

ENVIRONMENTAL BIOTECHNOLOGY • BIOREMEDIATION SKILL DEVELOPMENT



NTHRYS
OPC PVT LTD



Bioremediation Cultures Industrial Manufacturing Training Programs

A complete industrial catalogue of hands-on bioremediation culture training modules — from oil-spill degraders to heavy-metal & pesticide remediation.

57

PROGRAMS

10

CATEGORIES

2026

EDITION

Program Categories at a Glance

This catalogue lists every bioremediation culture 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
NBR-HC	Hydrocarbon & Oil-Spill Bioremediation	Crude, fuel & oil-sludge degrading cultures	7
NBR-HM	Heavy-Metal Bioremediation	Metal-reducing, immobilising & biosorbent cultures	6
NBR-PD	Pesticide & Agrochemical Degradation	Pesticide & herbicide-degrading cultures	6
NBR-SR	Soil & Land Bioremediation	Bioaugmentation, biopile & land-farming cultures	6
NBR-IP	Industrial Pollutant Degraders	Dye, phenol, solvent & explosive degrading cultures	6
NBR-GW	Groundwater & Aquifer Remediation	Aquifer, solvent & nitrate-removal cultures	5
NBR-PL	Plastic & Polymer Degradation	PET, polyethylene & microplastic degrading cultures	5
NBR-MP	Mycoremediation & Phytoremediation Support	Fungal & plant-assisted remediation cultures	5
NBR-SP	Mine, Acid-Drainage & Specialty Remediation	AMD, mine-tailing & radionuclide cultures	5
NBR-FT	Formulation & Delivery Technology	Liquid, powder, immobilised & concentrate formats	6
Total training programs			57

HOW TO READ A CODE

NBR – HC – 01

NBR Nthrys Bioremediation Program HC Category stream 01 Program number

01

CATEGORY • NBR-HC

Hydrocarbon & Oil-Spill Bioremediation

Crude, fuel & oil-sludge degrading cultures

7

PROGRAMS

CODE	TRAINING PROGRAM	DESCRIPTION
NBR-HC-01	Crude-Oil Degrader	Petroleum hydrocarbon-degrading culture.
NBR-HC-02	Diesel / Petrol Degrader	Light-fuel hydrocarbon culture.
NBR-HC-03	Marine Oil-Spill Consortium	Seawater oil-degrading blend.
NBR-HC-04	Soil Hydrocarbon Degrader	Oil-contaminated soil culture.
NBR-HC-05	Refinery Oil-Sludge Degrader	Tank-bottom sludge culture.
NBR-HC-06	PAH Degrader	Polycyclic-aromatic hydrocarbon culture.
NBR-HC-07	Bilge / Tank-Cleaning Culture	Vessel & storage cleaning culture.

02

CATEGORY • NBR-HM

Heavy-Metal Bioremediation

Metal-reducing, immobilising & biosorbent cultures

6

PROGRAMS

CODE	TRAINING PROGRAM	DESCRIPTION
NBR-HM-01	Chromium Reducer	Cr(VI)-to-Cr(III) reducing culture.
NBR-HM-02	Arsenic Remediation Culture	Arsenic-transforming culture.
NBR-HM-03	Lead / Cadmium Biosorbent	Metal-binding biosorbent biomass.
NBR-HM-04	Mercury Reducer	Mercury-volatilising culture.
NBR-HM-05	Metal Immobilisation Culture	In-situ metal-stabilising culture.
NBR-HM-06	Biosorbent Biomass Product	Dead-biomass metal sorbent.

03

CATEGORY • NBR-PD

Pesticide & Agrochemical Degradation

Pesticide & herbicide-degrading cultures

6

PROGRAMS

CODE	TRAINING PROGRAM	DESCRIPTION
NBR-PD-01	Organophosphate Degrader	OP-pesticide degrading culture.
NBR-PD-02	Organochlorine Degrader	OC-pesticide degrading culture.
NBR-PD-03	Atrazine / Herbicide Degrader	Triazine-herbicide culture.
NBR-PD-04	Glyphosate Degrader	Glyphosate-mineralising culture.
NBR-PD-05	Carbamate Degrader	Carbamate-pesticide culture.
NBR-PD-06	Endosulfan Degrader	Endosulfan-detoxifying culture.

04

CATEGORY • NBR-SR

Soil & Land Bioremediation

Bioaugmentation, biopile & land-farming cultures

6

PROGRAMS

CODE	TRAINING PROGRAM	DESCRIPTION
NBR-SR-01	Contaminated-Soil Bioaugmentation	Broad soil-cleanup culture.
NBR-SR-02	Land-Farming Culture	Tilled-land remediation culture.
NBR-SR-03	Biopile Culture	Engineered-biopile inoculant.
NBR-SR-04	In-Situ Soil-Injection Culture	Sub-surface injection culture.
NBR-SR-05	Rhizoremediation Inoculant	Root-zone degrader culture.
NBR-SR-06	Degraded-Land Restoration Culture	Barren-land revival culture.

