

Accounts Payable I Case Study Introduction



Learning Objectives

At the end of this module, you will be able to:

- Use a case study to practice applying concepts
- Apply lean thinking and analysis tools to an office process
- Sketch a future state value stream map
- Recall the impact that variability has on process performance



Rockwell Collins Background

- Leading provider of commercial and military avionics systems and information technology
- Founded in 1933 as Collins Radio Company
 - Acquired by Rockwell International in 1973
 - Spun-off in 2001 as an independent, publicly traded company
- Today, more than 20,000 employees at over 60 locations in 27 countries
- 1998 "Lean Electronics" launched by CEO Clay Jones as RC's operating philosophy



974 Intal Tree

Building trust every day

Courtesy of Rockwell Collins. Used with permission. Accounts Payable I – v7.5 - Slide 3 © 2012 Massachusetts Institute of Technology



Rockwell Financial Performance



Notes (1) Additional factors beyond Lean Electronics contribute to Rockwell Collins superior sector performance

(2) Financial performance for firms can include non-aerospace business units



Accounts Payable Overview





- Switched to invoice-less "Pay From Receipt" or PFR system in 1993
- Implemented in SAP corporate data base system in 1999
 - Purchasing Department issues Purchase Order (PO) into SAP
 - Receiving Department enters data into SAP upon receipt of shipment
 - Vendor payment triggered when PO and receipt reconciled
 - Vendor charges shipping to RC account
 - RC pays taxes
 - No invoice needed from vendor
- About 80% of transactions currently on PFR
- Processing the remaining invoices is a problem



Quarterly AP Metric Summary

	1st Q	2nd Q	3rd Q	4th Q
Non PFR Invoice Volume (nearest 100)	13,700	14,500	15,200	15,600
Average Cycle Time (weeks)	5.8	6.1	6.3	6.4
Percent Past Due	8%	10%	11%	12%

Increasing Volume

Lengthening Cycle Time

Growing Number of Past Due Payments to Suppliers



Process Improvement Flow

- AP has developed a VSM for their process
 - It is in your folders
- Value stream analysis (VSA) needs to be done to prepare for an upcoming AP Rapid Process Improvement (RPI) event
 - You will do this tonight and discuss tomorrow.
- RPI event will identify improvement strategies and develop a future state VSM
 - We will do this in class tomorrow
- An implementation plan for the new VSM will be worked out during Lean Implementation module



Rapid Process Improvement Workshop (RPIW)

- Focused on a specific improvement opportunity
- Chartered by a sponsor who gives improvement goals and organizational constraints, and provides resources
- Lean coaches & facilitators provided
- Event is up to a week in duration
- One to three months preplanning
- Involves all important stakeholders
- Data driven process
- Ends with implementation plan
- Implemented outcomes measured





JHC AMI RPIW - Apr 2009

Doing in 1 week what otherwise takes months or years



Homework

- Read the case study in your folder
- Verify that the provided Value Stream Map accurately reflects the data in the case study
- Work out the answers to Questions 1-4
- Come to class prepared to discuss the case study and perform further analysis.

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