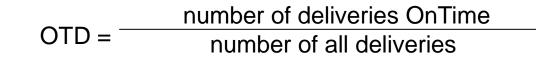
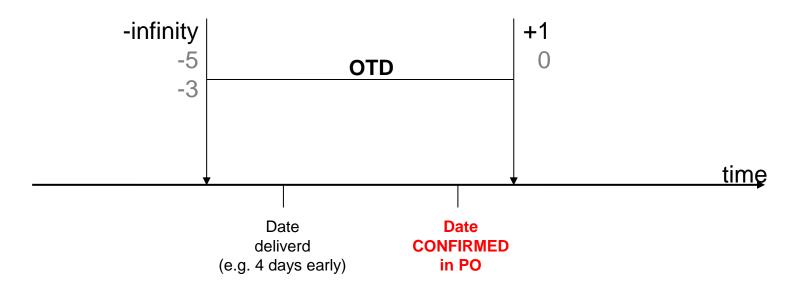


2012 Supplier Conference ABB Inc.



OnTime Delivery OTD-SUPPLIER







ABB's OTD vs. OTD-Source

Basis is comprised of all good receipt line items In a certain time bucket . Each delivery line is assessed to be either

- a) OnTime OTD = 100% or
- b) not OnTime **OTD = 0%**

All data is interpreted from the point of view of an ABB customer. Comparision is done against **Requested Date** (as NPS score needs to be improved) and not against supplier confirmed date!

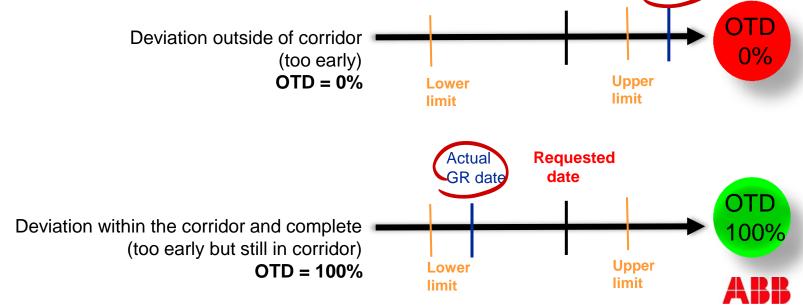
 OTD =
 number of complete deliveries OnTime

 number of all deliveries

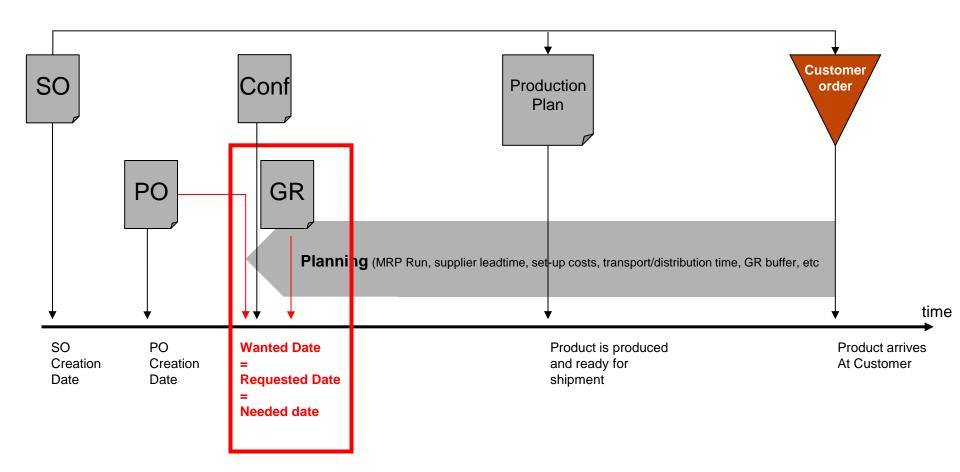
 OnTime Delivery Window: zero days late and infinite days early

 Requested

 date

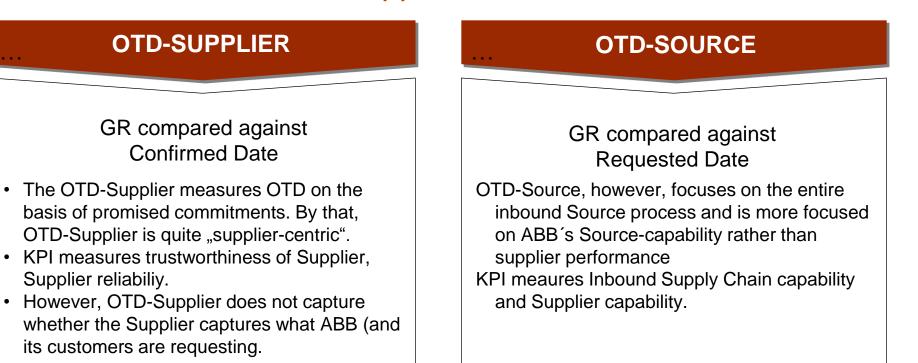


SOURCE OTD - How is the Wanted Date derived?





