

## Clinical Genomics Foundations & Healthcare Workflows — Hands-on

Build a strong foundation in how genomics is actually used in hospitals and diagnostics labs. This module connects NGS concepts to real healthcare workflows, from test ordering and sample routing to report generation, tumor board discussions and follow up actions in precision medicine settings.

# Clinical Genomics Foundations & Healthcare Workflows

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### Session 1

**Fee: Rs 8800** [Apply Now](#)

## Clinical Genomics & NGS Essentials

Clinical genomics in healthcare and precision medicine

[rare disease](#) [oncology](#) [pharmacogenomics](#)

NGS assay types and indications

[targeted gene panels](#) [exome and genome](#) [RNA seq for fusions](#)

Samples, consent and pre analytics

blood and saliva FFPE tissue consent and privacy

### Session 2

Fee: Rs 11800 Apply Now

## Clinical Lab Ecosystem & Workflows

Stakeholders and roles in clinical genomics services

clinicians molecular lab bioinformatics and QA

Pre analytic, analytic and post analytic workflow

ordering to sample receipt wet lab and dry lab steps  
turn around time

Quality systems touchpoints

CLIA and CAP mindset SOPs and checklists LIMS  
overview

### Session 3

Fee: Rs 14800 Apply Now

## Reporting, Tumor Boards & Decision Support

Anatomy of a clinical genomics report

indication and methods variants and evidence  
impression and comments

Risk communication and uncertainty

pathogenic vs VUS residual risk family testing

Tumor and genomics boards

case presentation actionability tiers follow up plans

### Session 4

Fee: Rs 18800 Apply Now

## Mini Capstone: Service Blueprint & Case Review

Design a sample to report workflow for a chosen use case

**Theory + Practical**

Define roles, handoffs and QC checkpoints

**swimlane workflow** **checklists** **audit trail basics**

Mock report and data standards snapshot

**HL7 FHIR friendly view** **key fields and codes**

**handover to informatics team**