

Knowledge Bases & Curation Workflows (CIViC, ClinGen, OncoKB) — Hands-on

Create audit-ready clinical variant knowledge that powers reporting and CDS. This hands-on module covers the end-to-end curation lifecycle—literature scouting, data extraction, variant normalization and mapping, evidence grading across CIViC/ClinGen/OncoKB, conflict resolution, QA/metrics, versioning and change logs—with automated pipelines and interoperable exports (APIs/FHIR).

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[Session 1](#)

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Foundations & Schemas

Variant representation & mapping

[HGVS/RefSeq/Ensembl](#) [GA4GH VRS \(overview\)](#)
[transcript alignment pitfalls](#)

Schemas & ontologies

[diseases/phenotypes \(MONDO/HPO\)](#) [drugs/targets](#)

(RxNorm/ChEMBL) evidence models

Knowledge base landscape

CIViC/ClinGen/OncoKB roles ClinVar crosswalks
actionability frameworks

Session 2

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Evidence Curation Workflow

Scouting & triage

alerts & watchlists trial registries priority rules

Extraction & grading

effect sizes & endpoints levels of evidence conflict
logging

Curation tools & SOPs

CIViC submissions/moderation ClinGen playbooks
OncoKB annotations

Session 3

Fee: Rs 32720 Apply Now

Automation, QA & Dashboards

Pipelines & normalization

VEP/ANN & MyVariant.info reference liftover VRS
harmonization (overview)

Quality metrics & review

inter-annotator agreement evidence freshness SLAs
QC dashboards

Traceability & audit

provenance & links review states & sign-off CAPA

hooks

Session 4

Fee: Rs 38320 Apply Now

Versioning, APIs & Publishing

Change management & releases

changelogs & semver **model cards** **backfills & retractions**

Distribution & integration

REST/GraphQL APIs **bulk exports (CSV/JSON)** **FHIR**
Genomics bundles

Governance & sustainability

roles & permissions **community contributions**
roadmaps & KPIs