ABB's OTD Difference between OTD-Supplier and OTD-SOURCE

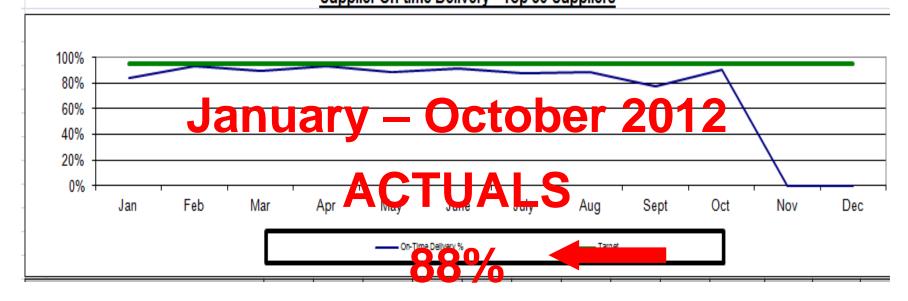


Example:Contractual agreed supplier lead time:6 weeksABB Requested Date:2 weeksSupplier delivers in3 weeksOTD-SUPPLIER: 100% and OTD-SOURCE:0%



OTD – ON TIME DELIVERY

2012 YEAR TO DATE Supplier On-time Delivery - Top 50 Suppliers



Actual: 95.2% 27 Suppliers that performed above the YTD average67.9% 26 Suppliers that performed below the YTD average

Note: Top 50 Suppliers represent around 70% of <u>Total PO Lines</u> – Top Performance of these Suppliers are expected



ON TIME DELIVERY TARGET

100%





OTD – ON TIME DELIVERY ACTIVITIES THAT WILL AFFECT YOUR OTD SCORE?

LATE DELIVERIES

SUPPLIER DOES NOT DELIVER ON "AGREED" PROMISED DATE.

BUYER DOES NOT RECEIVE PO ACKNOWLEDGMENT from the SUPPLIER.
 SUPPLIER DOES NOT RECEIVE REVISED PO FROM BUYER WITH UPDATES

SERVICE PO'S (I.E. DESIGN, INSTALLATION, RETENTION) –

SERVICES THAT ARE NOT PHYSICALLY RECEIVED AT OUR DOCK. BUYER MUST BE NOTIFIED WHEN WORK IS COMPLETE THROUGH SOME FORM OF DOCUMENT OR OTHER COMMUNICATION.

• ABB ENGINEER MAKES CHANGES with SUPPLIER and BUYER IS UNAWARE.

BUYER MUST BE NOTIFIED, FOR ANY REASON, IF THE SUPPLIER IS NOT GOING TO MEET THE STATED PO DOCK DATE.

DROP SHIPMENTS ('SHIP TO' DIFFERENT THAN 1250 BROWN ROAD) –

SIGNED PACKING SLIPS MUST BE FORWARDED TO YOUR BUYER.



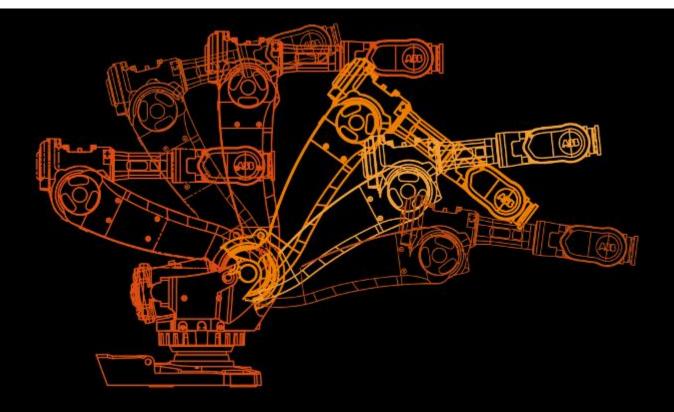
2012 ABB SUPPLIER SCORECARD – Auburn Hills

