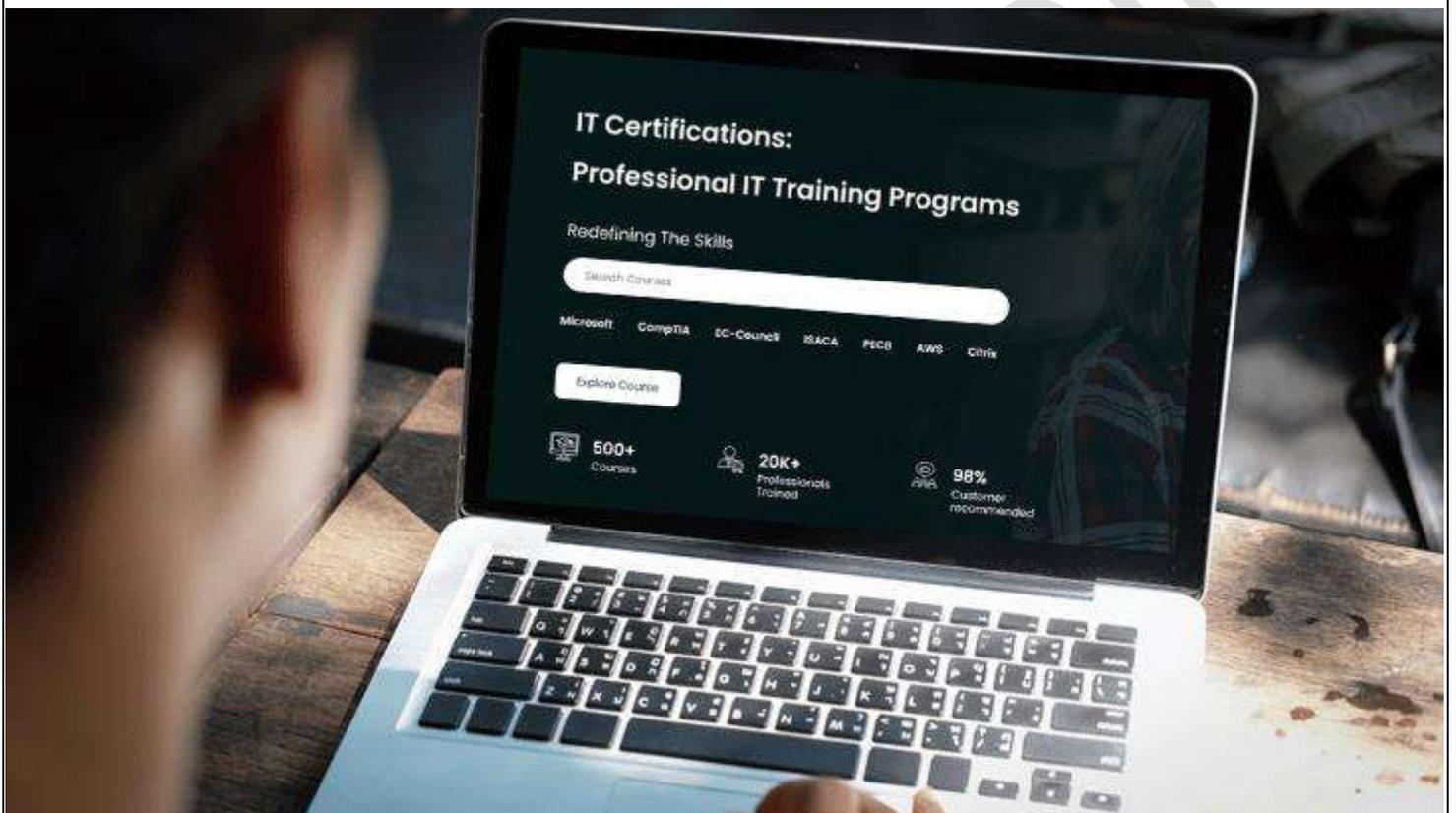IT Certifications:
Professional IT Training Programs

MB-335T00: MICROSOFT DYNAMICS 365 SUPPLY CHAIN MANAGEMENT EXPERT TRAINING

Duration: 5 Days

Course Description

Building your application expertise for Dynamics 365 Supply Chain Management is the goal of this course. In this course, you'll learn how to create, configure, and manage your product and inventory, as well as the most important features and functions required by a functional consultant for Dynamics 365 Supply Chain Management.

