

SAP Variant Configuration

Contents

Introduction	6
Unit 1: Variant Configuration Overview	8
Purpose	8
Features	9
Integration	10
Business Process Integration	10
Quotation	11
Sales Order.....	14
Planning Strategies.....	15
Requirements Classes.....	16
Schedule Line Categories.....	18
Item Categories.....	19
Pricing and Costing.....	22
Configure-to-Order.....	23
Production Order	24
Terms	25
Variant Configuration Demonstration and Exercise	27
1. Display Material Master – Configurable Material.....	28
2. Display Bill of Material	42
3. Display Routing	46
4. Display Configuration Profile	51
5. Display Interface Design.....	56
6. Create Quotation for Configurable Item	58
7. Copy Quotation to Create Sales Order for Configurable Item.....	68
8. Display Variant Pricing Conditions	74
Course Objectives	78
Course Concepts.....	79
Unit 2: Variant Configuration Classification	82
Classes.....	84
Display and Discuss a Sample Class	84
Demonstration: Create a Class.....	91
Exercise: Create a Class	93
Characteristics.....	94

Display and Discuss a Sample Characteristic	94
Demonstration: Create a Characteristic	100
Exercise: Create a Characteristic.....	103
Assignment of Characteristics to Classes	104
Demonstration: Assign Characteristics to Class	104
Exercise: Assign Characteristics to Class.....	106
Summary:.....	106
Unit 3: Variant Configuration Master Data.....	108
Material Master	108
Demonstration: Display Material Master – Configurable Material.....	109
Demonstration: Create a Configurable Material Master.....	132
Exercise: Create a Configurable Material Master	151
Super Bill of Material.....	153
Demonstration: Display Super Bill of Material.....	153
Demonstration: Create a Super Bill of Material.....	166
Exercise: Create a Super Bill of Material	172
Super Routing	175
Demonstration: Display Super Routing	175
Demonstration: Create a Super Routing.....	182
Exercise: Create a Super Routing.....	188
Unit 4: Variant Configuration – Configuration Profiles and Interface Design	190
Features.....	190
Configuration Scenarios	191
Demonstration: Display Configuration Profile	191
Organizational Area.....	195
Configuration Parameters	197
Demonstration: Display Interface Design.....	201
Interface Design: Configuration Structure, Allowed Screens, Start Screen	209
Demonstration: Create Configuration Profile	212
Exercise: Create Configuration Profile	223
Review Questions	224
Unit 5: Variant Configuration – Object Dependencies	226
Use of Dependencies	226
Dependency Types.....	226
Preconditions.....	227
Selection Conditions.....	231
Procedures	232

Constraints.....	234
Processing Sequence of Dependencies	235
Demonstration: Create Dependencies	236
Demonstration: Precondition	236
Demonstration: Selection Condition	241
Demonstration: Procedure.....	247
Demonstration: Configuration Simulation	252
Exercise: Create Dependencies	263
Review Questions.....	264
Answers to Review Questions	265
Unit 6: Variant Configuration –Dependency Syntax	266
General Rules	267
Operators, Arithmetical Expressions, and Functions	269
Include/Intervals using Built in Condition IN.....	271
Include	271
Intervals	271
Built in Condition SPECIFIED	272
Built in Condition TYPE_OF	273
Review Questions	274
Answers to Review Questions	275

Unit 7: Variant Configuration – Variant Tables.....	277
Overview of Variant Tables.....	278
Tables in Actions and Procedures	279
Tables in Constraints.....	279
Tables in Preconditions.....	279
Tables in Selection Conditions.....	279
Demonstration: Display Variant Table Structure and Values	280
1. Display a Variant Table	280
2. Display the contents of a Variant Table	282
3. Display the where-used function of a Variant Table	283
4. Display a dependency using a Variant Table	284
5. Demonstrate Variant Table in use	286
Value Assignment Alternatives	291
Demonstration: Using Variant Tables.....	292
1. Create a Variant Table	292
2. Maintain the contents of a Variant Table	294
3. Create a dependency using a Variant Table	296
4. Assign the dependency to a Configuration Profile.....	298
5. Demonstrate Variant Table in use	300
Exercise: Using Variant Tables.....	304
Unit 8: Variant Configuration – User Defined Functions and Trace Functions.....	305
Use of User Defined Functions.....	305
Demonstration: Display User Defined Function	306
Trace Function.....	311
Demonstration: Trace Function.....	312
Exercise: Trace Function	317
Unit 9: Variant Configuration – Object Dependencies in BOMS and Task Lists.....	319
Selection Condition for BOM	320
Demonstration: Selection Condition for BOM Component.....	320
Exercise: Selection Condition for BOM Component	331
Selection Condition for Task List	332
Demonstration: Selection Condition for Task List.....	332
Exercise: Selection Condition for Task List.....	341
Class Nodes in BOM	342

Demonstration: Class Nodes in BOM	343
Exercise: Class Nodes in BOM	353
Unit 10: Variant Configuration – Dependencies for Value Assignment	355
Procedure for a Characteristic Value	356
Demonstration: Procedure for Setting Characteristic Value	356
Exercise: Procedure for Setting Characteristic Value.....	363
Procedure for Setting a Default.....	364
Demonstration: Procedure for Setting a Default.....	365
Exercise: Procedure for Setting a Default	368