ABC COMPANY Vendor Code 2721234

On Time Del	ivery (OTD)		NC	MR	Cost Reduction (CRP)
	OTD	Non Co	onfor	ming	Cost reduction activities can
100%		Materia	l Re	ports	include but not limited to higher efficiency, low
98% 97% 96% 95%	95% OTD	generat	ted:	1	cost sourcing, new investments, quality system improvements, discount programs
94% 93% 92% GOAL	ACTUAL	non-confor	ming rep mber of l	ined by the number of ports generated divided line items received in the	discount programs, rebates, payment terms, and the like.
OTD Performa	nce – Rating	Quality R Performance	Rating	Points Awarded	Cost Reduction Program
95%-100% 92%-94% 90%-91%	10 9 7	99%-100% 95%-98% 90%-94%	10 9 8	10	in place with ABB? Yes 2 pts No 0 pts
<89%	5	<89%	0	S	upplier Performance Measurement
				В	EST IN CLASS : 22
	\sim			P	REFERRED: 20-21
Your cor	nposite score is:	> (22	2) Q	UALIFIED: 15-19

MUST IMPROVE: <14





QUALITY



THUMB DRIVE Documents...



- Supplier Quality Guidelines changes from 2011
 Quick Reference Guide updated contacts
- Packaging Guidelines NEW
- Logistics and Facilities Overview Presentation
- Supplier Requirements NEW
- Supplier Questionnaire NEW



Supplier Quality Guidelines Changes and Reiterations...

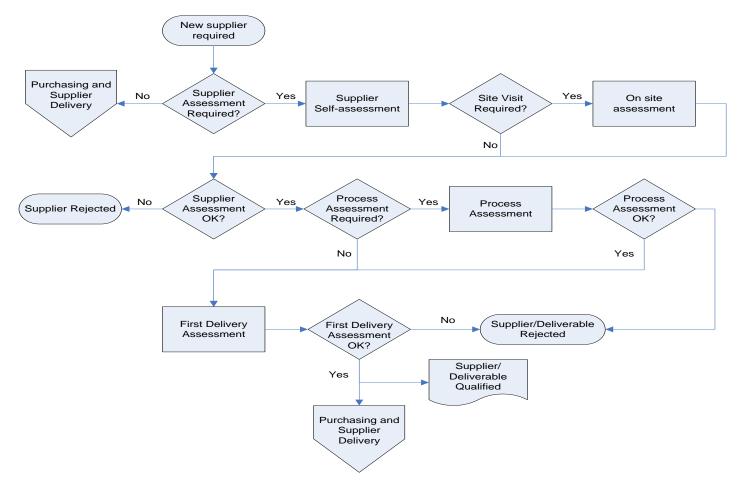
- If your 2012 SCORECARD ratings are less than "14" or state "MUST IMPROVE;" the SCM manager must give buyer prior approval for soliciting bids and/or placing orders with your company.
- SCORECARDS will be sent out in first quarter 2013
- Non-Conformance back-charge amount has been increased to \$85.00/hr
- If you ship in a service or material to ABB, you have agreed to our Supplier Quality Guidelines.
- All Critical Key Suppliers (CKS) are required to complete and submit form 9AKK102951, ABB Qualification Questionnaire.
- All Critical Key Suppliers (CKS) are required to read the Supplier Requirements, form 9AKK102949.

If you are here today, you are a CKS supplier! ③



Supplier Requirements – NEW FORM file name 9AKK102949

□ ABB Corporate is requesting all Critical Key Suppliers review and understand this supplement. Process flow from page 3:





Supplier Qualification Questionnaire – NEW FORM file name 9AKK102951

□ ABB Corporate is requesting all Critical Key Suppliers **complete** this form.

Completed forms can be sent to Erika Arms via email

Completed forms are due no later than December 20th, 2012

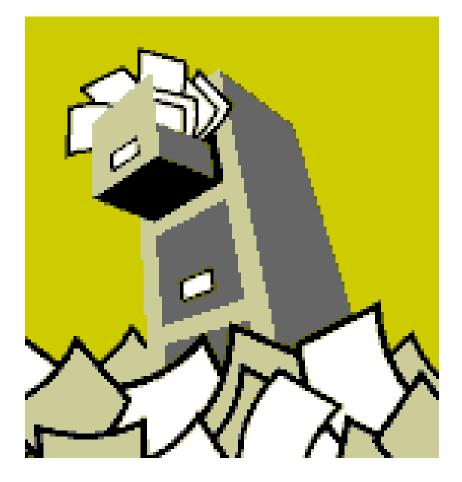
□ All completed supplier forms will be uploaded to ProSupply; a shared site in which Global SCM departments will have access to view.

Let's take a look at the form...

