

SmartPlant Spoolgen SDx Training

COURSE CONTENT

GET IN TOUCH



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About Multisoft

Train yourself with the best and develop valuable in-demand skills with Multisoft Systems. A leading certification training provider, Multisoft collaborates with top technologies to bring world-class one-on-one and certification trainings. With the goal to empower professionals and business across the globe, we offer more than 1500 training courses, which are delivered by Multisoft's global subject matter experts. We offer tailored corporate training; project Based Training, comprehensive learning solution with lifetime e-learning access, after training support and globally recognized training certificates.

About Course

SmartPlant Spoolgen SDx Training by Multisoft Systems is designed to help engineers, designers, and project professionals master the process of generating, managing, and controlling piping isometrics efficiently within the Hexagon ecosystem. The course focuses on bridging the gap between design and fabrication by teaching participants how to create accurate and intelligent spool drawings directly from 3D plant models.

Module 1: Introduction & Product Overview

- ✓ What is Spoolgen / Spoolgen SDx — purpose & high-level features
- ✓ Benefits (automation, standardization, reduced drafting)
- ✓ Spoolgen in the SmartPlant ecosystem — how it fits with Smart 3D, SPF, Smart Materials
- ✓ System architecture, data model & workflows
- ✓ Licensing, modules, versions & deployment options

Module 2: User Interface, Navigation & Basics

- ✓ Launching Spoolgen, project login, project workspace
- ✓ Interface layout: views, toolbars, panels
- ✓ Workflow database, check in / check out of models
- ✓ Basic selection and navigation tools
- ✓ Spool naming conventions & selection filtering
- ✓ Splitting points, cut points, and partitioning

Module 3: Spool Drawing Creation & Modifications

- ✓ Creating spools from isometric / pipeline data
- ✓ Defining and placing welds (shop weld, field weld, tack weld, etc.)
- ✓ Managing weld types (site weld, offshore weld, support welds, fillet, trunnion)
- ✓ Automatic split, straight split, merging spools
- ✓ Modifying welds, removing welds, weld gaps
- ✓ Elbow-to-bend conversion, adjusting end preparations
- ✓ Moving components between lines or changing routing

Module 4: Fabrication Attributes & Annotations

- ✓ Assigning component / weld attributes (material, spec, thickness, etc.)
- ✓ Adding reference dimensions, flow arrows, labels
- ✓ Detailing sketches & custom annotations

- ✓ Additional materials (fittings, supports)
- ✓ Message / notes, information fields
- ✓ Attribute retrieval from external data tables

Module 5: Material Take-Off & Reports

- ✓ Generating Bill of Materials (BOM) / part lists
- ✓ Isometric drawing generation from spools
- ✓ Reports: spool lists, weld lists, material summaries
- ✓ Report customization: formatting, filters, output types
- ✓ Exporting reports for fabrication / procurement
- ✓ Scheduling / batch report generation

Module 6: Integration & Data Exchange

- ✓ Integration with SmartPlant Foundation (SPF)
- ✓ Publishing spoolgen data to Smart Materials / Smart Construction
- ✓ Import of pipeline / isometric / PCF data from Smart 3D or external sources
- ✓ Attribute mapping, spec / catalog alignment
- ✓ Handling interface conflicts, change propagation
- ✓ Exporting spool data to downstream systems (ERP, fabrication systems)

Module 7: Configuration, Customization & Administration

- ✓ Project setup and defaults (naming rules, spool naming, spec breaks)
- ✓ Managing spoolgen project settings, templates & standards
- ✓ User access, roles, permissions
- ✓ Custom symbol libraries and user symbols
- ✓ Drawing / report configuration files
- ✓ Override rules, spec breaks, and custom logic
- ✓ Version control, backups, and environment management

Module 8: Advanced Features & Optimization

- ✓ Automation of data association (from external sources)
- ✓ Cloud / API / web capabilities (if applicable in SDx version)
- ✓ Handling large projects: performance tuning, partitioning, caching
- ✓ Conflict resolution in workflow / model merge
- ✓ Batch operations and scripting (if supported)
- ✓ Hard copy isometric conversion for non-smart environments