



Study Guide

SAP Certified Application Associate - SAP S/4HANA Production Planning and Manufacturing (1610)

C_TS420_1610

How to Prepare for Your Certification Exam

CUSTOMER

INTRODUCTION

The "SAP Certified Application Associate - SAP S/4HANA Production Planning and Manufacturing" certification exam verifies that a learner possesses the core knowledge in SAP S/4HANA manufacturing that is required to act as a consultant on projects in a mentored role.

Even though SAP S/4HANA is based on a new code-line compared to SAP ERP, the simplifications that were introduced with SAP S/4HANA do not change all basic business processes and their customizing.

In the SAP ecosystem, there are a lot of consultants coming with an SAP ERP background who are just upskilling to SAP S/4HANA by learning what's new/changed. Because of this, this certification is primarily targeted at this target group with solid fundamentals knowledge about SAP ERP production planning and manufacturing processes and their customizing – and potentially are already certified as SAP ERP Production Planning and Manufacturing consultants ([C_TSCM42_66](#) or [C_TSCM42_67](#) "SAP Certified Application Associate - Production - Planning & Manufacturing").

In order to make it easier for exam candidates to prepare for the certification the following information will provide more details about the knowledge that is required to successfully pass the exam, specifically related to those exam topics that did not change compared to ERP.

Please make sure to also consult the exam description and sample questions that are available on the SAP Training Shop, accessible via the following link:

https://training.sap.com/shop/certification/c_ts420_1610

REQUIRED KNOWLEDGE FROM SAP ERP PRODUCTION PLANNING AND MANUFACTURING

The SAP ERP production planning and manufacturing knowledge that is required to prepare for the C_TS420_1610 - SAP Certified Application Associate - SAP S/4HANA Production Planning and Manufacturing (1610) certification exam is listed below including a more detailed reference about how to attain the required knowledge via SAP Education courses/academies.

1. Advanced Planning in SAP S4HANA:

Topic	Learning Asset	Unit	Lesson
Execute the DS planning board in Production Planning	S4MA1_05		
Explain the basics of advanced planning	S4MA1_05		
Explain the basics of the Alert monitor	S4MA1_05		
Explain the evaluation concepts for planning results	S4MA1_05		
Explain the naming convention in Production Planning	S4MA1_05		
Identify overload situations in advanced planning	S4MA1_05		
Outline Detailed Scheduling	S4MA1_05		
Outline innovations in Production Planning	S4MA1_05		
Outline master data	S4MA1_05		
Outline Planning in the Detailed Scheduling Board	S4MA1_05		
Outline the advanced production planning process	S4MA1_05		
Outline the logic of the MRP in PP/DS	S4MA1_05		
Use pegging to plan the material flow	S4MA1_05		

2. Innovations of SAP S4HANA EM for Logistics:

Topic	Learning Asset	Unit	Lesson
Explain the new data model in Inventory Management	S4LG1_05		
Explain the new data model in Sales and Distribution	S4LG1_05		
Outline innovations based on DIMP integration	S4LG1_05		
Outline innovations by embedded EWM	S4LG1_05		
Outline innovations in Production Planning	S4LG1_05		
Outline innovations in the area of Production Planning	S4LG1_05		
Outline real-time analytics	S4LG1_05		

3. Introduction to SAP S4HANA:

Topic	Learning Asset	Unit	Lesson
Explain Analytics, virtual data model	S4H01_05		
Explain methodology activate	S4LG1_05		
Explain sales simplification	S4LG1_05		
Explain SAP S/4HANA deployment options	S4LG1_05		
Explain simplification list attributes	S4LG1_05		
Explain the methodology activate	S4LG1_05		
Explain the simplification philosophy	S4H01_05		
Explain transition scenarios	S4LG1_05		
Outline SAP S/4HANA as a new product philosophy	S4H01_05		
Outline SAP's digital value network	S4LG1_05		

4. Lean Manufacturing in SAP ERP:

Topic	Learning Asset	Unit	Lesson
Distinguishing features of repetitive manufacturing	SCM300_15	4	1
Explain confirmation in repetitive manufacturing	SCM300_15	4	3
Explain goods receipt in Kanban	SCM300_15	4	5
Explain Kanban replenishment	SCM300_15	5	1; 2
Explain the advantages of Kanban	SCM300_15	5	1
Identify Kanban relevant master data	SCM300_15	4	5
Identify repetitive manufacturing relevant master data	SCM300_15	3	4
Identify scenarios to use Repetitive Manufacturing	SCM300_15	3	4
Model line load planning in repetitive manufacturing	SCM300_15	4	3
Use reporting point backflush in repetitive manufacturing	SCM300_15	4	4

