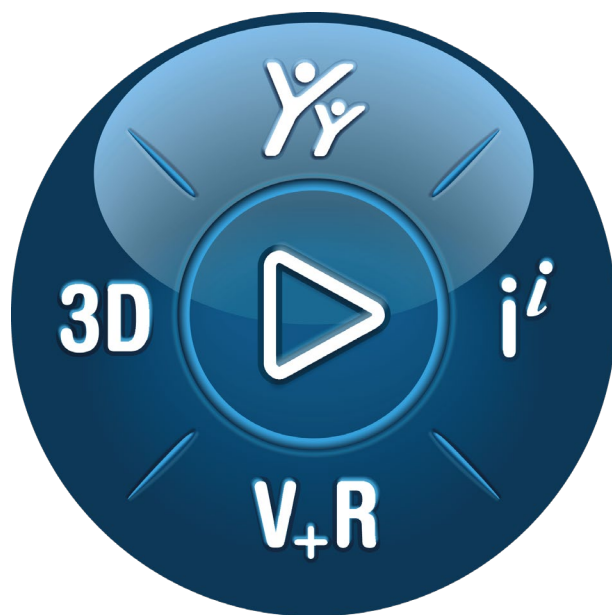


BIOVIA Enginuity

Training Course Catalog



3DEXPERIENCE®

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Engenuity Course Catalog

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SUMMARY

Establish what Enginuity does and where it fits into the product development cycle.

- Electronic notebook for batch-based formulation development
- Advanced calculation tools to streamline formula design
- Single point of entry for formula and raw material information:

Delivery Methods:

- **Instructor-Led Training:** Facilitated by an instructor, this training takes place at your location or through a virtual classroom. Onsite courses offer hands-on exercises to enhance the learning experience. In remote classes, hands-on exercises are assigned as homework, rather than during class time.

INSTRUCTOR-LED COURSES

FORMULATIONS USER

This course will provide users with basic competencies in using Enginuity to create, open and submit formulas; navigate and customize the user interface; correctly incorporate phases and premixes; QS to batch and phase; add specifications and attach related documents to formulas; understand formula summary options; and create standard reports.

Topics	Details
<p>User Preferences</p> <p>Goal: Set user preferences so that everyone is working the best way.</p> <ul style="list-style-type: none">• General Tab• Formula Grid Tab• Formatting Tab • Default Layouts Tab	<p>Onsite/ Remote Training: 1 Day</p> <p>Level: Beginner</p> <p>Prerequisites: None</p>
<p>New Formula Creation</p> <p>Goal: create a new formula and add new ingredients.</p> <ul style="list-style-type: none">• Creating a new formula and the “formulating on a napkin” philosophy• Adding ingredients:<ul style="list-style-type: none">➤ Insert and delete ingredients,➤ Autolookup• Searching for ingredients• Adding processing instructions:<ul style="list-style-type: none">➤ Insert and delete processing instructions➤ Create new processing instructions➤ Search for processing instructions	

QS to Phase and Batch

Goal: QS is one of the most commonly used calculations in the cosmetic chemistry. Users will be able to QS a formula or phase using one or more ingredients and will be introduced to the concepts of advanced QS.

- Basic QS Functions
 - QS to batch
 - QS to phase
 - QS to unknown/TBD value
 - Quantity is unknown.
- Simultaneously QS multiple ingredients to achieve fixed ingredient ratios
- Introduction to advanced QS

Phases and Premixes

Goal: create formulas using phases and premixes – included and not-included phases.

- Creating multiple included phases within a formula
 - Phase labeling
 - Phase Properties, screen
- Creating not-included phases with a formula
 - Fixed phase size
 - Floating phase size

Formula Submission

Goal: save the formula and introduce the concepts of document management, version control and formula validations.

- Formula statuses (hypothetical, experimental, etc.)
- Category - sub-category, brand - sub-brand
- Formula validation and submission rules.

Formula Searching and Retrieval

Goal: locate and retrieve previously submitted formulas, view and open formulas in the correct mode.

- Recent Formulas dock
- Navigating the formula search screen, searching by:
 - Simple and advanced screens
 - Formula characteristics:
 - Formula #, Formula name
 - Product characteristics: Code #, Category, Brand, Sub-brand, etc.
 - Full text searches
 - “Where Used” searching
 - Search by ingredient levels
 - Performance searching
- Formula viewing/opening options – new names and functionalities
 - View pdf rendition
 - View in Enginuity
 - Update (add data / info to formula)
 - Propagate (make formula change)
 - Process (make process change)
 - Duplicate (create new formula from template)
 - Copy selected rows to clipboard, o retrieve all versions,

Characteristic Masters and Performance Results

Goal: use characteristic masters to create repeatable testing methodologies.

- Linking Characteristics Masters to a formula
- The Characteristics tab
- Add Characteristic dialog

Adding Attachments

Goal: associate documents with formulas.

- Attaching documents
- ENOVIA 3DEXPERIENCE Docbase

Working with Layouts

Goal: set up, save, and retrieve specialized layouts to better perform common formulating tasks.

- Create an “All Costs” layout
 - Cost/Kg; Cost in Formula; Cost per Piece, Percent cost in formula
- Saving your layout
 - The Layouts directory
- Setting default layouts: the user preferences dialog
- Exporting to excel using saved layouts

Report Printing

Goal: create formula summaries and select and print relevant reports.

- Print Manager
- Selecting Reports
- Printing Formulas or Summaries
- Printing from Search results

The Extensible Calculation Engine

Goal: introduction to the calculations available from within the formula grid, including actual, per piece, and dry-after processing weights and volumes, with calculations modified by material activity and processing loss.

Formula-wide Calculations

- Overage
- Per Piece Calculations
- Rescaling weights when batch size changes
- Floating batch sizes
- Specific Gravity

Ingredient-specific Calculations

- Setting ingredient properties
 - Footnotes and processing notes
- Quantity preferences
 - Selecting units
 - Percents / PPM
- Calculate weight using:
 - As Added Basis (wet)
 - After processing (dry)
 - Active Basis
 - Per Piece Weight (active)
 - Specific Gravity

Cost Calculations

Goal: select relevant cost database to accurately determine formula costs, and will understand how to use the formula grid to perform cost optimizations. Users will learn to use the powerful tools that Enginuity provides for viewing, comparing and optimizing formula costs.

- Cost columns in formula grid
- Multi-plant Multi-Cost Comparison

Multi-Formula Edit & Multi-Formula Compare

Goal: simultaneously edit multiple formulas for shade matching, designs of experiments, cost analysis, or product optimization. View and compare disparate formulas in Multi-Formula Compare.

- Selecting formulas for MFE
- Multi-Formula Compare mode
- Copy and paste into grid
- MFE Report
- Formula costs in MFE and MFC
- MFE Exporting and Reporting,

Advanced QS

Goal: use Enginuity to develop formulas where the ratios of multiple, non-contiguous ingredients needs to be maintained in a formula grid.

- Developing formulas with Advanced QS
- Ingredient grouping with Advanced QS

Creating a New Raw Material

- Requesting a New Raw Material
 - Standard materials
 - Component materials
 - Required fields
- Administrative menu and editing a raw material
 - Raw material properties tabs
 - Suppliers tab
 - Attachments tab
 - Creating a raw material composition

Wrap Up: Template Creation

Goal: Build a template and learn to create and use templates to accelerate product development.

- Enginuity formula template based on individual user's formulating requirements