05

CATEGORY • NBR-IP

Industrial Pollutant Degraders

Dye, phenol, solvent & explosive degrading cultures

6

PROGRAMS

CODE	TRAINING PROGRAM	DESCRIPTION
NBR-IP-01	Dye / Textile Pollutant Degradar	Azo-dye decolourising culture.
NBR-IP-02	Phenol / Aromatic Degradar	Aromatic-compound culture.
NBR-IP-03	Solvent / VOC Degradar	Volatile-solvent degrading culture.
NBR-IP-04	Phthalate / Plasticizer Degradar	Plasticiser-degrading culture.
NBR-IP-05	Explosives (TNT) Degradar	Nitroaromatic-explosive culture.
NBR-IP-06	Cyanide Detoxifier	Cyanide-degrading culture.

06

CATEGORY • NBR-GW

Groundwater & Aquifer Remediation

Aquifer, solvent & nitrate-removal cultures

5

PROGRAMS

CODE	TRAINING PROGRAM	DESCRIPTION
NBR-GW-01	Groundwater Bioaugmentation	Aquifer cleanup consortium.
NBR-GW-02	Chlorinated-Solvent Degradar	TCE / PCE dechlorinating culture.
NBR-GW-03	Nitrate-Removal Culture	Groundwater denitrification culture.
NBR-GW-04	Reactive-Barrier Culture	Permeable-barrier biofilm culture.
NBR-GW-05	Pump-and-Treat Augmentation	Above-ground bioreactor culture.

07

CATEGORY • NBR-PL

Plastic & Polymer Degradation

PET, polyethylene & microplastic degrading cultures

5

PROGRAMS

CODE	TRAINING PROGRAM	DESCRIPTION
NBR-PL-01	PET-Degrading Culture	Polyester-plastic degrading microbes.
NBR-PL-02	Polyethylene Degradar	PE-film degrading culture.
NBR-PL-03	Microplastic Remediation	Microplastic-degrading consortium.
NBR-PL-04	Bioplastic Degradar	PLA / PHA degrading culture.
NBR-PL-05	Rubber / Tyre Degradar	Polymer-rubber degrading culture.

08

CATEGORY • NBR-MP

Mycoremediation & Phytoremediation Support

Fungal & plant-assisted remediation cultures

5

PROGRAMS

CODE	TRAINING PROGRAM	DESCRIPTION
NBR-MP-01	White-Rot Mycoremediation	Fungal pollutant-degrading culture.
NBR-MP-02	Mycelial Mat / Biofilter	Fungal biofilter remediation.
NBR-MP-03	PGPR Phytoremediation Aid	Plant-assisted cleanup inoculant.
NBR-MP-04	Endophyte Remediation Culture	In-planta degrader inoculant.
NBR-MP-05	Constructed-Wetland Culture	Wetland-bed microbial culture.

09

CATEGORY • NBR-SP

Mine, Acid-Drainage & Specialty Remediation

AMD, mine-tailing & radionuclide cultures

5

PROGRAMS

CODE	TRAINING PROGRAM	DESCRIPTION
NBR-SP-01	Acid-Mine Drainage Culture	Sulphate-reducing AMD culture.
NBR-SP-02	Mine-Tailing Remediation	Tailing-stabilising culture.
NBR-SP-03	Uranium / Radionuclide Culture	Radionuclide-immobilising culture.
NBR-SP-04	Selenium Remediation Culture	Selenium-reducing culture.
NBR-SP-05	Saline / Brine Remediation	Halotolerant cleanup culture.

CODE	TRAINING PROGRAM	DESCRIPTION
NBR-FT-01	Liquid Bioremediation Culture	Ready-to-apply liquid product.
NBR-FT-02	Powder / Dry Culture	Soluble dry-culture powder.
NBR-FT-03	Immobilised / Bead Culture	Carrier-immobilised cells.
NBR-FT-04	Slow-Release Product	Sustained-release remediation product.
NBR-FT-05	Spray-Dried Culture	Stabilised dried-culture powder.
NBR-FT-06	Bioaugmentation Concentrate	On-site activation concentrate.

ENROL • CULTURE • REMEDIATE

Build a Career in Bioremediation

Every program in this catalogue is delivered as hands-on training on working fermentation and field-remediation equipment — covering strain isolation & enrichment, consortium building, mother & bulk culture, fermentation, carrier blending & drying, degradation-efficacy & toxicity QC, packaging and environmental-compliance support. Mix and match programs to design a track that fits your goals.

57 training programs

10 technology streams

Unique **product code** for every module

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