

## How to Apply

Applicants are encouraged to register electronically. A course description, news on future sessions, registration form and additional details are available at:

<http://www.dd.anl.gov/ddtraining>

Training Course Registrar

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The training course registration fee can be paid by check or most major credit cards. Checks should be made payable to Argonne National Laboratory and sent to the registrar at the address above. The registration fee or proof of forthcoming payment must be received prior to the course. For additional payment options, please contact the registrar.

Discount rates are available - please check our website.

For more information, visit

[www.dd.anl.gov/ddtraining](http://www.dd.anl.gov/ddtraining)

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Training the world  
decommissioning community

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Check our website for detailed information on  
upcoming training courses



## Why Argonne National Laboratory?

Over the last 30 plus years, the Decommissioning Program of Argonne National Laboratory has successfully decommissioned numerous nuclear and radiological facilities including: four research reactors (a 100 MW BWR prototype, a 5 MW heavy water reactor, a smaller 250 kW biological irradiation facility and a small 10 kW research reactor), a suite of 61 plutonium glove boxes located in nine research labs, a 60" cyclotron facility, a fuels fabrication facility, a hot cell facility, and several smaller non-reactor (waste management) radiological facilities. In addition, extensive decontamination work was performed on five hot cells formerly used in the U.S. Navy Proof-of-Breeding program. In addition to the decontamination and dismantling, the CP-5 research reactor facility was selected to serve as a DOE test bed for the evaluation of select technologies to ascertain their value in performing future decommissioning projects. In addition to this work at the Illinois site, the staff also lends support to other DOE and NRC regulated sites in decommissioning. We are also actively involved in international decommissioning activities as well.



U.S. DEPARTMENT OF  
**ENERGY**

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A Training Course on

## Facility Decommissioning



Organized by:

Argonne National Laboratory

[www.dd.anl.gov/ddtraining](http://www.dd.anl.gov/ddtraining)



Argonne National Laboratory is offering its popular **Facility Decommissioning Training Course**. A registration fee is required to attend and participate in the training course. Background information, a course description and registration form are available at [www.dd.anl.gov/ddtraining](http://www.dd.anl.gov/ddtraining). Applicants are highly encouraged to register electronically. Early registration is recommended due to the limited class size.

## Purpose of the Course

The purpose of the course is to: 1) provide information on the basic steps in the decommissioning process and 2) impart lessons learned from past experience in decommissioning. Elements included in this training course will assist in decision-making, planning, and implementation associated with decommissioning. Moreover, a major objective of this training course is to demonstrate the need for early and complete project planning to achieve safe and cost-effective decommissioning.

## Target Audience

Personnel responsible for decommissioning nuclear facilities including large and small facilities. This includes: utility, university, reactor and other operational facility management and staff, waste management staff, procurement officials, regulators, decommissioning technology developers and providers, oversight groups, DOE & DoD staff, radioisotope and radio-pharmaceutical research facilities/production facilities, and consulting and engineering firms. **Much of the material is directly relevant to the decommissioning of any type or size facility.**

## Instructors

Argonne Decommissioning Program experts are supplemented with other decommissioning subject matter experts. We use only seasoned decommissioning professionals - real decommissioning 'doers' - including: management of decommissioning firms, subject matter experts, professional engineers, certified health physicists, D&D program managers, D&D project managers, staff members and technologists.

## Course Outline

### Background information

- Objectives and overview of the course
- U.S. experiences in decommissioning

### Regulatory aspects of decommissioning

- Safety and radiation protection criteria in decommissioning
- Use of a graded approach for smaller facilities
- Regulatory requirements and expectations

### Responsibilities and functions of the parties involved

- Licensee
- Regulatory body
- Other involved parties

### Planning a decommissioning project

- Facility shutdown/surveillance and maintenance
- Facility characterization
- Assessment of alternative strategies
- Preliminary and detailed planning

### Waste Management

- Assessment of amounts and characteristics of decommissioning waste
- Procedures for conditioning, packaging, storage, transport and disposal
- Compliance with radioactive waste management
- Standards and disposal site requirements
- Recycling/reuse of decommissioning materials
- Waste minimization/pollution prevention

### Decontamination

- Need for and extent of decontamination
- Chemical and non-chemical decontamination techniques

### Dismantling

- Metal cutting techniques
- Concrete removal
- Intact removal of large components
- Remotely-controlled operations
- Selection of optimal technique



### Financial planning

- Elements of decommissioning costs
- Cost estimating guidelines
- Financing approaches

### Environment safety and health issues

- Environment safety and health
- Unexpected occurrences
- Environmental issues
- Security

### Management of a decommissioning project

- Organization and staffing
- Training
- Quality assurance/quality control
- Record-keeping and reporting

### Completion of a decommissioning project

- Post-decommissioning survey final reports
- License termination

### Decommissioning of nuclear labs & other facilities

- Case studies on decommissioning
- Evolving technologies for decommissioning
- Technical visit to a facility undergoing decommissioning (as available)

Each participant will receive copies of valuable resources for use in understanding the decommissioning process and will be given a select reading list of other information sources.

## Vendor/Poster Exhibit Area

During the training course, an area adjacent to the lecture room will be available for exhibits or the display of material from decommissioning vendors. A poster exhibit area will also be designated for stand-alone displays from other organizations. Vendors will be charged a fee to cover overhead and set up expenses. All shipping costs are the responsibility of the individual vendor. Space will be allocated on a first-come, first-served basis. The vendor fee can be paid by check or Visa, MasterCard or American Express credit cards.

Samples of decommissioning and related technical publications will be available in the display area. Items include material from various technical and topical publications and membership and subscription materials from professional societies.



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This training course can be conducted at your site. Please contact the Course Director for details.