Training Content

Advanced Handling of *PowerFactory* DAY 1

MODULE 1: Graphical Representation in Diagrams	
Presentation: Graphical Representation in Diagrams	1 h
Show the different graphical representations in <i>PowerFactory</i> . Use of Layers and Diagram Layout Tool.	the
Exercise: Graphical Representation in Diagrams. Part I	¹ /2 h
Define branches and include sites in a simplified diagram. Customise single line grams.	dia-
Coffee break	
Exercise: Graphical Representation in Diagrams. Part II	1 ¹ /2 h
Generate overview, detailed, simplified and geographical diagrams. Use of the gram layout tool. Assign coordinates in a geographical diagram	dia-

Q&A session

DAY 2

MODULE 2: Load Flow Troubleshooting

Presentation: Load Flow Troubleshooting

Classification of the typical convergence problems into data model, inner loop and outer loop issues. Description, identification and possible solutions for each type of problem.

Exercise: Solving Convergence Issues

Identify and solve data model, inner loop and outer loop problems.

Coffee break

MODULE 3: Compare and Merge

Presentation: Compare and Merge

Use of the compare and merge tool to compare elements and projects. Merge changes using the tool and solving conflicts.

³/4 h

³/4 h

¹/2 h

Exercise: Simple Compare and Merge of Elements	¹ /4 h
Use the compare and merge tool to identify the differences between projects and	

simple merge of elements.

Exercise: Advanced Handling of Compare and Merge Tool

Merge projects and handling of conflicts. Compare single elements using the Compare and Merge Tool.

Q&A session

DAY 3

MODULE 3: Advanced Network and Operational Planning

Presentation: Advanced Network and Operational Planning. Operation Scenarios	¹ /2 h
Network and operational planning with operations scenarios. Introduction to the Operation Scenario Manager.	
Exercise: Advanced Network and Operational Planning. Part 1	1 h
Define operational data and compare it using the <i>Operation Scenario Manager</i> . Trans- fer operational data using a <i>Scenario Apply Configuration</i> .	
Coffee break	
Presentation: Advanced Network and Operational Planning. Variations	¹ /2 h

Network and operational planning with variations and operations scenarios. Introduction to the Variation Manager.

Exercise: Advanced Network and Operational Planning. Part 2 1 h

Use variations for network planning. Track changes and identify conflicts using the Variation Manager. Merge and split variations. Transfer the data from the base case into a variation. Usage of the Error Correction Mode.

Q&A session

DAY 4

MODULE 5: Project Combination and Connection

Project Combination and Connection

Small presentation of the project combination and project connection tools and exercise to prepare and combine two different projects using the virtual node method.

³/4 h

³/4 h

MODULE 6: Data Extension

Data Extension	³ /4 h
Use of data extensions for additional parameters. Exercise to define a new class and new parameters in an existing class.	
Coffee break	
MODULE 7: Task Automation	
Task Automation	¹ /2 h
Automating task using the Task Automation tool. Exercise to prepare the Task Automa- tion tool and result files. Define parallelisation and show results of the automation.	
MODULE 8: PowerFactory Interfaces	
PowerFactory Interfaces	¹ /2 h
Presentation of available interfaces and usage of the DGS interface to enrich the data model. Exercise to import DGS data and export results.	

MODULE 9: Tips and Tricks for *PowerFactory*

Presentation: Tips and Tricks for <i>PowerFactory</i>	¹ /2 h
Helpful shortcuts, new functionalities of the newest PowerFactory version and room	
for open questions	

Q&A session

Time Schedule (Central European Time)

	Time
First 90 minutes block	9:00
Coffee break	10:30
Second 90 minutes block	10:45
Q&A session	12:15
End of the training day	12:30



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