\..\..\Supplier Quality\Global Supplier Qualification_Process_Forms\2012\9AKK102951 ABB Supplier Qualification Questionnaire.xlsx



Non-Conforming Material Report's (NCMR)

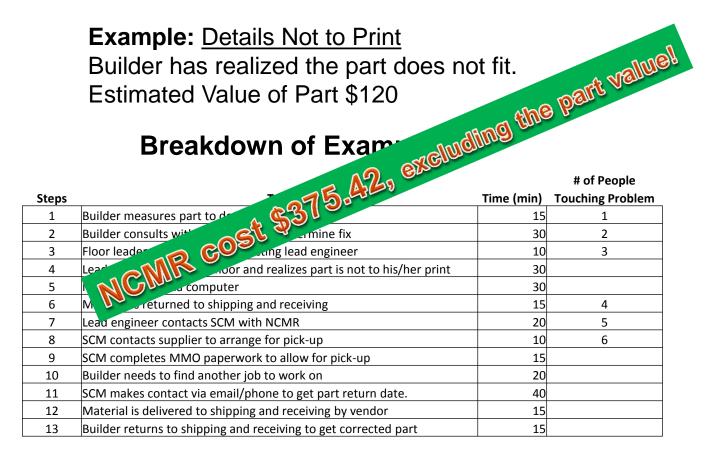




- Non-Conforming Material Report's (NCMR)
- Why are NCMR's issued?
- **Damaged Product**
- **Detail Not To Print**
- **Error in Controls Design**
- **Error in Mechanical Design**
- **Functional Failure**
- **Late Delivery**
- **Missing Part**
- Other
- **Shipping Damage**
- Workmanship
- Wrong Part Sent
- Wrong Quantity



How much can a NCMR cost?



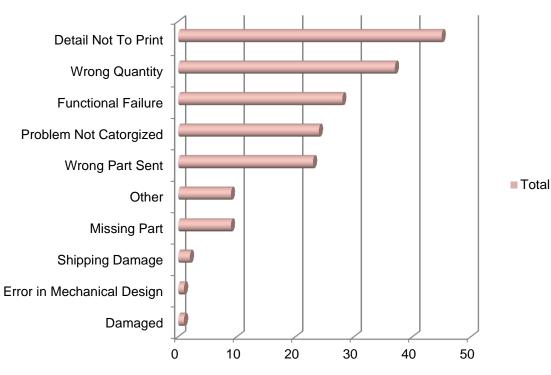
TOTAL TIME (MIN) 265



2012 YTD NCMR DATA

67 % of all NCMR's issued in building are supplier related.

NCMR Discrepancy





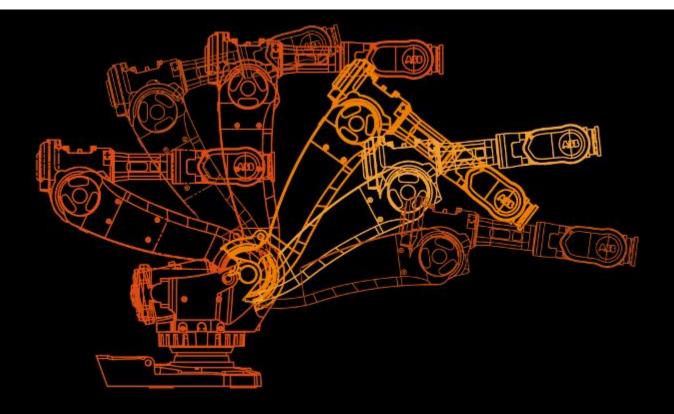
Here's the Objective! Let's <u>not</u> talk about NCMR's



Ship <u>on-time</u>...

- <u>Package</u> the product properly...
- Ship the purchase order <u>quantity</u> requested...
 - Ship in good quality...





PRICE - CRP



Cost Reduction Program...

What is the supplier cost reduction program:

ABB is looking for the activities in your facility which will reduce your production costs.

 Maintaining an active cost reduction program is crucial to a supplier's success with ABB. Not only does an active program increase a supplier's overall performance rating, it helps keep a supplier favorable compared to others in its commodity group by offering the most competitive pricing.



Cost Reduction Program...

What are some cost reductions?

- For cost reductions, we are looking for the activities in your facility which will reduce your production costs:
 - Process improvement for higher efficiency
 - Low cost outsourcing plans
 - New investments for productivity
 - Quality system enhancements
 - Programs for reducing waste, discount programs, rebates and the like.

