

Table of Contents

1	What is Microsoft Dynamics AX?	1
1.1	Axapta and the History of Dynamics AX	1
1.2	Dynamics AX 2012 Product Overview	2
1.2.1	Functional Capabilities	2
1.2.2	Business Intelligence	3
1.2.3	Collaboration Features	4
1.2.4	Implementation	4
1.3	Technology and System Architecture	4
1.3.1	Development Environments	5
1.3.2	Layer Technology	6
1.3.3	Three-Tier Architecture	7
1.3.4	Data Structure	7
1.3.5	Voucher Principle	8
2	Getting Started: Navigation and General Options	9
2.1	User Interface and Common Tasks	9
2.1.1	Logon and Authentication	9
2.1.2	User Interface	10
2.1.3	Navigation	18
2.1.4	Home Menu	22
2.1.5	Working with Records	24
2.1.6	Filter, Find and Sort	31
2.1.7	Help System	37
2.1.8	Case Study Exercises	39
2.2	Printing and Reporting	40
2.2.1	Printing Reports	40
2.2.2	Copy/Paste and Microsoft Office Add-Ins	45
2.2.3	Case Study Exercise	47
2.3	Advanced Options	47
2.3.1	User Options and Personalization	48
2.3.2	Record Information and Templates	50
2.3.3	Case Study Exercises	54

2.4	Global Address Book	55
2.4.1	Parties and Addresses	55
2.4.2	Address books	56
2.4.3	Case Study Exercise	58
3	Purchasing	59
3.1	Business Processes in Purchasing	59
3.1.1	Basic Approach.....	59
3.1.2	At a Glance: Purchase Order Processing	62
3.2	Vendor Management	64
3.2.1	Vendor Records.....	64
3.2.2	Payment Terms and Cash Discount	69
3.2.3	Ledger Integration	71
3.2.4	Case Study Exercises	73
3.3	Product Management for Purchasing.....	73
3.3.1	Procurement Category Management	74
3.3.2	Product Master Data for Purchasing	76
3.3.3	Purchase Price and Discount	80
3.3.4	Case Study Exercises	84
3.4	Purchase Orders	85
3.4.1	Basics of Purchase Order Processing.....	85
3.4.2	Planned Purchase Orders.....	87
3.4.3	Purchase Requisitions	90
3.4.4	Requests for Quotation.....	92
3.4.5	Purchase Order Registration	94
3.4.6	Change Management and Purchase Order Approval	101
3.4.7	Canceling and Deleting Purchase Orders.....	103
3.4.8	Purchase Order Confirmation and Printing.....	104
3.4.9	Purchase Agreements.....	107
3.4.10	Case Study Exercises	108
3.5	Item Receipt	109
3.5.1	Basic Steps for Item Receipt.....	109
3.5.2	Receipts List.....	110
3.5.3	Inventory Registration.....	110
3.5.4	Product Receipt	113
3.5.5	Receiving a Deviating Quantity	116
3.5.6	Order Status and Inquiries.....	118
3.5.7	Case Study Exercises	121

3.6	Invoice Receipt	122
3.6.1	Different Ways for Processing Vendor Invoices.....	122
3.6.2	Posting Vendor Invoices	124
3.6.3	Order Status and Inquiries	128
3.6.4	Case Study Exercises	130
3.7	Credit Notes and Item Returns	131
3.7.1	Crediting Purchase Orders.....	132
3.7.2	Inventory Valuation for Separate Credit Notes.....	134
3.7.3	Case Study Exercise.....	134
4	Sales and Distribution.....	135
4.1	Business Processes in Sales and Distribution.....	135
4.1.1	Basic Approach	135
4.1.2	At a Glance: Sales Order Processing	138
4.2	Customer Management.....	140
4.2.1	Basic Data and Comparison to Vendors Records.....	140
4.2.2	Case Study Exercises	144
4.3	Product Management for Sales	144
4.3.1	Product Records and Categories in Sales	144
4.3.2	Sales Price and Discount.....	146
4.3.3	Case Study Exercises	151
4.4	Sales Orders and Quotations.....	151
4.4.1	Basics of Sales Order Processing.....	152
4.4.2	Sales Quotations.....	153
4.4.3	Sales Order Registration	155
4.4.4	Sales Prices and Discounts.....	160
4.4.5	Managing Charges.....	162
4.4.6	Sales Order Confirmation.....	165
4.4.7	Case Study Exercises	165
4.5	Distribution.....	166
4.5.1	Basics and Setup for Picking and Shipping.....	166
4.5.2	Pick Form and Picking List.....	169
4.5.3	Output Order and Shipment	171
4.5.4	Packing Slip	173
4.5.5	Case Study Exercises	174
4.6	Invoicing.....	175
4.6.1	Invoicing Sales Orders	175
4.6.2	Collective Invoice.....	177
4.6.3	Free Text Invoices	180

