

SOIL HEALTH TECHNOLOGY • AMENDMENT & CONDITIONER SKILL DEVELOPMENT



NTHRYS
OPC PVT LTD



Soil Amendments & Conditioners Industrial Manufacturing Training Programs

A complete industrial catalogue of hands-on soil-amendment
production training modules — from biochar to problem-soil
reclamation blends.

58

PROGRAMS

10

CATEGORIES

2026

EDITION

Program Categories at a Glance

This catalogue lists every soil amendment and conditioner 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
NSA-BC	Biochar & Carbon Amendments	Pyrolysis, activation & carbon-conditioner production	6
NSA-LM	Liming & Acidic-Soil Amendments	Calcite, dolomite & lime-material processing	6
NSA-GS	Gypsum, Sulphur & Sodic-Soil Amendments	Gypsum & sulphur amendment manufacture	6
NSA-MC	Mineral & Clay Conditioners	Zeolite, bentonite & expanded-mineral processing	6
NSA-RD	Rock Dust & Mineral-Nutrient Amendments	Remineralising rock-powder & greensand processing	6
NSA-HB	Organic & Humus Builders	Leonardite, peat, coir & humus-conditioner production	6
NSA-WR	Water-Retention & Hydrogel Amendments	Hydrogel, wetting-agent & moisture-retainer manufacture	5
NSA-SS	Soil-Structure & Stabilizing Agents	Polymer & binder soil-stabiliser production	5
NSA-SC	Microbe-Enriched & Specialty Conditioners	Bioinoculant & nutrient-charged conditioner blends	6
NSA-RM	Reclamation & Problem-Soil Amendments	Saline, sodic & degraded-land restoration blends	6
Total training programs			58

HOW TO READ A CODE

NSA – BC – 01

NSA Nthrys Soil-Amendment Program BC Category stream 01 Program number

01

CATEGORY • NSA-BC

Biochar & Carbon Amendments

Pyrolysis, activation & carbon-conditioner production

6

PROGRAMS

CODE	TRAINING PROGRAM	DESCRIPTION
NSA-BC-01	Agro-Residue Biochar	Crop-residue pyrolysed biochar.
NSA-BC-02	Woody Biochar	Wood-feedstock biochar.
NSA-BC-03	Activated Biochar	High-surface-area activated biochar.
NSA-BC-04	Biochar-Compost Blend	Carbon-organic conditioning blend.
NSA-BC-05	Mineral-Enriched Biochar	Nutrient-charged biochar.
NSA-BC-06	Microbe-Charged Biochar	Inoculant-loaded biochar carrier.

CODE	TRAINING PROGRAM	DESCRIPTION
NSA-LM-01	Agricultural Lime (Calcite)	Calcium-carbonate pH corrector.
NSA-LM-02	Dolomitic Lime	Calcium-magnesium liming material.
NSA-LM-03	Quicklime (Burnt Lime)	Calcium-oxide fast liming agent.
NSA-LM-04	Hydrated Lime	Calcium-hydroxide liming material.
NSA-LM-05	Liquid Lime	Micronised liquid liming suspension.
NSA-LM-06	Paper / Sugar Lime Sludge	By-product liming amendment.

03

CATEGORY • NSA-GS

Gypsum, Sulphur & Sodic-Soil Amendments

Gypsum & sulphur amendment manufacture

6

PROGRAMS

CODE	TRAINING PROGRAM	DESCRIPTION
NSA-GS-01	Agricultural Gypsum	Calcium-sulphate sodic-soil amendment.
NSA-GS-02	Phosphogypsum	By-product gypsum amendment.
NSA-GS-03	Granular Gypsum	Granulated easy-spread gypsum.
NSA-GS-04	Elemental Sulphur	Soil-acidifying sulphur amendment.
NSA-GS-05	Bentonite Sulphur	Dispersible bentonite-sulphur pastille.
NSA-GS-06	Iron Pyrite	Sodic-soil reclamation amendment.

04

CATEGORY • NSA-MC

Mineral & Clay Conditioners

Zeolite, bentonite & expanded-mineral processing

6

PROGRAMS

CODE	TRAINING PROGRAM	DESCRIPTION
NSA-MC-01	Zeolite	Cation-exchange mineral conditioner.
NSA-MC-02	Bentonite Clay	Water-holding clay conditioner.
NSA-MC-03	Expanded Vermiculite	Lightweight aeration mineral.
NSA-MC-04	Expanded Perlite	Drainage & aeration mineral.
NSA-MC-05	Diatomaceous Earth	Silica-rich soil conditioner.
NSA-MC-06	Calcined Clay	Heat-treated structural conditioner.