Configuring and processing supply chain management. the warehouse management features and the features for managing transportation. Features for asset management. processing and setup of master planning. sales and purchasing procedures.

Lectures and a number of practical exercises are included in this course. A Dynamics 365 Supply Chain Management Functional Consultant, Expert case study will be used to introduce the exercises to you.

Each exercise will be based on a business scenario, followed by a question or discussion, and finally, detailed instructions on how to carry out system-related tasks.

Training Exclusives

- Live instructor-led interactive sessions with Microsoft Certified Trainers (MCT).
- Access to Microsoft Official Courseware (MOC).
- Real-time Virtual Lab Environment.
- Experience 24*7 Learner Support.
- Self-paced learning and flexible schedules.

Who should attend this course?

- Dynamics 365 Supply Chain Management Functional Consultant Expert

What you will learn

- Create products as type Item and Service
- Set up product unit conversions
- Set up transfer orders
- Set up default order settings
- Create product masters with predefined variants
- Create and set up category hierarchies
- Create product attributes
- How to create a bill of materials and BOM versions by using the BOM designer in Supply Chain Management
- Discrete manufacturing concepts
- Production order statuses
- Production stages
- Bill of materials (BOM)
- Resources
- Routes and operations
- Configure commodity pricing in Supply Chain Management
- Configure product compliance in Supply Chain Management
- Configure process manufacturing
- Create and configure catch-weight items
- Configure approved vendors

- Understand the features of engineering change management
- Learn how the end-to-end engineering change management process works
- Set up engineering organizations
- Work with product versioning
- Create dimension groups by using the version dimensions
- Create product life cycle states
- Use engineering categories
- Set up engineering change severities and severity rules
- Set up product owners
- Use a workflow with engineering change management
- Create an engineering change request
- Learn about business impacts
- Create an engineering change order
- Important terminology to help you understand the concepts and processes that are associated with product configuration
- Product configuration end-to-end scenario
- Different areas that span the product configuration process
- The product configuration model
- How to build a product configuration model
- Configure the costing sheet
- Perform BOM calculation and analyze costs by using the costing sheet
- Manage formulas
- Create co-products and by-products
- Discrete, lean, and process manufacturing methodologies
- Unified manufacturing
- How to configure production control for unified manufacturing
- Capacity planning
- Integration between the General ledger and the Production control modules
- Production pools
- How to work with allocation keys
- IoT intelligence and insights in Supply Chain Management
- Production input and output locations
- Staging and order picking
- Releasing BOM and formula lines to the warehouse
- Cross-docking
- Visibility into material exceptions
- Learn about the manufacturing execution process
- Identify the roles in manufacturing execution
- Process production orders
- Discover the process workflows to manage a production
- Review the benefits of Asset Management
- Define the key terms and concepts in Asset Management
- Learn how to install, and work with the Asset Management mobile workspace
- Review Asset Management integration capabilities
- Create worker calendars and scheduling
- Identify and assign preferred maintenance workers
- Schedule and dispatch work orders, including scheduling for a specific date and time
- Review the scheduled work order maintenance jobs to assign resources to maintenance jobs
- Learn how to calculate a capacity load on scheduled work orders by defined periods
- Apply the procurement and sourcing processes in a business scenario
- Use purchasing policies

- Create and maintain vendors
- Create and process purchase requisitions
- Create and process a request for a quotation
- Configure activity-based subcontracting
- Designate vendors as subcontractors
- Configure production flow costing
- Maintain trade agreements
- Configure smart rounding
- Create sales agreements
- Use procurement policies
- Create purchase agreements
- Configure trade allowance
- Configure brokerage
- Configure royalties
- Configure rebates
- Learn about the Rebate management module
- Work with capacity planning
- Schedule a production order
- Split a production order
- Set up scrap and waste
- Set up and configure master planning
- Use the Supply schedule page
- Set up demand and supply forecasts
- Configure calculated delays
- Configure intercompany master planning
- Run plans and firm-planned orders
- Review the architecture of the Planning Optimization Add-in
- Identify the benefits of using Planning Optimization
- Discover the performance improvements within Planning Optimization
- Learn about priority-based planning
- Kanban rules
- Manufacturing kanbans
- Withdrawal kanbans
- Fixed quantity kanbans
- Kanban quantity calculations and circulating kanbans
- Batch attributes
- Batch balancing process
- Potency management

What Exam Do I Need To Get Certified?

