



Key Data

Course #: 8337A

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 I

Elements of this syllabus are subject to change.

Introduction

This 2-day course includes training on how the Microsoft® Business Solutions – Axapta® Production Series works for your business. This includes training on setting up of Work Centers, Operations, Routes, Scheduling, and Costing. Training is also offered on the different options Microsoft Business Solutions – Axapta offers for Reporting and Inquiries. All material and examples used in the Production Series I course is based on Microsoft Axapta 3.0.

Audience

This course is intended for professionals involved with implementing Microsoft Business Solutions Axapta in the Production area, or anyone who wants to pursue certification in Production. This audience typically includes application consultants who are tasked with assessing a customer's business needs and advising them on the use, configuration, and customization of the application. Additionally, consultants who are responsible for training or supporting the customer benefit from the course.

At Course Completion

After completing this course, students should understand:

- How to set up Work Centers and Routes and Operations.
- The Production Order concept and cycle and states.
- How to perform scheduling of Production Orders.
- How to perform Costing of Production Orders.
- Which options you have for changing your setup using the different parameters.
- Which reporting and Inquiries options you have.

Prerequisites

Before attending this course, students must have:

- Axapta Introduction and Working with BOM's is recommended

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

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

Chapter 1: Introduction to Production

The first chapter is intended to be an overview and introduces some of the basic production concepts used in Microsoft Axapta. Bill of Materials, Work Centers, Routes, and Production Orders are defined along with an overview of their use in the Microsoft Axapta Production Series.

Lessons

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.

- Bill of Materials
- Work Centers
- Routes
- Production Orders

After completing this chapter, students should know the basic functionality and use of:

- Bill of Materials
- Work Centers
- Routes
- Production Orders

Chapter 2: Bill of Materials

In this chapter you learn the advanced features available in the Microsoft Axapta Bill of Materials.

| Lessons |
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| <ul style="list-style-type: none">▪ Bill of Materials▪ Configurable BOMs▪ BOM Scrap▪ BOM Measurements▪ BOM Reports |
| Exercises |
| <ul style="list-style-type: none">▪ Bill of Material, Line Types▪ BOM Calculation▪ Create a configurable BOM▪ BOM Scrap |

After completing this module, students should be able to:

- Create Bill of Materials
- Perform Production related setup of BOMs
- Calculate BOMs
- Use configurable BOMs, including setup of configuration routes and configuration rules
- Create and use BOM scrap types
- Create and use measurements
- Round up consumption
- Locate and create desired reports

Chapter 3: Work Centers

In this chapter you learn how to set up and configure work centers as well as how subcontractor work is performed in the Microsoft Axapta Production module.

| Lessons |
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- Creation and Configuration of Work Center Groups and Work Centers
- Setup Working Time Templates and Calendars
- Using Work Center Group and Work Center Operation Scheduling Percentage and Efficiency Percentage
- Set up Work Center Costing
- Work Center Inquiries, Reports, and Gantt Charts
- Subcontractor Work

Exercises

- Create a Working Time Template
- Create a Calendar
- Create Work Center Groups and Work Centers
- Scheduling Percentages and Exclusivity
- Finite Capacity and Capacity Planning

After completing this module, students should be able to:

- Create and configure Work Center Groups and Work Centers
- Create Working Time Templates and Calendars
- Set up Operation Scheduling Percentage and Efficiency Percentage for Work Center Groups and Work Centers
- Know when and how to use Exclusivity
- Set up Costing for Work Center Groups and Work Centers
- Configure Work Center Groups and Work Centers for Finite Capacity and set Capacity Planning options
- Access the Work Center Inquiries, Reports, and Gantt Charts
- Utilize the options available for using subcontractors in the Production Series

Chapter 4: Routes and Operations

In this chapter we learn how to set up and configure operations and routes as well as some advanced concepts such as Route Network, Scrap, and Costing.

| Lessons |
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| <ul style="list-style-type: none">▪ Operations▪ Routes▪ Routing Groups▪ Advanced Routes▪ Scrap▪ Cost Categories▪ Calculating Expected And Actual Route Costs▪ Attachment Type▪ Route Network |
| Exercises |
| <ul style="list-style-type: none">▪ Create an Operation and Operation Relation▪ Create a Simple Route▪ Setup a Network Route and Simultaneous Operations▪ Modify an Existing Route |

