



Key Data

Course #: 8338A

Number of Days: 2.0

Format: Instructor-Led

Certification Exams: None

Certification Track: None

This course syllabus should be used to determine whether the course is appropriate for the students, based on their current skills and technical training needs.

Course content, prices, and availability are subject to change without notice.

Course Syllabus

Axapta Production Series II

Elements of this syllabus are subject to change.

Introduction

This 2-day course covers the advanced concepts in the Microsoft® Business Solutions—Axapta® Production module.

This course continues the training on the Axapta Production module introduced in Axapta Production Series I. This course follows up on the Production Series I course with additional details on some topics as well as information about some new topics of the Axapta Production module. The course uses instructor lead discussion, course material review, and exercises to help the user learn the extended use of the Production module.

Audience

This course is intended for professionals that need to know how to use, sell, and implement the Production module in Microsoft Axapta. A solid background in manufacturing and production environments will be most helpful. Those taking this class should have a fair understanding of the Trade and Logistics functionality of Microsoft Axapta.

After completing this course, students will understand:

- The use of Inventory Dimensions in the production environment.
- How to introduce the use of subcontractors to the Microsoft Axapta Production module.
- Some of the advanced uses of Production Scheduling in Microsoft Axapta.
- How to account for scrap and waste in production orders.
- The general ledger transactions that are posted as production orders are processed.
- Various types of manufacturing environments and strategies for implementing Microsoft Axapta in those environments.

Prerequisites

Before attending this course, students must have completed:

- Production Series I course

In addition, it is recommended, but not required, that students have completed:

- Production Series I and II eCourse
- As well as having a fair understanding of the Trade and Logistics functionality of Microsoft Axapta

Student Materials

The student kit includes a comprehensive workbook and other necessary materials for this class.

Chapter 1: Production Series I Review

This chapter reviews the concepts introduced in the Production Series I course. The review will quickly cover Bill of Material, Work Centers, Routes and Operations, and Production Orders.

For a referral to a Microsoft Certified Technical Education Center in your area, see the Microsoft Training and Certification Web site at <http://www.microsoft.com/traincert>. Call your local Microsoft Certified Technical Education Center for more information and to register for classes.

Main Topics
<ul style="list-style-type: none">▪ Bill of Material▪ Work Centers▪ Routes and Operations▪ Production Orders▪ Job and Operation Scheduling

After completing this chapter, students will have refreshed their knowledge of:

- Bill of Material
- Work Centers and Work Center Groups
- Routes, Route Networks, and Operations
- Production Orders and Scheduling

Chapter 2: Inventory Dimensions

In this chapter, you will review with students the use of inventory dimensions in the production module of Microsoft Axapta. You will also look at how to set up dimension groups, batch and serial numbers, reservations, marking, and tracing.

Lessons
<ul style="list-style-type: none">▪ Inventory Dimensions▪ Allocating Batch and Serial Numbers▪ Reservation▪ Marking▪ Tracing
Exercises:
<ul style="list-style-type: none">▪ Reservations using Batch number as primary dimension▪ Tracing

After completing this module, students will be able to:

- Present and explain to students how to use inventory dimensions.
- Explain the importance of inventory control in relation to production.
- Provide students with an understanding of how to mark an inventory dimension and specify inventory locations, batch, and serial numbers in production orders.
- Provide students with an understanding of how to use the tracing feature.
- Explain how to assign serial and/or batch numbers automatically and manually.
- Explain how to set up and configure production reservation.
- Explain how to create and use marking in a production order.
- Explain to students how to use the Inventory trace function.

Chapter 3: Subcontractor Work

In Microsoft Axapta there are three types of subcontractor work: Purchase, Operations, and Production. This chapter will center on subcontractor work within Microsoft Axapta and how it relates to BOM lines, Purchase orders, Productions, and Operations.

Lessons

<ul style="list-style-type: none">▪ BOM Line Types▪ Purchase Orders▪ Productions▪ Operations
Exercises:
<ul style="list-style-type: none">▪ Use a subcontractor to purchase an item for the Bill of Material▪ Work center groups containing work centers▪ Use a subcontractor to produce an item in the Bill of Materials

After completing this module, students will be able to:

- Demonstrate the significance of tracking subcontractor work in completing the production of items.
- Illustrate how Microsoft Axapta supports the utilization of subcontractors rather than producing all subcomponents.
- Review the setup of subcontractors to be used in the BOM, purchase orders, productions, and operations.
- Review the setup of operations and routes to be performed by a vendor as well as the creation of work centers and groups for the vendor type.