Cost Reduction Programs will be rated as follows:

- Cost Reduction Program Rating
 - Yes 2
 - No 0



2012 ABB SUPPLIER SCORECARD – Auburn Hills

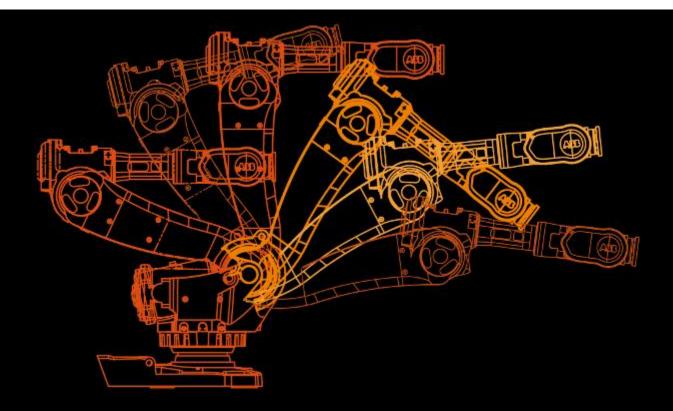
ABC COMPANY Vendor Code 2721234

On Time Delivery (OTD)	NCMR	Cost Reduction (CRP)
OTD	Non Conforming	Cost reduction activities can include but not limited to
100%	Material Reports	higher efficiency, low
98% 97% 96% 95%	generated: 1	cost sourcing, new investments, quality system improvements,
94% 93% 92% GOAL ACTUAL	Performance is determined by the number of non-conforming reports generated divided into the number of line items received in the given year.	discount programs, rebates, payment terms, and the like.
OTD Performance – Rating	Quality Rating Performance Points Awarded:	Cost Reduction Program
95%-100% 10 92%-94% 9	99%-100% 10 95%-98% 9 10	Yes 2 pts
90%-91% 7	95%-98% 9 IU 90%-94% 8	No 0 pts
<89% 5		plier Performance Measurement
	BES	T IN CLASS : 22
	PRE	FERRED: 20-21
Vour composito scoro		LIFIED: 15-19

Your composite score is:

22

MUST IMPROVE: <14



Logistics and Facilities Overview



Label Overview



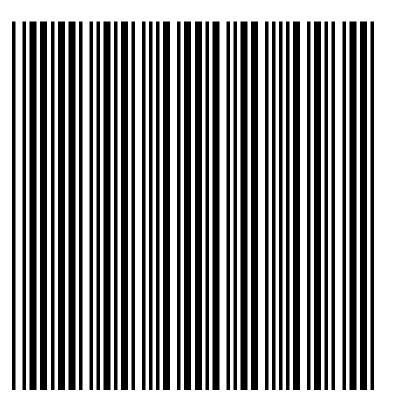
- Standard Label Format (4" x 6")
- Must be printed on white label stock
- Code 39 encodes:
 - 0, 1, 2, 3, 4, 5, 6, 7, 8, 9
 - Uppercase letters (A Z)
 - (Dash), \$ (Dollar), % (Percentage),
 (Space), . (Point), / (Slash), + (Plus)
 - Code 39 is also known as the "Code 3/9", "Code 3 of 9", "USS Code 39", "USD-3", "Alpha39", "Type 39"
 - All barcodes must be 100% visible and scanable



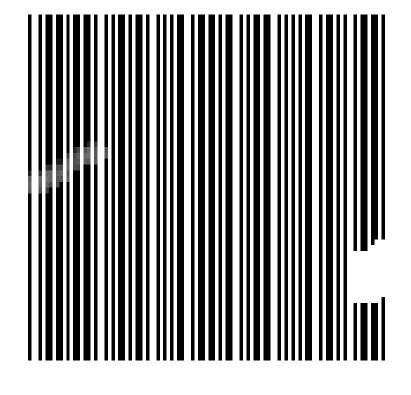
Barcode Samples

Acceptable

Unacceptable



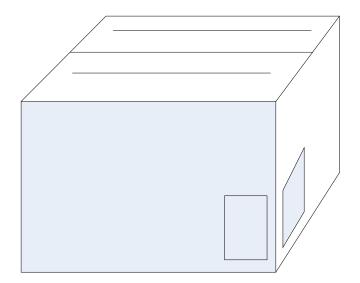
CODE39



CODE39



Label Placement



- Labels must be placed onto cartons after all packaging tape has been applied, i.e. do not cover any point of the label with tape, even if it is clear.
- Labels must be placed on the longest side of the carton and the adjacent short side.
- The leading edge is always the righthand side of the carton
- Labels must be placed no closer than 1¼ and 3 inches from the right edge of the carton (when possible).
- The bottom edge of the label should be between 1¼ and 3 inches from the bottom edge of the carton (when possible)



