

ENVIRONMENTAL BIOTECHNOLOGY • WASTE & COMPOSTING SKILL DEVELOPMENT



NTHRYS
OPC PVT LTD



Solid-Waste & Composting Cultures Industrial Manufacturing Training Programs

A complete industrial catalogue of hands-on waste-decomposition culture training modules — from compost accelerators to municipal solid-waste bioproducts.

56

PROGRAMS

10

CATEGORIES

2026

EDITION

Program Categories at a Glance

This catalogue lists every solid-waste decomposition and composting 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
NSW-AC	Aerobic Composting Cultures & Accelerators	Thermophilic & mesophilic composting inoculants	6
NSW-CR	Crop-Residue & Agro-Waste Decomposers	In-situ stubble & crop-residue decomposing cultures	7
NSW-LC	Lignocellulolytic Degradar Cultures	Cellulase, ligninase & fibre-degrading cultures	5
NSW-KW	Kitchen & Food-Waste Cultures	Home, community & food-waste composting cultures	6
NSW-MS	Municipal Solid-Waste (MSW) Cultures	City-waste, landfill & leachate treatment cultures	5
NSW-AI	Agro-Industrial Solid-Waste Degradars	Press-mud, distillery & processing-waste cultures	6
NSW-BK	Bokashi & Anaerobic Composting Cultures	EM, bokashi-bran & fermentation composting cultures	5
NSW-OL	Odour, Leachate & Waste-Management Cultures	Odour-control, leachate & sanitation cultures	5
NSW-SP	Specialty & Emerging Waste Degradars	Plastic, tannery & sludge degrading cultures	5
NSW-FT	Formulation & Delivery Technology	Carrier, liquid, granular & tablet culture formats	6
Total training programs			56

HOW TO READ A CODE

NSW – AC – 01

NSW Nthrys Solid-Waste Program AC Category stream 01 Program number

01

CATEGORY • NSW-AC

Aerobic Composting Cultures & Accelerators

Thermophilic & mesophilic composting inoculants

6

PROGRAMS

CODE	TRAINING PROGRAM	DESCRIPTION
NSW-AC-01	General Compost Accelerator	Broad aerobic composting inoculant.
NSW-AC-02	Thermophilic Composting Culture	High-temperature decomposer culture.
NSW-AC-03	Mesophilic Starter Culture	Early-stage composting starter.
NSW-AC-04	Compost Maturation Culture	Curing & humification culture.
NSW-AC-05	Windrow Inoculant	Open-windrow composting culture.
NSW-AC-06	In-Vessel Composting Culture	Reactor-composting inoculant.

02

CATEGORY • NSW-CR

Crop-Residue & Agro-Waste Decomposers

In-situ stubble & crop-residue decomposing cultures

7

PROGRAMS

CODE	TRAINING PROGRAM	DESCRIPTION
NSW-CR-01	Paddy-Straw Decomposer	Rice-stubble in-situ decomposer.
NSW-CR-02	Wheat-Straw Decomposer	Wheat-residue decomposing culture.
NSW-CR-03	Sugarcane-Trash Decomposer	Cane-trash composting culture.
NSW-CR-04	Cotton-Stalk Decomposer	Woody cotton-residue decomposer.
NSW-CR-05	Coir / Coconut-Waste Decomposer	Coir-pith decomposing culture.
NSW-CR-06	Banana Pseudostem Decomposer	Banana-residue decomposer.
NSW-CR-07	General Agro-Residue Decomposer	Multi-crop residue culture.

03

CATEGORY • NSW-LC

Lignocellulolytic Degradar Cultures

Cellulase, ligninase & fibre-degrading cultures

5

PROGRAMS

CODE	TRAINING PROGRAM	DESCRIPTION
NSW-LC-01	Cellulase-Producing Culture	Cellulose-degrading inoculant.
NSW-LC-02	White-Rot / Ligninase Fungi	Lignin-degrading fungal culture.
NSW-LC-03	Hemicellulose Degradar	Xylan-degrading culture.
NSW-LC-04	Trichoderma Decomposer	Fungal cellulolytic accelerator.
NSW-LC-05	Pretreatment Microbial Culture	Biomass-softening pretreatment culture.

04

CATEGORY • NSW-KW

Kitchen & Food-Waste Cultures

Home, community & food-waste composting cultures

6

PROGRAMS

CODE	TRAINING PROGRAM	DESCRIPTION
NSW-KW-01	Home Composting Culture	Household wet-waste composter.
NSW-KW-02	Kitchen-Waste Composter	Daily food-scrap decomposer.
NSW-KW-03	Community Composting Culture	Bulk community-bin culture.
NSW-KW-04	Food-Waste Digester Culture	On-site digester inoculant.
NSW-KW-05	Wet-Waste Odour Control	Bin odour-suppressing culture.
NSW-KW-06	Compost-Pit Activator	Pit-composting starter culture.