- MB-335: Microsoft Dynamics 365 Supply Chain Management Functional Consultant Expert

Curriculum

Module 1: Create products and product masters in Dynamics 365 Supply Chain Management

Product information is the pillar of supply chain and retail applications across all industries. In the various modules of a business solution, product-specific information and setup are required to manage the business processes that are related to specific products, product families, or product categories.

- Create products as type Item and Service.
- Set up product unit conversions.
- Set up transfer orders
- Set up default order settings.
- Create product masters with predefined variants.
- Create and set up category hierarchies.
- Create product attributes.

Module 2: Create bill of materials in Dynamics 365 Supply Chain Management

A bill of materials (BOM) defines the components that are required to produce a product. The components can be raw materials, semi-finished products, or ingredients. In some cases, services can be referenced in a BOM. However, BOMs typically describe the material resources that are required. When combined with a route or production flow that describes the operations and resources that are required to build a product, the BOM forms the foundation for calculating the estimated cost of the product.

- In this module, you will learn how to create bill of materials and BOM versions by using the BOM designer in Supply Chain Management.

Module 3: Get started with discrete manufacturing in Dynamics 365 Supply Chain Management

If a company only produces several simple products, production can be scheduled manually with the correct bill of materials (BOM) parts arriving on the production floor, at the correct time, and at the proper resource. This module explains what discrete manufacturing is and how it works in Dynamics 365 Supply Chain Management.

- Discrete manufacturing concepts
- Production order statuses
- Production stages
- Bill of materials (BOM)
- Resources
- Routes and operations

Module 4: Work with commodity pricing and compliance in Dynamics 365 Supply Chain Management

The fall and rise of prices for commodities such as renewable energy, natural gas, coal, and oil in manufacturing affect the cost of production. In this module, you will learn how to set up commodity pricing and stay in compliance for your finished goods.

- Configure commodity pricing in Supply Chain Management.
- Configure product compliance in Supply Chain Management.

Module 5: Configure process manufacturing in Dynamics 365 Supply Chain Management

Process manufacturing is associated with formulas and manufacturing recipes, whereas discrete manufacturing uses discrete units and bills of materials. Process manufacturing is used in manufacturing environments where production is completed in batch or semi-continuous processes.

- Configure process manufacturing.
- Create and configure catch weight items.
- Configure approved vendors.

Module 6: Get started with Engineering Change Management for Dynamics 365 Supply Chain Management

Engineering Change Management for Dynamics 365 Supply Chain Management brings structure and discipline to the product data management process and enables products to be defined, released, and revised in a controlled manner supported by workflows. Engineering change management makes it

possible to document, assess the impact of, and apply engineering changes throughout the entire lifecycle of a product.

- Understand the features in engineering change management.
- Learn how the end-to-end engineering change management process works.

Module 7: Set up versioned products in Dynamics 365 Supply Chain Management

Product data is an important part of any company that uses supply chain management processes. With Engineering Change Management for Microsoft Dynamics 365 Supply Chain Management, manufacturers can use strong data management and version control.

- Set up engineering organizations.
- Work with product versioning.
- Create dimension groups by using the version dimensions.
- Create product life cycle states.
- Use engineering categories.

Module 8: Configure engineering change management for Dynamics 365 Supply Chain Management

Some setup is required to use Engineering Change Management for Dynamics 365 Supply Chain Management. The feature must be enabled and severities identified. Also, you need to identify product owners and configure workflows to approve engineering change orders and engineering change requests.

- Set up engineering change severities and severity rules.
- Set up product owners.
- Use a workflow with engineering change management.

Module 9: Request and follow up with product changes in Dynamics 365 Supply Chain Management

During the life cycle of an engineering product, instances might occur where the product information will need to be updated, removed, or replaced. In this scenario, Engineering Change Management for Dynamics 365 Supply Chain Management provides you with a structured process for making these changes.

- Create an engineering change request.
- Learn about business impacts.
- Create an engineering change order.

Module 10: Get started with product configuration in Dynamics 365 Supply Chain Management

Product configuration is a constraint-based product configuration tool that uses the Microsoft Solver Foundation (MSF) product technology that is designed for modeling and constraint solving. You can use product configuration to create and maintain product configuration models and to reuse components and attribute types in Dynamics 365 Supply Chain Management.