05

CATEGORY • NSA-RD

Rock Dust & Mineral-Nutrient Amendments

Remineralising rock-powder & greensand processing

6

PROGRAMS

CODE	TRAINING PROGRAM	DESCRIPTION
NSA-RD-01	Basalt Rock Dust	Remineralising volcanic rock powder.
NSA-RD-02	Granite Rock Dust	Slow-release mineral rock powder.
NSA-RD-03	Glauconite (Greensand)	Potassium-iron mineral amendment.
NSA-RD-04	Rock Phosphate Powder	Slow-release phosphorus mineral.
NSA-RD-05	Dolomite Powder	Magnesium-calcium mineral amendment.
NSA-RD-06	Silicate Mineral Blend	Multi-mineral remineraliser.

06

CATEGORY • NSA-HB

Organic & Humus Builders

Leonardite, peat, coir & humus-conditioner production

6

PROGRAMS

CODE	TRAINING PROGRAM	DESCRIPTION
NSA-HB-01	Leonardite Amendment	Humic-rich organic conditioner.
NSA-HB-02	Peat Conditioner	Sphagnum / peat organic amendment.
NSA-HB-03	Coco-Peat / Coir	Coir-based structure builder.
NSA-HB-04	Lignite Conditioner	Brown-coal humus builder.
NSA-HB-05	Compost Soil Conditioner	Mature-compost conditioner.
NSA-HB-06	Humic-Granule Amendment	Granular humic conditioner.

07

CATEGORY • NSA-WR

Water-Retention & Hydrogel Amendments

Hydrogel, wetting-agent & moisture-retainer manufacture

5

PROGRAMS

CODE	TRAINING PROGRAM	DESCRIPTION
NSA-WR-01	Super-Absorbent Polymer (SAP)	Synthetic water-retaining hydrogel.
NSA-WR-02	Bio-Based Hydrogel	Starch / cellulose biodegradable hydrogel.
NSA-WR-03	Soil Wetting Agent	Surfactant infiltration aid.
NSA-WR-04	Anti-Crusting Conditioner	Surface-crust-prevention amendment.
NSA-WR-05	Moisture-Retainer Granule	Granular water-holding conditioner.

08

CATEGORY • NSA-SS

Soil-Structure & Stabilizing Agents

Polymer & binder soil-stabiliser production

5

PROGRAMS

CODE	TRAINING PROGRAM	DESCRIPTION
NSA-SS-01	Polyacrylamide (PAM)	Soil-aggregating polymer conditioner.
NSA-SS-02	Bio-Polymer Stabiliser	Natural-polymer structure builder.
NSA-SS-03	Gypsum Structure Improver	Aggregation & infiltration aid.
NSA-SS-04	Erosion-Control Amendment	Surface-binding soil stabiliser.
NSA-SS-05	Dust-Suppressant Conditioner	Soil-binding dust control.

09

CATEGORY • NSA-SC

Microbe-Enriched & Specialty Conditioners

Bioinoculant & nutrient-charged conditioner blends

6

PROGRAMS

CODE	TRAINING PROGRAM	DESCRIPTION
NSA-SC-01	Microbe-Enriched Conditioner	Bioinoculant-fortified amendment.
NSA-SC-02	Mycorrhiza Soil Amendment	Mycorrhiza-charged conditioner.
NSA-SC-03	Silicon Soil Conditioner	Plant-silicon soil amendment.
NSA-SC-04	Calcium Soil Conditioner	Soluble-calcium structural amendment.
NSA-SC-05	Slow-Release Conditioner	Controlled-release blended amendment.
NSA-SC-06	Multi-Mineral Conditioner	Combined mineral-organic blend.

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CATEGORY • NSA-RM

Reclamation & Problem-Soil Amendments

Saline, sodic & degraded-land restoration blends

6

PROGRAMS

CODE	TRAINING PROGRAM	DESCRIPTION
NSA-RM-01	Saline-Soil Amendment	Salt-leaching reclamation blend.
NSA-RM-02	Sodic-Soil Amendment	Gypsum-sulphur sodic reclamation.
NSA-RM-03	Acid-Soil Reclamation Blend	Lime-based acid-soil correction.
NSA-RM-04	Heavy-Metal Immobiliser	Contaminant-binding amendment.
NSA-RM-05	Degraded-Land Restoration Blend	Multi-component restoration mix.
NSA-RM-06	Mine-Spoil Reclamation Amendment	Mine / wasteland conditioning blend.

ENROL • BLEND • RESTORE

Build a Career in Soil-Amendment Manufacturing

Every program in this catalogue is delivered as hands-on training on working processing and blending equipment — covering raw-material processing, grinding & granulation, pyrolysis, blending, enrichment, formulation, quality control, BIS / FCO compliance, packaging and field calibration. Mix and match programs to design a track that fits your goals.

58 training programs

10 technology streams

Unique **product code** for every module

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