05

CATEGORY • NSW-MS

Municipal Solid-Waste (MSW) Cultures

City-waste, landfill & leachate treatment cultures

5

PROGRAMS

CODE	TRAINING PROGRAM	DESCRIPTION
NSW-MS-01	MSW Composting Culture	City-waste composting inoculant.
NSW-MS-02	City-Compost Accelerator	Windrow MSW accelerator.
NSW-MS-03	Landfill Bioremediation Culture	Dump-site stabilising culture.
NSW-MS-04	Landfill Leachate Treatment	Leachate-degrading culture.
NSW-MS-05	Legacy-Waste Bio-Mining Culture	Old-dump bio-mining inoculant.

06

CATEGORY • NSW-AI

Agro-Industrial Solid-Waste Degraders

Press-mud, distillery & processing-waste cultures

6

PROGRAMS

CODE	TRAINING PROGRAM	DESCRIPTION
NSW-AI-01	Press-Mud / Filter-Cake Culture	Sugar-mill solid-waste decomposer.
NSW-AI-02	Distillery Solid-Waste Culture	Spent-grain & sludge decomposer.
NSW-AI-03	Paper / Cardboard Degradar	Cellulosic packaging decomposer.
NSW-AI-04	Oil-Cake / De-Oiled Waste Culture	Cake-residue decomposer.
NSW-AI-05	Fruit / Vegetable Waste Culture	Mandi & processing-waste decomposer.
NSW-AI-06	Poultry / Animal-Waste Decomposer	Mortality & litter composting culture.

07

CATEGORY • NSW-BK

Bokashi & Anaerobic Composting Cultures

EM, bokashi-bran & fermentation composting cultures

5

PROGRAMS

CODE	TRAINING PROGRAM	DESCRIPTION
NSW-BK-01	Bokashi EM Bran	Fermented-bran inoculated carrier.
NSW-BK-02	Anaerobic Composting Culture	Sealed-pit fermentation culture.
NSW-BK-03	Effective-Microorganism (EM) Culture	Mixed-consortium fermentation culture.
NSW-BK-04	Lactic Fermentation Starter	LAB-based bokashi starter.
NSW-BK-05	Bokashi Liquid Activator	Liquid fermentation activator.

08

CATEGORY • NSW-OL

Odour, Leachate & Waste-Management Cultures

Odour-control, leachate & sanitation cultures

5

PROGRAMS

CODE	TRAINING PROGRAM	DESCRIPTION
NSW-OL-01	Waste-Site Odour Control	Dump & MRF odour-reducing culture.
NSW-OL-02	Ammonia / H2S Control Culture	Gas-odour neutralising culture.
NSW-OL-03	Leachate Treatment Culture	Waste-leachate degrading culture.
NSW-OL-04	Drain / Garbage-Area Sanitiser	Bio-sanitation culture.
NSW-OL-05	Fly / Vector-Suppression Culture	Maggot & vector-reducing culture.

09

CATEGORY • NSW-SP

Specialty & Emerging Waste Degraders

Plastic, tannery & sludge degrading cultures

5

PROGRAMS

CODE	TRAINING PROGRAM	DESCRIPTION
NSW-SP-01	Plastic-Degrading Culture	Emerging plastic-degrading microbes.
NSW-SP-02	Tannery Solid-Waste Culture	Hide & fleshing-waste decomposer.
NSW-SP-03	Textile Solid-Waste Culture	Fibre-waste decomposing culture.
NSW-SP-04	Hydrocarbon-Sludge Degradar	Oily-sludge decomposing culture.
NSW-SP-05	Vermicompost Microbial Enhancer	Vermibed microbial booster.

CODE	TRAINING PROGRAM	DESCRIPTION
NSW-FT-01	Powder / Bran Carrier Culture	Carrier-based dry inoculant.
NSW-FT-02	Liquid Culture	Sprayable liquid decomposer.
NSW-FT-03	Granular Culture	Broadcast-grade granular inoculant.
NSW-FT-04	Tablet / Briquette Culture	Compressed slow-release product.
NSW-FT-05	Spray-Dried Culture	Stabilised dried-culture powder.
NSW-FT-06	Concentrated Mother Culture	On-site multiplication concentrate.

ENROL • DECOMPOSE • RECYCLE

Build a Career in Waste-to-Resource Bioproducts

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

56 training programs

10 technology streams

Unique **product code** for every module

NTHRYS OPC PVT LTD

+91-8977624748

smo@nthrys.com

www.nthrys.com