

BIOSTIMULANT TECHNOLOGY • CROP-ENHANCEMENT SKILL DEVELOPMENT



NTHRYS
OPC PVT LTD



Biostimulants Industrial Manufacturing Training Programs

A complete industrial catalogue of hands-on biostimulant production training modules — from humic substances to formulation technology.

67

PROGRAMS

10

CATEGORIES

2026

EDITION

Program Categories at a Glance

This catalogue lists every biostimulant and crop-enhancement input our training programs are equipped to manufacture and teach, organised into 10 technology streams. Each program carries a unique product code for easy reference, enrolment and certification.

STREAM	CATEGORY FOCUS	DESCRIPTION	COUNT
NBS-HS	Humic Substances	Humic & fulvic extraction, complexing & concentration	7
NBS-SW	Seaweed & Algal Extracts	Extraction, hydrolysis & stabilisation of algal actives	8
NBS-AA	Protein Hydrolysates & Amino Acids	Enzymatic / chemical hydrolysis & amino-acid recovery	8
NBS-MB	Microbial Biostimulants	Growth-enhancing inoculants & fermentation filtrates	6
NBS-SI	Silicon & Beneficial Elements	Soluble silicon & beneficial trace-element products	5
NBS-CB	Chitosan & Biopolymer Biostimulants	Polysaccharide & oligomer elicitor manufacture	5
NBS-BX	Botanical & Plant-Extract Biostimulants	Plant-extract processing & bioactive standardisation	7
NBS-GF	Vitamins, Natural Hormones & Growth Factors	Vitamin & natural phytohormone product formulation	6
NBS-SC	Specialty & Combination Biostimulants	Stress-relief, rooting & nutrient-efficiency blends	7
NBS-FT	Formulation & Product-Form Technology	Liquid, soluble, granular & controlled-release formats	8
Total training programs			67

HOW TO READ A CODE

NBS – HS – 01

NBS Nthrys Biostimulant Program HS Category stream 01 Program number

01

CATEGORY • NBS-HS

Humic Substances

Humic & fulvic extraction, complexing & concentration

7

PROGRAMS

CODE	TRAINING PROGRAM	DESCRIPTION
NBS-HS-01	Humic Acid (Leonardite)	Leonardite / lignite-derived humic acid.
NBS-HS-02	Fulvic Acid	Low-molecular-weight fulvic fraction.
NBS-HS-03	Potassium Humate	Potassium-complexed soluble humate.
NBS-HS-04	Sodium Humate	Sodium-complexed soluble humate.
NBS-HS-05	Humic-Fulvic Blend	Combined humic & fulvic concentrate.
NBS-HS-06	Activated / Oxidised Humics	Enhanced-reactivity humic product.
NBS-HS-07	Liquid Humic Concentrate	High-load liquid humic formulation.

CODE	TRAINING PROGRAM	DESCRIPTION
NBS-SW-01	Ascophyllum nodosum Extract	Brown-seaweed biostimulant.
NBS-SW-02	Kappaphycus Sap	Red-seaweed cell-sap biostimulant.
NBS-SW-03	Sargassum Extract	Tropical brown-seaweed extract.
NBS-SW-04	Kelp / Laminaria Extract	Cold-water kelp biostimulant.
NBS-SW-05	Ecklonia maxima Extract	Auxin-rich kelp extract.
NBS-SW-06	Gracilaria Extract	Agarophyte seaweed biostimulant.
NBS-SW-07	Soluble Seaweed Powder	Spray-dried seaweed flakes & powder.
NBS-SW-08	Microalgal Extract	Chlorella / Spirulina-derived biostimulant.

03

CATEGORY • NBS-AA

Protein Hydrolysates & Amino Acids

Enzymatic / chemical hydrolysis & amino-acid recovery

8

PROGRAMS

CODE	TRAINING PROGRAM	DESCRIPTION
NBS-AA-01	Animal Protein Hydrolysate	Collagen-derived protein hydrolysate.
NBS-AA-02	Fish Protein Hydrolysate	Enzymatic fish-protein biostimulant.
NBS-AA-03	Plant Protein Hydrolysate	Soy / legume-derived hydrolysate.
NBS-AA-04	Free Amino-Acid Blend	Balanced L-amino-acid concentrate.
NBS-AA-05	L-Amino Foliar Mix	High-purity foliar amino product.
NBS-AA-06	Glycine Betaine	Osmoprotectant amino derivative.
NBS-AA-07	Peptide Biostimulant	Bioactive short-peptide product.
NBS-AA-08	Single Amino Acid (Glutamic/Proline)	Targeted single amino-acid product.

04

CATEGORY • NBS-MB

Microbial Biostimulants

Growth-enhancing inoculants & fermentation filtrates

6

PROGRAMS

CODE	TRAINING PROGRAM	DESCRIPTION
NBS-MB-01	PGPR Biostimulant	Growth-promoting rhizobacteria formulation.
NBS-MB-02	Mycorrhizal Biostimulant	Root-symbiotic vigour biostimulant.
NBS-MB-03	Trichoderma Biostimulant	Vigour-enhancing Trichoderma product.
NBS-MB-04	Bacillus Consortium	Multi-strain Bacillus biostimulant.
NBS-MB-05	Yeast-Based Biostimulant	Yeast-extract growth enhancer.
NBS-MB-06	Fermentation-Filtrate Biostimulant	Cell-free metabolite biostimulant.

