

Assess IQ 2.0

The Facility Edition

Watch the whole facility. Score every trainee.

50

Skids

500

Trainees

1

Control Room

Keep the operator view simple.

The system underneath does the hard work in silence.

What the operator sees

One screen: a facility map, a leaderboard, and a scoreboard. A supervisor can walk in and understand who is where, who needs help, and which trainee is ready to certify.

What AssessIQ does automatically

Multi-camera fusion, identity re-ID, procedure recognition, step scoring, live violation alerts, spotlight auto-cut, and 500 signed evidence packs by end of day.

From batch grading to live facility observation

Same assessment engine. A much larger operating model.

v1 • Batch

One clip. One person. One score.

- Trainee records a video on a phone
- Uploads it and waits
- Gemini compares to Gold Standard with 5-pass consensus
- Returns pass/fail and a step scorecard
- Supervisor reviews flagged items

v2 • Facility

Whole facility. Every trainee. Live.

- Cameras observe 50 skids continuously
- Edge boxes detect when a procedure starts
- Identity re-ID keeps each trainee tracked
- Live scoring runs with incremental consensus
- Control room, spotlight, and audit pack all update automatically



THE PIPELINE

11 steps. 2 phases.

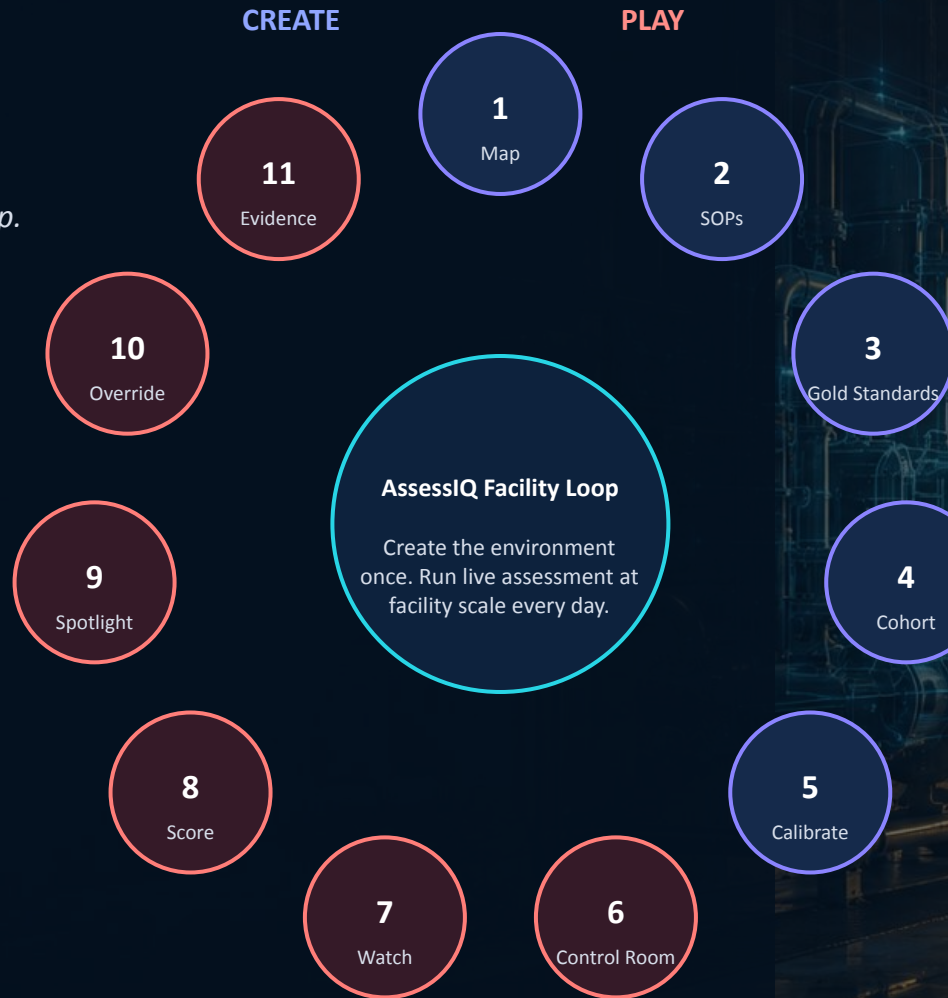
From an empty floor plan to 500 signed evidence packs, guided by AI at every step.

Create Mode

Set up the facility, define the procedures, and align the cameras before the first run.

