

# Nanomaterials Training

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Requirement: **NOTICE DOE N 456.1**

At the time of initial assignment, provide all nanomaterial workers and their supervisors with training specific to nanotechnology activities.

Provide refresher training when there is new information.

## Status:

- Training web-module for Support Staff (HazCom) completed.
  - For staff who do maintenance, custodial work, and testing of HEPA filters
  - Work Permit
- Training for R&D Staff
  - For researchers, users, guests who work with nanomaterials (Module to be completed 3/09, pilot 4/09)
  - Staff replacing HEPA filters, lab technicians
  - Work Planning

# Training for Support Personnel

BNL Training Home Page - Windows Internet Explorer

http://training.bnl.gov/demo/courses/index.html

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BNL Training Home Page

## BNL Web Training Center

### Web Courses

- [Credit Card Approving Official Refresher Training](#) (TQ-CC-AO)
- [Credit Card Refresher Training](#) (TQ-CCT-W)
- [Cryogen Safety](#) (HP-OSH-025)
- [Electrical Circuit Breaker and Switch Operation Safety](#) (TQ-ELECT-BSOP)
- [Electrical Safety for Benchtop Workers](#)(TQ-ELECT-BENCHTOP)
- [Electrical Safety I](#) (TQ-ELECSAF1)
- [Electronic Time Reporting](#) (TQ-ETR1)
- [Electronic Time Reporting for Supervisors and Managers](#) (TQ-ETR2)
- [Employee Refresher 2004/2005 Training](#) (TQ-GET2004)
- [Environmental Management System Audits and Compliance Inspection How to Survive](#) (TQ-EMS-3)
- [Environmental Management System ISO 14001 Overview](#) (TQ-EMS-1)
- [Environmental Objectives and Targets](#) (TQ-EMS-2)
- [Environmental Restoration Web Courses](#)
- [Ergonomics in Mechanical and Industrial Work](#) (TQ-ERGO-IND)
- [Ergonomics in the Laboratory Setting](#) (TQ-ERGO-LAB)
- [Lead in the Workplace](#) (TQ-LEAD)
- [Local Emergency Coordinator](#)
- [Lock Out/Tag Out Affected Employee Training](#) (HP-OSH-151A-W)
- [Lock Out/Tag Out Authorized Employee Training](#) (HP-OSH-151B-W)
- [Lyme Disease and Tick/Chigger Bite Prevention](#) (TQ-LYME1)
- [Management Assessment](#) (TQ-MGMTASSESS)
- [Methylene Chloride Training for HazCom Operations](#) (TQ-MCAT)
- [Nanotechnology in the Workplace](#) (TQ-NC-HS1)
- [New Building Manager Orientation](#) (TQ-BLDGMGR1)
- [Noise and Hearing Conservation](#) (TQ-NOISE)
- [NLSL Web Courses](#)
- [NSRL Radiobiology User Exam](#) (AD-USER-RADBIO-EXAM)
- [On-the-Job Training](#) (TQ-OJT1)
- [OSHA Compliance Inspection Training](#) (TQ-OSHAAUDIT)
- [Overhead Crane Operator](#) (HP-Q-010-W)
- [Oxygen Deficiency Hazard](#) (TQ-ODH)
- [Oxygen Deficiency Hazard Class 01 Training](#) (TQ-ODH01)
- [Skill of the Craft for a Physicist at the BRAHMS Complex](#) (RC-SOCBRAHMS)
- [Skill of the Craft for Users at the PHOBOS Complex](#) (RC-SOCPHOBOS)
- [STAR Skill of Craft for Users](#) (RC-SOCSTAR)
- [Static Magnetic Fields](#) (TQ-SMF)
- [Stress Management for Employees](#) (PE-EMP-SM)
- [Suspect/Counterfeit Items Awareness Training](#) (QA-SCI-3A)
- [Supervisor Training](#)
- [Technical Surveillance Countermeasure](#) (TQ-TSCM1)
- [Transportation of Hazardous Material](#) (TQ-HAZMAT-A/B)
- [Tuberculosis Prevention and Control](#) (OM-TBT-W)
- [Vital Record](#) (ID-VITALREC1)
- [Work Planning and Control for Science and Technology](#) (TQ-WORKPLAN-ST)
- [Work Planning and Control for Operations](#) (TQ-WORKPLAN-MO)

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**Nanotechnology in the Workplace**

# Course Summary (Support Staff)

Many precautions are taken at BNL because there is not a lot of current data available on the risks and hazards associated with nanomaterials in the workplace.

Workers could be exposed by one of three routes: inhalation, ingestion, or penetration through skin.

Risk of employee exposure is reduced by limiting potential for contact with nanomaterials. (Examples of precautions taken include: working in HEPA hoods, keeping nanomaterials sealed in containers, and use of personal protective equipment.)

Locations where nanomaterials are used or stored are posted.

# Course Summary (Support Staff)

Disposal and handling of nanomaterial waste is strictly controlled (properly bagged, sealed and labeled), and disposed of through the Hazardous Waste Management Facility.

Established work planning processes are used to ensure that work involving nanomaterials is accomplished safely.

- Get involved in planning processes and ask questions when reviewing work permits.
- Know how to respond and who to contact for different situations.

If you have concerns or questions, please stop the work and ask!