Chapter 4: Advanced Production Scheduling

In Advanced Production Scheduling, the topics of property and task group setup, routing groups, and split production orders will be reviewed and discussed.

Lessons
<ul style="list-style-type: none">▪ Property Planning and Setup▪ Task Groups Planning and Setup▪ Routing Groups▪ Priority Scheduling and Split Production
Exercises:
<ul style="list-style-type: none">▪ Setup work center▪ Create a new route▪ Estimate production orders▪ Create a job schedule for a production order▪ Create tasks groups

After completing this module, students will be able to:

- Explain the process to set up a property and attach to a work center.
- Provide the students with an understanding of the benefits of properties, the various scheduling methods, and the difference between operations and job scheduling.
- Review the process to set up Task Groups, create routing groups, and attach routing groups to the operations in a route.
- Explain how to assign priorities to Production Orders in order to control scheduling and how to split a Production Order.

Chapter 5: Scrap and Waste

Scrap is one of a company's expenses that can be managed and calculated by using Microsoft Axapta. This chapter will review the steps to set up the scrap percentage for processes, operations, and work.

Lessons
<ul style="list-style-type: none"> ▪ BOM and Work Center Scrap ▪ Route Scrap ▪ Costing of Scrap and Waste Scrap and Waste in the Production Series
Exercises:
<ul style="list-style-type: none"> ▪ Set up scrap percentage for a BOM ▪ Set up scrap percentages for a work center ▪ Set up scrap percentages for a route

After completing this module, students will be able to:

- Learn how to set the BOM scrap percentages.
- Review with students the setup of work center scrap percentages.
- Explain the procedure to set up the scrap percentage per operation in production routes.
- Learn how to accumulate scrap percentages in a production route.

Chapter 6: General Ledger in the Production Series

This chapter focuses on the interaction between the production module and the general ledger in Microsoft Axapta. Subjects to review with students include ledger settings and the accounts used for transactions posing, how costing is calculated for consumption, and the journals involved in the production module of Microsoft Axapta.

Lessons
<ul style="list-style-type: none"> ▪ Ledger Settings ▪ Ledger Accounts ▪ Costing ▪ Journals
Exercises:
<ul style="list-style-type: none"> ▪ Assign ledger settings for production orders ▪ Cost a production order as a final job ▪ Journals for production orders

After completing this module, students will be able to:

- Learn how to configure production order ledger settings and available options.
- Discuss how the ledger setting is assigned to a production order.
- Set up posting profiles in production.
- Explain how production transactions are reflected in the ledger accounts.
- Explain the inventory and financial transactions in the production Ledger posting.
- Explain how costs are calculated.
- See the changes to the ledger and be able to distinguish between consumption of items and the consumption of operations.
- Use the production journals and create new Journals.

Chapter 7: Manufacturing Strategies

This chapter reviews different manufacturing strategies and discusses how these strategies are accomplished and supported within Microsoft Axapta.

Lessons
<ul style="list-style-type: none"> ▪ Configure to Order ▪ Production to Order ▪ Assemble to Order ▪ Make to Stock
Exercises:
<ul style="list-style-type: none"> ▪ A six question exercise design to review the different manufacturing strategies that Microsoft Axapta

After completing this module, students will be able to:

- Understand and explain the Manufacturing strategies supported by Microsoft Axapta. These include the Configure to order, Production to order, Assemble to order, and Make to stock approaches.

Chapter 8: Implementing the Production Series

This final chapter will cover at a high level some of the tasks to consider when implementing the production series at a customer site.

Lessons
<ul style="list-style-type: none"> ▪ Adjust Global Types ▪ Item and BOM table ▪ Work Center ▪ Routes and Operations ▪ Implementing the Production Checklist
Exercises:
<ul style="list-style-type: none"> ▪ Mandatory groups assigned for each item ▪ Things to consider when establishing mandatory groups ▪ Work center types in Microsoft Axapta ▪ Use the AOT to view route version data

After completing this module, students will be able to:

- Configure Global types used by the productions series.
- Explain the details to consider in setting up item groups and items.
- Discuss the details to consider in setting up BOMs.
- Demonstrate an understanding of the options to consider when setting up work centers, routes, and operations.
- Identify the sequence numbers used by production – how and where they are set up, and which ones to use.
- Identify different production parameters, and create a checklist for implementation.

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