- Important terminology to help you understand the concepts and processes that are associated with product configuration.
- Product configuration end-to-end scenario.
- Different areas that span the product configuration process.
- The product configuration model.
- How to build a product configuration model.

Module 11: Work with the costing sheet in Dynamics 365 Supply Chain Management

Manufacturing companies need to calculate the costs that are related to finished goods that are being produced such as labor, materials, surcharges, and overheads.

You can configure Dynamics 365 Supply Chain Management to calculate costs of bill of materials of the finished goods in production. Additionally, you can create costing sheets that are broken out by particular cost categories, incorporate routing costs, and even add surcharges and other indirect costs. Companies can then analyze, summarize, and evaluate cost data so they can make the best possible decisions for price updates, budgets, cost control, and so on.

- Configure the costing sheet.
- Perform BOM calculation and analyze costs by using the costing sheet.

Module 12: Configure formulas for process manufacturing in Dynamics 365 Supply Chain Management

In process manufacturing in Dynamics 365 Supply Chain Management, a formula defines the materials, ingredients, and outcomes of a specific process.

- Manage formulas.
- Create co-products and by-products.

Module 13: Get started with production control in Dynamics 365 Supply Chain Management

The life cycle of production begins with the creation of the production order, batch order, or kanban. It ends with a finished, manufactured item that is ready for either a customer or another phase of production. Each step in the life cycle requires different kinds of information to complete the process. As each step is completed, the production order, batch order, or kanban shows a change in the production status. Different types of products require different manufacturing processes.

- Discrete, lean, and process manufacturing methodologies
- Unified manufacturing
- How to configure production control for unified manufacturing
- Capacity planning
- Integration between the General ledger and the Production control modules
- Production pools
- How to work with allocation keys
- IoT intelligence and insights in Supply Chain Management

Module 14: Use warehouse management for manufacturing in Dynamics 365 Supply Chain Management

Do you want to get the best out of warehouse management to support your manufacturing activities? In this module, you can learn about the manufacturing-specific warehouse management features in Dynamics 365 Supply Chain Management.

- Production input and output locations.
- Staging and order picking.
- Releasing BOM and formula lines to the warehouse.
- Cross-docking.
- Visibility into material exceptions.

Module 15: Work with manufacturing execution in Dynamics 365 Supply Chain Management

The Manufacturing execution module is intended primarily for manufacturing companies. It can be used to register time and item consumption on production jobs or projects. Before you start to use manufacturing execution for job registrations, you must set up various production parameters that define how and when registrations are posted during the production process. The settings of production parameters affect inventory management, production management, and cost calculation.

- Learn about the manufacturing execution process.
- Identify the roles in manufacturing execution.

- Process production orders.
- Discover the process workflows to manage a production.

Module 16: Get started with Asset Management for Dynamics 365 Supply Chain Management

Asset Management is a module for managing assets and maintenance jobs in Dynamics 365 Supply Chain Management. Asset Management enables you to efficiently manage and carry out tasks related to managing and servicing many types of equipment in your company, for example, machines, production equipment, and vehicles. Asset Management supports solutions across numerous industries.

- Review the benefits of Asset Management.
- Define the key terms and concepts in Asset Management.
- Learn how to install, and work with the Asset Management mobile workspace.
- Review Asset Management integration capabilities.

Module 17: Schedule work orders in Asset Management for Dynamics 365 Supply Chain Management

Schedules for maintenance workers, assets and other tools are created when work orders are scheduled in Asset Management for Dynamics 365 Supply Chain Management.

- Create worker calendars and scheduling.
- Identify and assign preferred maintenance workers.
- Schedule and dispatch work orders, including scheduling for a specific date and time.
- Review the scheduled work order maintenance jobs to assign resources to maintenance jobs.
- Learn how to calculate a capacity load on scheduled work orders by defined periods.

Module 18: Configure and perform the procure-to-purchase process in Dynamics 365 Supply Chain Management

Procure-to-purchase is the first step of the procure-to-pay process. Procure-to-purchase involves the procurement agent finding a vendor and requesting a material or service to be purchased.

