



Certificate course on Skill Development in Care, Management of Laboratory Animals & Experimental Techniques



CSIR-CDRI

CSIR-CDRI is a unique R & D Institution in the country with state of the art infrastructure for new drug discovery and development from "Concept to Commercialization". It is poised to become a global leader through cutting edge science & technology. For New India, the Institute is re orienting itself into a multidisciplinary nodal centre for development of drug for the unmet medical needs as well as the expectation of the industry. While focusing on the discovery & development of drugs, the institute is aligned & contributing towards the national missions programmes such as Make in India, Swatch Bharat, Skill India, Digital India, Start-up India, Accessible India and Sashakt Bharat.

The "Certificate course on Skill Development in Care, Management of Laboratory Animals & Experimental Techniques" is a unique opportunity for skill development and basic training in the area of laboratory animal care, management and experimentation. The course will cover the basic of how to manage animal facility, routine care and husbandry practices of animals, experimental procedures and techniques, quality control procedures, GLP etc. The trained and skilled candidates will have good job prospect in the area of biomedical research, animal facilities in public and private research institutes, pharma industry, and academia. The candidates will have opportunity to good exposure for laboratory animals including non-human primates available at state of art Laboratory Animal Facility, CSIR-CDRI.

CSIR-CDRI invites applications for the course as per the details given below:

Title of the Course	: Certificate course on Care, Management of Laboratory Animals & Experimental Techniques
Duration	: 03 Weeks (29th May to 16th June 2023)
No. of Seats	: 20
Educational Qualification	: 10+2 onwards (Science stream will be preferred)
Venue of the course	: CSIR-CDRI, Lucknow
Course Fee	: Rs. 10,000/-
Last Date for submission of applications	: 19th May 2023
Course Coordinator	: Dr. Rajdeep Guha (E-mail: rajdeep.guha@cdri.res.in)

TRAINING CURRICULUM

Basic Principles of Laboratory Animal's Care & Management:

General introduction to research animals of various species, their biology and behavior, basic laboratory animal husbandry practices, animal facility layout and functional units, general routine sanitation and hygiene practices, cleaning, washing and sterilization of animal cages, racks, and bedding etc.

Breeding Techniques of different species of Laboratory Animals:

Basic introduction to different methods of breeding practices, inbreeding and out breeding, factors responsible for successful breeding of animals, setting and caring of breeding colonies, Breeding and management of transgenic, knockouts and other genetically modified animal models genetic characterization of animals etc.

Experimental techniques in Laboratory Animals:

Hands on training on basic experimental techniques on laboratory animals like animal handling and restraining, routes of administration, sampling techniques, necropsy techniques, anesthesia and euthanasia in animals etc.

Patho-physiology of commonly occurring diseases and their preventive measures:

Basic introduction to common diseases observed in animals, implementation of health monitoring program and methodologies, prevention and treatment of diseases etc.

Record keeping & Documentation:

Recording and upkeep of various records related to animal breeding, receipt, distribution and dispatch of animals, feed and bedding, disposal records etc.

Animal Nutrition:

Basic requirements of animal nutrition, preparation and formulation of animal feed (theory only), storage and distribution of animal feed etc.

Animals Ethics & Welfare:

Basic concepts on animal welfare and ethics, introduction to animal national and international regulations and guidelines related to animal welfare, preparation and designing animal experimental protocol, Institutional Animal Ethics Committee (IAEC) and its functionaries etc.

SALIENT FEATURES OF THE TRAINING

- About 40% theory and 60% practical sessions as per course curriculum
- Hands on training
- Job oriented curriculum
- Understanding basic principles
- Lectures assisted with multimedia aids
- Interactive session
- Exposure to animal's health and genetic monitoring techniques.
- Brief Hands-on practical exposure on the state-of-the-art equipments
- Planning, setting of breeding and obtaining meaningful results

EVALUATION OF TRAINEES

Evaluation will consist of the following components

Theory Courses (50 Marks)

- (a) Continuous assessment through assignments
- (b) Term and examination

Practical Courses (50 Marks)

- (a) Demonstration of Experimental techniques
- (b) Guided breeding and management techniques

CERTIFICATION

The certificate will be issued to the successful candidates for the course

IMPORTANT DATES:

Receiving of application by E-mail (last date): 19/05/2023

Intimation to selected candidates: 22/05/2023

Fee submission (last date): 25/05/2023

Course Start: 29/05/2023

Kindly send Application by E-mail only (sdp@cdri.res.in)

**For more details and registration, kindly visit the link;
<https://www.cdri.res.in/skilldevelopment.aspx>**

Contact:

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