After completing this module, students should be able to:

- Set up and Configure Production Operations
- Define Operation Relations
- Create and Maintain Routes and Routing Groups
- Manage scrap in production routes
- Manage cost categories in production routes
- Manage routes using route networks
- Configure and use attachment types in routes
- Configure the Route Network parameter
- Configure the use of Route Networks for complex routing

Chapter 5: Production Orders

In this chapter you about the Production Order Status, how to create, estimate, and schedule production orders using both Job scheduling and Operations Scheduling. You also learn about Capacity Planning and Gantt Charts.

| Lessons |
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| <ul style="list-style-type: none">▪ Production Status▪ Creating Production Orders▪ Production Parameters▪ Estimations And Transactions▪ Production Scheduling▪ Capacity Planning▪ Production Gantt Charts▪ Dispatching |
| Exercises |
| <ul style="list-style-type: none">▪ Manually Create a Production Order▪ Sales Activity▪ Production Scheduling▪ Purchase Activities |

After completing this module, students should be able to:

- Explain the Production Order Status
- Create Production Orders
- Set Production Order Parameters
- Estimate Production Orders
- Know how Microsoft Axapta calculates the cost and price for a produced item
- Use Explosion to show requirements for a Production Order
- Explain the difference between operations and job scheduling with regard to capacity reservations
- Work with Gantt charts
- Know how capacity is reserved for work centers in production scheduling
- Explain additional scheduling concepts such as; Work Center efficiency, Finite Material, and schedule references
- Reschedule production orders from the Gant Chart
- Change production order priority in dispatching

Chapter 6: Production and Costing

This chapter explains how to group Production Orders by using Production Groups and Production Pools and covers the physical implementation of the production order cycle up through the financial costing.

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| Lessons |
| <ul style="list-style-type: none">▪ Production Groups and Production Pools▪ Production Status▪ Releasing and Starting Production Orders▪ Production Consumption▪ Production Costing |
| Exercises |
| <ul style="list-style-type: none">▪ Create and Configure a Production Group▪ Configure and Use a Production Pool▪ Production Activities▪ Delivery and Invoicing |

After completing this module, students should be able to:

- Create, Configure, and Use Production Groups and Production Pools
- Check the Status of Production Order and explain the Status options
- Release and Start Production Orders
- Utilize Production Journals
- Register Item and Work Center Consumption
- Report as Finished Production Orders
- Change the Status of a Production to a previous Status
- Set up and Complete Costing

Chapter 7: Inquiries and Reports

In this chapter you get a first-hand look at the inquiries and reports that available in the Production series. You are shown how to locate and use these tools in addition to selection, sorting, querying, and printing techniques.

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| Lessons |
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| <ul style="list-style-type: none">▪ Production Inquiries▪ Production Reports |
| Exercises |
| <ul style="list-style-type: none">▪ Production Inquiry (Operation List)▪ Production Reporting (Operation Use) |

After completing this module, students should be able to:

- Determine where to locate the specific inquiries
- Use the inquiries to quickly examine production data
- Provide answers to frequently requested production related questions
- Find the location to create the desired Reports

Chapter 8: Case Study

This Case Study is the final chapter in Production Series 1. The Case Study challenges the student to use the knowledge gained throughout this course to help Monster Bikes Inc., deliver their first new Road Racer. In performing this task, the student receives the opportunity to practice the skills they have acquired.

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| Lessons |
| <ul style="list-style-type: none">▪ Case Study |
| Exercises |
| <ul style="list-style-type: none">▪ Research and Development▪ Sales Activities▪ Production Planning▪ Purchasing Activities▪ Production Activity Control▪ Delivery and Invoicing |

After completing this module, students should be able to:

- Work through all phases of the Case Study
- Complete the Research and Development phase
- Complete the Sales Activities phase
- Complete the Production Planning phase
- Complete the Purchasing Activities phase
- Complete the Production Activity Control phase
- Complete the Delivery and Invoicing phase