- Apply the procurement and sourcing processes in a business scenario.
- Use purchasing policies.
- Create and maintain vendors.
- Create and process purchase requisitions.
- Create and process a request for quotation.

Module 19: Configure activity-based subcontracting and production flow costing in Dynamics 365 Supply Chain Management

The subcontracting functionality in Dynamics 365 Supply Chain Management offers visibility of the components that are provided to the subcontractor and also, if necessary, capacity visibility at the subcontractor. Additionally, working with kanban planning and process boards allows companies to make quick, informed decisions to effectively manage demand variations, especially when they are analyzing the production flow costing in lean manufacturing.

- Configure activity-based subcontracting.
- Designate vendors as subcontractors.
- Configure production flow costing.

Module 20: Configure and use agreements in Dynamics 365 Supply Chain Management

Companies negotiate and agree on certain terms to fix the price of items. These agreements help businesses make correct estimations of cost of goods purchased and set a base for sales prices. By purchasing or selling goods, companies might be entitled to receive rebates or gain royalty rewards, which can be converted to a credit note.

- Maintain trade agreements.
- Configure smart rounding.
- Create sales agreements.
- Use procurement policies.
- Create purchase agreements.
- Configure trade allowance.
- Configure brokerage.
- Configure royalties.
- Configure rebates.
- Learn about the Rebate management module.

Module 21: Work with capacity planning and scheduling in Dynamics 365 Supply Chain Management

The role of the scheduling system in Dynamics 365 Supply Chain Management is to plan the production process so that each operation in the production route is assigned a starting and ending date and time, and that the materials needed for production are available when the operation starts.

- Work with capacity planning.
- Schedule a production order.
- Split a production order.
- Set up scrap and waste.

Module 22: Configure and use built-in master planning in Dynamics 365 Supply Chain Management

Businesses in any market, such as retail, manufacturing, distribution, services, and public sector organizations, need functionality to help them plan for demand and supply of products and services during short or long-term operations. Get to know the Master planning feature of Dynamics 365 Supply Chain Management to streamline your planning, based on predetermined factors, to efficiently plan what materials need to be purchased, transferred, or manufactured.

- Set up and configure master planning.
- Use the Supply schedule page.
- Set up demand and supply forecasts.
- Configure calculated delays.
- Configure intercompany master planning.
- Run plans and firm planned orders.

Module 23: Use Planning Optimization in Dynamics 365 Supply Chain Management

The Planning Optimization Add-in enables the calculation of a master plan to occur outside Dynamics 365 Supply Chain Management and its SQL database. Planning Optimization improves performance and has minimal impact on the SQL database during the planning runs. Therefore, it can be run during normal office hours and provide immediate results based on the most recent activity.

- Review the architecture of the Planning Optimization Add-in.
- Identify the benefits of using Planning Optimization.
- Discover the performance improvements within Planning Optimization.
- Learn about priority-based planning

Module 24: Create and process fixed kanbans in Dynamics 365 Supply Chain Management

The Kanban schedule board lets the production planner control and optimize the production plan for kanban jobs. It makes the flow of kanban jobs transparent and gives the production planner a tool that optimizes and adjusts the production plan for the lean manufacturing work cell. Kanban rules in Dynamics 365 Supply Chain Management are tied to production flows as the foundation that defines the activities of a kanban.

Kanban rules can be set up to support a variety of make-to-stock and make-to-order scenarios. This module explains how to work with Kanban schedule boards and describes kanban types, kanban replenishment strategies, and fixed quantity kanban rules.

- Kanban rules.
- Manufacturing kanbans.
- Withdrawal kanbans.
- Fixed quantity kanbans.
- Kanban quantity calculations and circulating kanbans.

Module 25: Identify and configure batch attributes for process manufacturing in Dynamics 365 Supply Chain Management

Often, customers demand specific requirements for the finished goods results from process manufacturing. For example, in the cheese industry, milk is one of the raw materials that is used to produce the cheese and it can have attributes such as fat content and percentage weight. The cheese that is produced from the milk can have other attributes, such as moisture and age. If the customer requirement is not met, you will either have to rework the process or start a new batch process. To ensure that process manufacturers meet customer demands, you must define batch attributes that reflect customer requirements. Additionally, after a quality check, the finished goods must meet the value or range of values from batch attributes.

- Batch attributes.
- Batch balancing process.
- Potency management.

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