4.6.4	Credit Notes and Item Returns	181
4.6.5	Case Study Exercises	185
4.7	Direct Delivery.....	186
4.7.1	Processing Direct Deliveries.....	186
4.7.2	Case Study Exercise	188
5	Production Control.....	189
5.1	Business Processes in Manufacturing.....	189
5.1.1	Basic Approach.....	189
5.1.2	At a Glance: Production Order Processing.....	192
5.2	Product Data and Bills of Materials	194
5.2.1	Product Master Data for Manufacturing	194
5.2.2	Bills of Materials (BOM).....	196
5.2.3	Case Study Exercises	201
5.3	Resources and Routes.....	203
5.3.1	Production Units and Resource Groups	203
5.3.2	Resources and Capabilities.....	206
5.3.3	Routes and Operations.....	209
5.3.4	Case Study Exercises	216
5.4	Production Orders.....	218
5.4.1	Basics of Production Order Processing	218
5.4.2	Production Order Registration.....	222
5.4.3	Processing Production Orders.....	224
5.4.4	Case Study Exercises	228
5.5	Production Journal Transactions.....	228
5.5.1	Journal Transactions and Ledger Integration	228
5.5.2	Picking List.....	229
5.5.3	Working Time Registration	231
5.5.4	Case Study Exercises	232
5.6	Reporting as Finished and Ending Production.....	232
5.6.1	Reporting as Finished.....	232
5.6.2	Ending and Costing	234
5.6.3	Case Study Exercise	236
5.7	Subcontracting.....	236
5.7.1	Outsourced Operation.....	236
5.7.2	Purchased Service	237

6	Operations Planning	239
6.1	Business Processes in Operations Planning	239
6.1.1	Basic Approach	239
6.1.2	At a Glance: Master Planning.....	240
6.2	Forecasting	241
6.2.1	Basics of Forecasting.....	241
6.2.2	Forecast Settings.....	242
6.2.3	Forecasts and Forecast Scheduling.....	244
6.2.4	Case Study Exercises	246
6.3	Master Planning	247
6.3.1	Basics of Master Planning.....	247
6.3.2	Master Planning Setup	249
6.3.3	Item Coverage and Item Settings.....	251
6.3.4	Master Scheduling and Planned Orders.....	255
6.3.5	Case Study Exercises	259
7	Inventory Management	261
7.1	Principles of Inventory Transactions.....	261
7.1.1	Basic Approach	261
7.1.2	At a Glance: Inventory Journal Transactions	264
7.2	Product Information Management	266
7.2.1	Product Master Data	266
7.2.2	Inventory Dimension Groups	274
7.2.3	Item Model Groups	277
7.2.4	Cost Price Settings	279
7.2.5	Transaction and Inventory Inquiry	280
7.2.6	Case Study Exercises	285
7.3	Inventory Valuation.....	286
7.3.1	Valuation Method	287
7.3.2	Inventory Closing and Adjustment.....	290
7.3.3	Case Study Exercises	292
7.4	Business Processes in Inventory	292
7.4.1	Inventory Structures and Parameters	293
7.4.2	Journal Transactions.....	295
7.4.3	Inventory Counting.....	298
7.4.4	Quarantine and Inventory Blocking.....	300
7.4.5	Transfer Orders	302
7.4.6	Case Study Exercises	303

8	Finance Administration	305
8.1	Principles of Ledger Transactions	305
8.1.1	Basic Approach	305
8.1.2	At a glance: Ledger Journal Transactions	306
8.2	Setting up Finance	307
8.2.1	Fiscal and Ledger Calendars	307
8.2.2	Currencies and Exchange Rates	309
8.2.3	Financial Dimensions	312
8.2.4	Account Structures and Charts of Accounts	314
8.2.5	Customer, Vendor and Bank Accounts	321
8.2.6	VAT / Sales Tax Settings	322
8.2.7	Case Study Exercises	325
8.3	Business Processes in Finance	326
8.3.1	Basics Setup for Journal Transactions	326
8.3.2	General Journals	328
8.3.3	Invoice Journals	333
8.3.4	Payments	337
8.3.5	Reversing Transactions	341
8.3.6	Case Study Exercises	342
8.4	Ledger Integration	343
8.4.1	Basics of Ledger Integration	344
8.4.2	Ledger Integration in Inventory	345
8.4.3	Ledger Integration in Production	349
9	Core Setup and Essential Features	351
9.1	Organizational Structures	351
9.1.1	Data Partitions	352
9.1.2	Organization Model Architecture	353
9.1.3	Organization Units	353
9.1.4	Organization Hierarchy Structures	356
9.1.5	Legal Entities (Company Accounts)	357
9.1.6	Virtual Company Accounts	359
9.1.7	Sites	360
9.2	Security and Information Access	362
9.2.1	Access Control	362
9.2.2	User Management	362
9.2.3	Role-based Security	366
9.2.4	Securing the Global Address Book	370

Table of Contents

XIII

9.3

General Settings

371

9.3.1

Number Sequences.....

372

9.3.2

Calendars

374

9.3.3

Address Setup

374

9.3.4

Parameters

375

9.4

Alerts and Workflow Management.....

376

9.4.1

Alert Rules and Notifications.....

376

9.4.2

Configuring Workflows.....

378

9.4.3

Working with Workflows.....

381

9.5

Other Features

383

9.5.1

Document Management

383

9.5.2

Case Management

385

9.5.3

Task Recorder.....

388

Appendix.....

389

Setup Checklist.....

389

Commands and Shortcut Keys.....

394

Bibliography

395

Index

397