

Hardware Development with PREEvision - Remote

Agenda VectorAcademy

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| Duration: | 1 preparation session of 1hour, eLearning of approx. 6 hours, 5 remote sessions of 3 hours each |
| Target Group: | System architects, development engineers, network designers, wiring harness designers |
| Prerequisites: | Experience in systems or component development |
| Goal: | Design, evaluate and optimize network, electric circuit and wiring harness in PREEvision |

1 | Concepts of PREEvision

eLearning (2h)

- > PREEvision as a product for the whole architecture management
- > Development process
- > Layer model

2 | Introduction to PREEvision

eLearning (2h)

- > Starting PREEvision the first time
- > Projects
- > Windows and diagrams
- > Perspectives and views
- > Traceability and navigation
- > Diagrams: Creating and filling diagrams, connection of artifacts
- > Working with Tables
- > Mappings

3 | PREEvision in Multi User Mode

eLearning (2h)

- > Lock / Commit
- > Reuse
- > Check in / Check out

4 | Requirements Layer and Customer Feature Layer

1.5 h

- > Creation of a customer feature list
- > Creation of customer features and requirements
- > Tables
- > Link requirements to customer features
- > Relations between customer features

5 | The Layers Network Topology and Component Architecture

1.5 h

- > Creation and connection of components
- > Creation of bus systems
- > Connection of components to buses
- > Using types
- > Inner structure of components

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6 | Component Management 1.0 h

- > Product line management for components
- > Version management for components

7 | The Layer Electric Circuit 1.0 h

- > Synthesis functionality
- > Electric circuit artifacts

8 | The Layer Wiring Harness 1.0 h

- > Wiring harness artifacts
- > Dependencies to upper layers
- > Using types

9 | Wiring Harness Details 2.5 h

- > Connectors
- > Cables, Splices, Inline Connectors

10 | The Layer Geometrical Topology 2.0 h

- > Geometrical topology artifacts
- > Layer perspective
- > Mapping

11 | The Wiring Harness Router 1.5 h

- > Configuration of the router
- > Constraints
- > Visualize the router's results

12 | Variants in PREEvision 1.5 h

- > Concepts
- > Artifacts for structuring like Alternatives, Systems and Sets
- > Specific diagrams

13 | Overview of PREEvision's Configuration Capabilities 1.0 h

- > Rules
- > Metrics
- > Reports

14 | Questions, Feedback, Suggestions 0.5 h