05

CATEGORY • NBS-SI

Silicon & Beneficial Elements

Soluble silicon & beneficial trace-element products

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PROGRAMS

CODE	TRAINING PROGRAM	DESCRIPTION
NBS-SI-01	Soluble Potassium Silicate	Plant-available silicon source.
NBS-SI-02	Stabilised Silicic Acid	Mono-silicic acid biostimulant.
NBS-SI-03	Selenium Biostimulant	Selenium-enriched stress product.
NBS-SI-04	Cobalt / Beneficial Element	Trace beneficial-element product.
NBS-SI-05	Silicon + Seaweed Combo	Synergistic silicon-seaweed blend.

06

CATEGORY • NBS-CB

Chitosan & Biopolymer Biostimulants

Polysaccharide & oligomer elicitor manufacture

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PROGRAMS

CODE	TRAINING PROGRAM	DESCRIPTION
NBS-CB-01	Chitosan	Deacetylated-chitin biostimulant & elicitor.
NBS-CB-02	Chito-Oligosaccharides	Low-MW chitosan oligomers.
NBS-CB-03	Alginate Biostimulant	Seaweed-alginate oligomer product.
NBS-CB-04	Carrageenan Oligomer	Sulphated-polysaccharide elicitor.
NBS-CB-05	Glucan / Polysaccharide Elicitor	Defense-priming biopolymer.

07

CATEGORY • NBS-BX

Botanical & Plant-Extract Biostimulants

Plant-extract processing & bioactive standardisation

7

PROGRAMS

CODE	TRAINING PROGRAM	DESCRIPTION
NBS-BX-01	Moringa Leaf Extract	Cytokinin-rich foliar biostimulant.
NBS-BX-02	Aloe Vera Extract	Polysaccharide plant biostimulant.
NBS-BX-03	Licorice Root Extract	Phytochemical-rich extract.
NBS-BX-04	Fermented Plant Extract	Fermented botanical biostimulant.
NBS-BX-05	Triaccontanol Extract	Plant-wax long-chain growth factor.
NBS-BX-06	Phenolic / Flavonoid Product	Antioxidant phytochemical product.
NBS-BX-07	Herbal Extract Blend	Multi-botanical biostimulant.

08

CATEGORY • NBS-GF

Vitamins, Natural Hormones & Growth Factors

Vitamin & natural phytohormone product formulation

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PROGRAMS

CODE	TRAINING PROGRAM	DESCRIPTION
NBS-GF-01	B-Vitamin Biostimulant	B-complex root & stress factor.
NBS-GF-02	Natural Cytokinin	Seaweed-sourced cytokinin product.
NBS-GF-03	Natural Auxin / IAA	Microbially-derived auxin product.
NBS-GF-04	Gibberellin-Based	Natural gibberellic-acid promoter.
NBS-GF-05	Triacantanol Concentrate	Standardised TRIA growth factor.
NBS-GF-06	Brassinosteroid-Based	Natural brassinolide product.

09

CATEGORY • NBS-SC

Specialty & Combination Biostimulants

Stress-relief, rooting & nutrient-efficiency blends

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PROGRAMS

CODE	TRAINING PROGRAM	DESCRIPTION
NBS-SC-01	Anti-Stress Biostimulant	Heat / drought abiotic-stress formulation.
NBS-SC-02	Rooting Biostimulant	Root-initiation & development product.
NBS-SC-03	Flowering & Fruiting Biostimulant	Bloom & fruit-set enhancer.
NBS-SC-04	Nutrient-Use-Efficiency Enhancer	Uptake-boosting biostimulant.
NBS-SC-05	Cold / Frost-Protection	Low-temperature stress product.
NBS-SC-06	Salinity-Tolerance Biostimulant	Saline-soil stress formulation.
NBS-SC-07	Complexed Micronutrient	Amino / humic-chelated micronutrient.

CODE	TRAINING PROGRAM	DESCRIPTION
NBS-FT-01	Liquid Soluble Concentrate	High-load liquid biostimulant.
NBS-FT-02	Soluble Powder (SP)	Water-soluble dry biostimulant.
NBS-FT-03	Granular / Soil-Applied	Granulated soil biostimulant.
NBS-FT-04	Foliar Spray Formulation	Leaf-uptake optimised product.
NBS-FT-05	Seed-Treatment Biostimulant	Seed-priming formulation.
NBS-FT-06	Fertigation / Drip Grade	Drip & fertigation-compatible product.
NBS-FT-07	Microencapsulated / Controlled-Release	Slow-release biostimulant.
NBS-FT-08	Effervescent / Tablet	Tablet & effervescent format.

ENROL • FORMULATE • ENHANCE

Build a Career in Biostimulant Manufacturing

Every program in this catalogue is delivered as hands-on training on working laboratory and production equipment — covering raw-material handling, extraction, hydrolysis, complexing, blending, formulation, quality control, bio-efficacy, packaging and regulatory compliance. Mix and match programs to design a track that fits your goals.

67 training programs

10 technology streams

Unique **product code** for every module

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