5. Master Data in SAP ERP:

Topic	Learning Asset	Unit	Lesson
Define production master data	PLM114_15	3	1
Define production versions	PLM114_15	8	2
Ensure data consistency for scheduling	PLM114_15	8	4
Model bill of material	PLM114_15	4	all
Model the routing	PLM114_15	8	2

6. Material Requirements Planning in SAP ERP:

Topic	Learning Asset	Unit	Lesson
Apply firming mechanism	SCM240_15	3	6
Apply scheduling in MRP	SCM240_15	4	5
Apply the planning table in MRP	SCM240_15	5	2
Describe the steps in the MRP run	SCM240_15	4	1;2
Explain MRP Settings	SCM240_15	3	2
Interpret Lot Sizing	SCM240_15	4	3
Interpret Rescheduling Exception Messages	SCM240_15	5	1
Level obsolete planned independent requirements	SCM240_15	2	7
Select the appropriate planning strategy	SCM240_15	2	1
Set up consumption parameters for planning strategies	SCM240_15	2	3
Set up the ATP check	SCM240_15	2	8
Use the BOM explosion number for BOM determination	SCM240_15	4	7

7. Process Orders in SAP ERP:

Topic	Learning Asset	Unit	Lesson
Determine master data objects for process orders	SCM300_15	3	3
Identify elements of process orders	SCM300_15	3	2
Identify features for Good Manufacturing Practices (GMP)	SCM300_15	3	3
Identify properties of process orders	SCM300_15	3	2
Using additional functions with process orders	SCM300_15	3	3

8. Production Orders in SAP ERP:

Topic	Learning Asset	Unit	Lesson
Activate automatic GR	SCM310_15	6	2
Apply material staging	SCM310_15	6	1
Configure availability check for production orders	SCM310_15	4	1
Define default storage location	SCM310_15	6	1
Determine consequence of order status 'technically complete'	SCM310_15	9	1
Determine the appropriate BOM item category	SCM310_15	3	5
Enhance system statuses with user statuses	SCM310_15	4	5

Explain Cost collectors	SCM310_15		
Explain the Production order scheduling	SCM310_15	3	6
Identify consequences of operation confirmation	SCM310_15	7	1
Interpret the content of a production version	PLM114_15	8	2
Set up DMS integration with production order	SCM310_15	3	5
Trigger order functions before order release	SCM310_15	1	3
Trigger routing selection	SCM310_15	3	5

9. SAP S4HANA Essentials:

Topic	Learning Asset	Unit	Lesson
Describe the capabilities of embedded analytics within SAP S/4HANA	S4H01_05		
Describe the new user experience with SAP Fiori	S4LG1_05		
Explain Best Practices for using SAP S/4HANA	S4H01_05		

10. SAP S4HANA Planning Methods:

Topic	Learning Asset	Unit	Lesson
Describe MRP Live	S4LG1_05		
Explain Concepts of Demand Planning in SAP S/4HANA	S4MA1_05		
Outline Planning Methods in SAP S/4HANA	S4LG1_05		
Outline the use of MRP Areas	S4LG1_05		
Understanding the technology of MRP Live	S4LG1_05		

11. SAP S4HANA Production Methods:

Topic	Learning Asset	Unit	Lesson
Describe MRP in SAP S/4HANA	S4MA1		
Describe MRP Live	S4MA1		
Describe Simplified Sourcing	S4MA1		
Outline Make-To-Order Production	S4MA1		
Outline Planning on Assembly Level	S4MA1		

REQUIRED (DELTA) KNOWLEDGE FOR SAP S/4HANA PRODUCTION PLANNING AND MANUFACTURING

SAP Education offers new SAP S/4HANA courses that are explaining what's new/changed compared to SAP ERP. Those are recommended as exam preparation because the following topic areas will make up about ~ 40% of the certification questions:

1. S4H01 – SAP Business Suite to SAP S/4HANA Delta

This course will help to understand the SAP S/4HANA essentials, such as the new user experience with SAP Fiori, the SAP HANA database concept, embedded analytics capabilities, as well as the usage of SAP best practices.

2. S4LG1 – Innovative Logistics Processes in SAP S/4HANA Enterprise Management

This course will provide insights into the logistics simplifications introduced with SAP S/4HANA and describes integration aspects of SAP S/4HANA sales with extended warehouse management.

3. S4MA1 –SAP S/4HANA Manufacturing – Functions & Innovations

This course focuses on the manufacturing-specific simplifications that were introduced with SAP S/4HANA and general concepts that are relevant for the manufacturing processes (e.g. materials management and operations, planning and production scheduling).

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