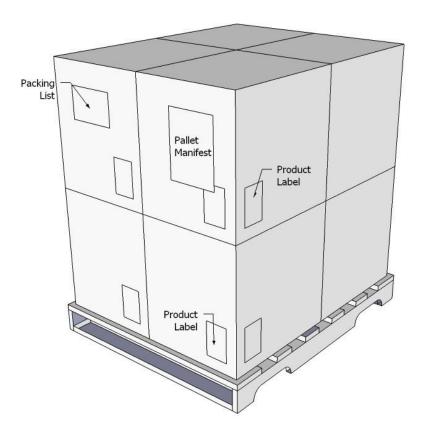
Pallet Manifest Overview

l	Com	npany Letter	head		
			Shipment	Date: 06/	06/11
	Pal	let Manifest			
Purchase Order Number	Part Number	Description	Total Quantity	Unit of Measure	Number of Cartons
4500123456	3AUA000000171	Main Circuit Board	100	EA	5
4500123456	3AUA0000000171	Main Circuit Board	100	EA	5
				Total	10

- Standard US Letter Size (8.5" x 11")
- On company letterhead
- Shipment Date MM/DD/YY
- "Pallet Manifest" Header
- ABB Purchase Order Number
- ABB Part Number
- Description of Part Number
- Total Quantity Shipped of Part Number on pallet
- Unit of Measure as requested by ABB
- Number of Cartons
 - Amount of cartons shipped for this specific line (No Mixing Part Numbers in same carton)
- "Total" Footer
 - Total number of Cartons for the entire pallet (should be the sum of above data)
- Bottom Right-Hand Corner to contain page identifier (1 of 3, 2 of 3, etc)
- Pallet Manifest to be sorted in Part Number Sequence (Low to High)



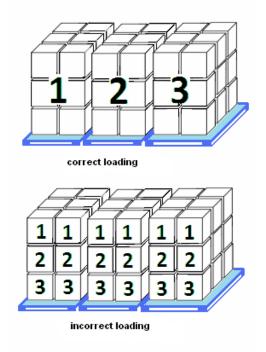
Pallet Manifest Placement



- Pallet Manifest must be on front and back facing of pallet, in the upper righthand corner (under stretch-wrap).
- Packing List must be placed be on front and back facing, in the upper left-hand corner (under stretch-wrap).

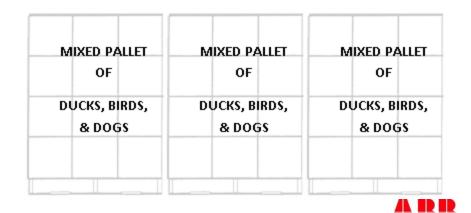


Multi-Part Pallet Configuration

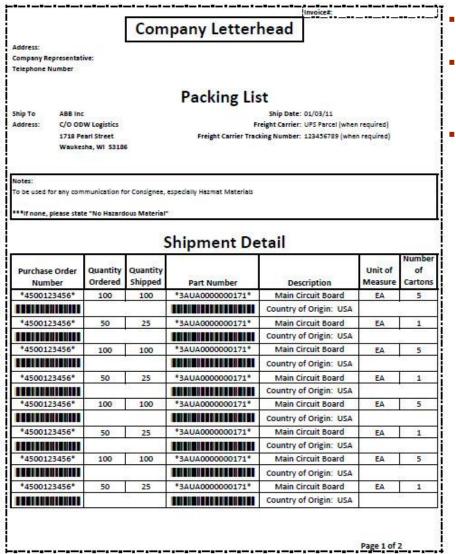


COMPLETE	COMPLETE	COMPLETE
PALLET OF	PALLET OF	PALLET OF
DUCKS	BIRDS	DOGS

- Product should be stacked vertically onto pallet
- Same part number shall not cross pallets unless carton quantity is more than single pallet.
- Multiple PO Numbers of the same part number shall not cross pallets unless carton quantity is more than single pallet



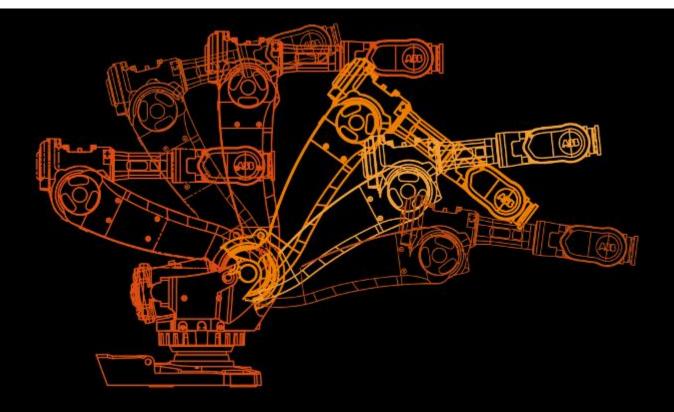
Packing List Overview



Standard US Letter Size (8.5" x 11")

