7 Y14.5 A2.4 A240 A36/M SNT-TDC-1A E165/M E709 SP-1	123abc 2 Oem123456 2 Spec number Rev Oem1 2019 Oem2 2019 Oem3 2019 Oem4 2019 Oem5 2019 Oem7 2019 Oem7 2019 Oem7 2019 Oem7 2019 SNT-TDC-1A 2012 A36/M 19 SNT-TDC-1A 2011 E165/M 18 E709 15 SP-1 2016

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Manufacturing and Quality Plan

Manufacturer name:	Qualified Industrial LLC		Part desc.:	air filter housi	ng	
Part number / rev:	123abc	Rev: 2	Customer:	Large power C	DEM	
Drawing number / rev:	Oem123456	Rev: 2	PO number:	410288392	Rev:	1

See notes at bottom of sheet for field explanations.

<u>Step / process</u>	Specification	<u>Characteristic</u>	Inspection or test	CTQ?	<u>Role</u>	<u> Tool / Gauge</u>	fail	Init.	<u>Date</u>
Purchase material ASTM A	ASTM A240 304L		verify cert		QA	<u></u>			
	ASTM A36/M		verify cert		QA				
Cut panels to length	Oem2	dimensions	measure	y	QA	tape measure			
	Oem123456								
Drill holes	Oem2	debur			QA				
	Oem123456	dimensions		У	QA	tape measure			
Bend	Oem2	dimensions	measure	y	QA	tape measure			
Weld assembly	Oem2	dimensions	measure	y	QA	tape measure			
	Oem123456								
Final welding	Oem3	weld size, quality	weld visual testing	у	WI	weld gauges			
	Oem123456		weld liquid penetrant testing						
	ASNT SNT-TDC-1A	****							
	ASTM E165/M								
Solvent clean	SSPC SP-1	surface dirt	inspect for oils, dirt	у	QA	cloth			
Madia blast	SSPC SP-10	surface profile	tost profig	.,	QA	electronic			
Media blast	2240 24-10	surface profile	test profie	У	QA	profile gauge or Testex tape			
	Oem4								

<u>Step / process</u>	<u>Specification</u>	<u>Characteristic</u>	Inspection or test	<u>CTQ?</u>	<u>Role</u>	<u>Tool / Gauge</u>	<u>Pass /</u> <u>fail</u>	<u>lnit.</u>	<u>Date</u>
Electrical / mechanical assy	Oem123456			у	QA				
	Oem6		electrical continuity checks	y	QA				
Final inspection	Oem123456				QA	quality checklist			
Packaging	Oem7	correct materials and construction method		y	QA	quality checklist			

Notes:

CTQ indicates whether a characteristic is critical to quality of the end product. All drawing requirements must be met on each

unit, however CTQ aspects are 100% verified on each and every unit.

Role indicates what role in the manufacturing company will perform the test. QA indicates a quality analyst.

WI indicates weld inspector.

Pass / fail - indicates whether the test or measurement successfully passed the requirement.

When the plan is complete, all steps should state "pass".

Init. - Initials of inspector or test analyst who verified characteristic

Date - enter the date on which the inspection was passed.