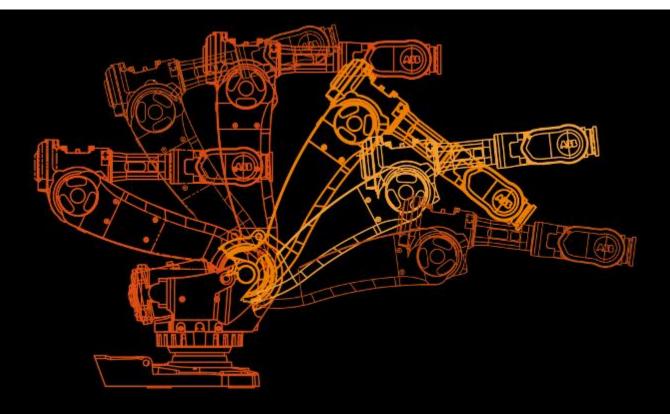
- Must be printed on White Paper Stock (barcodes must scan properly)
- Packing to be sorted by Purchase Order Number, then by Part Number (sequence low to high)





SCM WEBSITE





ACCOUNTS PAYABLE



PURCHASE ORDER / INVOICING PROCESS

PO is generated **Confirmation** received on all PO's (this is a must!)



Only one invoice per PDF or TIF file



Process

- If: Goods receipt is in system
- **AND**: Invoice and PO 'quantities and values' match, then the invoice is processed for payment
- **If:** There is a discrepancy; the Invoice is routed to the buyer for further instruction "**BASWARE**"

No payment can be processed without the buyer fixing the discrepancy.





Invoice Quality

- Send Invoice to the proper address
- Invoices must list Purchase Order number
- Only One Purchase Order per invoice
- Pricing must reflect price on PO
- UOM must match



- If ABB PO shows unit of measure in FEET invoice should be in FEET
- Part number and/or description matches PO, if possible reference the PO line item
- Freight should not be invoiced unless prior approval is received. Follow ABB shipping instructions listed on your PO
- No short pays, we must receive a new invoice in order to process the payment
- If you want to verify an invoice is in the system or when payment will be made, you can contact SAS AP via website <u>www.abb.us/supplierinquiries</u>



Payment Proposal Timeline

Day of Week	Check/ACH	Wires
Monday	Check/ACH Payment Proposal pulled and sent for approvals.	
Tuesday	Check and ACH approvals are due. Check and ACH payment sent to the bank	Wire Payment Proposal pulled and sent for approvals.
Wednesday	Checks issued and mailed by bank. ACH payments are released.	Wire approvals are due. Wires are entered.
Thursday	Special handling checks received at SAS and mailed.	Wire payments are released.
Daily		Manual wire requests as required.



Contacting Accounts Payable

External Suppliers/Vendors

Supplier Inquiry Portal

www.abb.us/supplieringuiries

Vendors can use this page to:

- Request invoice payment status
- Submit requests for address, remittance, or name changes
- Request the status of an expected payment (check, wire, and ACH payments)





Home About us Produ	cts & Services News Center Careers Investor Relations ABB Group	
ABB Inc. Sustainability	Where to find us	
About ABB U.S.	ABB Supplier/Vendor Inquiry Portal	
+ Our culture	CLICK HERE TO SUBMIT A NEW SUPPLIER/VENDOR INQUIRY FORM	
North American management	CLICK HERE TO CHECK THE STATUS OF A PREVIOUSLY SUBMITTED INQUIRY	
+ Events and tradeshows	CLICK HERE FOR INSTRUCTIONS ON USING THE SUPPLIER/VENDOR INQUIRY FORM	



How you can help to avoid delays in payments!

- Send the invoice to the correct bill-to address
 - sending it to the site/location/correspondence address will delay payment.
- Insure everything on the invoice matches the PO price, qty, uom, p/n, payment terms, etc.
- Do not re-send invoices to the bill-to address or email. This will create duplicate entries, which can delay payment of the initial invoice received and takes away valuable time from Accounts Payable. Instead, submit an inquiry first, if you are notified it is not in our system, then re-send.
- Always clearly state the ABB PO# on your invoice
- Be sure to include a phone number or email address where we can contact your Accounts Receivable if there are issues with the invoice.



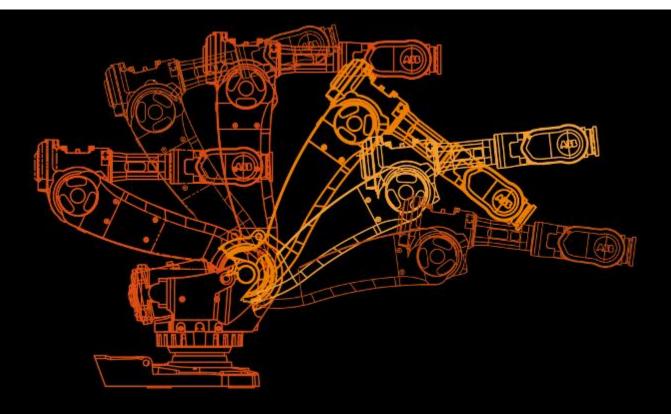
New Mandate

- The Bill To address must be on every invoice. (Even when emailing the invoice)
- Without this PO box address, AP does not know what business unit to apply the invoice to.

ABB Inc. PO Box 90364 Raleigh, NC 27675

Please notify your Accounts Receivable department of this mandate.





4Q INSTRUCTIONS



Breakout Session Teams

Г

Breakout Sessions	GROUP #	Conference Room	ABB Leader
Catalog - Long Lead-time Products	1	CAFÉ	Terrie Harris
Design and Build Retentions	2	CR 1220	Dana Manion
Drop Shipments	3	CR 1120	Dan Nagridge
Improve ABB and Supplier Communication	4	CAFÉ	David Grabowski
Invoicing and Payments	5	CR 1230	Tom Wilson
Machine and Fabrication Product Quality	6	CAFÉ	Ken Harris
Payment Terms	7	CR 1130	Tammara Terrell
Time Between Supplier Quote To PO	8	CR 1140	Jack Still
Upcoming Projects At ABB?	9	CR 1150	Erika Arms



4Q Process

4Q Process				
Q1 - Measure	Q2 - Analyze			
Define opportunity. Investigate to understand the current state in detail.	Identify and confirm <u>root</u> causes of the problem.			
Q4 - Sustain	Q3 - Improve			
Maintain the improvements by standardizing the work methods or processes.	Develop, pilot, and implement solutions that eliminate root causes.			

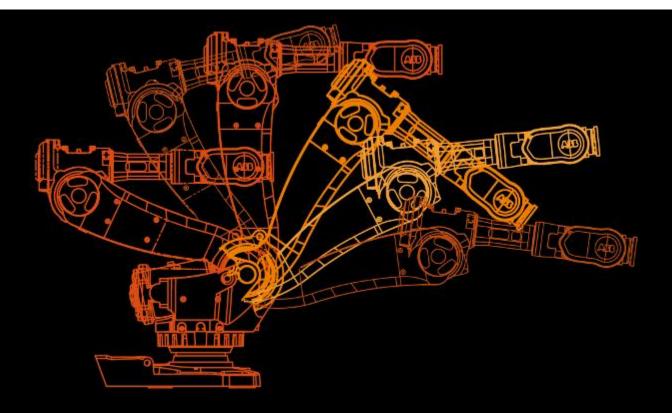


BREAK – 10 MINUTES 9:45 – 9:55

ALL – 4Q BREAKOUT SESSION 9:55 – 10:45

BREAK – 10 MINUTES 10:45 – 10:55

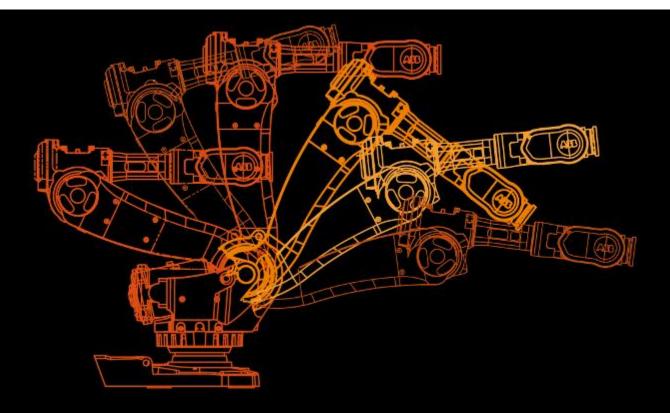




5 MINUTE TEAM

PRESENTATIONS





SUPPLIER OF THE YEAR AWARD



2012 SUPPLIER OF THE YEAR AWARD





Please don't let this valuable information stay at this meeting, take it back to your peers.

Thanks for coming! ABB Inc. SCM



Power and productivity