Play Mode

Observe every skid live, score each step, intervene when needed, and publish evidence automatically.



Map the facility

Create Mode · What does the facility look like?

CREATE MODE · STEP 1

What does the facility look like?

Every assessment starts with a usable site map: where the skids are, where the cameras sit, and how trainees move through the space.

Auto-generate from BIM/CAD

Import the building model so skids and walls land in place automatically.

Drag-and-drop floor plan

Use a web editor to place skids on a floor image in minutes.

Walk-around scan

Capture the room with phone LiDAR and photogrammetry in about 10 minutes.

Import prior site

Reuse a sister-facility layout as the starting template.

Define the SOPs

Create Mode · What procedures will be assessed?

CREATE MODE · STEP 2

What procedures will be assessed?

Each SOP becomes a scorecard: step-by-step, criticality-weighted, versioned, and ready for live observation.

Import existing SOP

Parse Word or PDF procedures into structured steps automatically.

Choose from library

Start from prebuilt templates such as LOTO, PPE, hot work, or confined space.

Generate from description

Tell the system the task and regulator, and let AI draft the procedure.

Author from scratch

Use a step editor with criticality and evidence rules built in.



Capture Gold Standards

Create Mode · Who shows the right way?

CREATE MODE · STEP 3

Who shows the right way?

An expert performs each procedure once so the system can extract the reference pattern that everyone else is measured against.

Single-camera capture

An expert runs the procedure at any skid using the current v1 setup.

Multi-camera ceremonial capture

Record body, hands, and spoken callouts in one fused session.

Import prior recording

Use existing training footage and parse it into step evidence automatically.

Aggregate top performers

Blend the best real runs later to refine the Gold Standard.



Enroll the cohort

Create Mode · Who are the trainees, and how does the system know them?

Who are the trainees, and how does the system know them?

Up to 500 people can move across one facility. The camera network needs a reliable way to reacquire each trainee at every skid.

Badge / QR marker

Lowest-cost and most reliable identity anchor on hard hat or vest.

Face enrollment

A check-in photo enables facial re-ID where consent allows it.

Uniform color + number

Large back numbers stay readable at long range.

Hybrid identity

Use badge plus face as the default for resilient reacquisition.



Calibrate the cameras

Create Mode · How do 200 cameras act like one system?

How do 200 cameras act like one system?

Multi-camera fusion, edge boxes, and identity baselines get tuned once. After that, the facility behaves like a single assessment instrument.

Fusion calibration

Combine ceiling view for body pose with shoulder view for hand precision.

Edge box per skid

Detect relevant activity locally and forward only the important 90-second clips.

Identity baseline

Log each trainee's badge and face and set the re-ID confidence threshold.

Bandwidth and latency

Design for facility reality before the first live cohort starts.



Control Room Goes Live

Play Mode · Where does the supervisor see everything at once?

Where does the supervisor see everything at once?

The live operating surface is a single control-room wall: every skid, every status pip, every violation worth attention.

Wall-of-monitors UI

A browser-based 4K grid that scales from 12 tiles to 50-plus.

Mobile supervisor view

Same data on a phone or tablet for walking the floor.

Multi-supervisor mode

Split the facility into zones when more than one reviewer is on shift.

Read-only audit view

Compliance and regulators can observe without touching the workflow.



AI Watches Every Skid

Play Mode · How does AI know who's doing what, where?

How does AI know who's doing what, where?

Continuous segmentation and re-ID do the hard plumbing so the rest of the system can behave like a live assessor.

Activity segmentation

Detect when a trainee starts SOP-A and cut the right clip automatically.

Identity re-ID

Keep the same trainee record intact as they move across skids.

Multi-cam fusion

Fuse body pose and hand precision into one step-level view.

Tri-modal capture

Observe DO, SAY, and CHECK signals for richer evidence.



Step-Level Scoring

Play Mode · How is each step scored fast and reliably?

How is each step scored fast and reliably?

AssessIQ gives fast feedback during the run, then escalates to fuller verification whenever confidence drops or stakes rise.

Live mode

Run one to two passes with roughly two-second latency per step.

Auto-escalate

Kick into full five-pass review when confidence is borderline.

End verification

Recheck the whole procedure before the evidence pack locks.

Weighted scoring

Critical steps matter more than low-risk ones.



Leaderboard + Spotlight

Play Mode · How does the supervisor catch what matters in real time?

How does the supervisor catch what matters in real time?

The wall serves two jobs at once: it ranks the cohort and it surfaces the exact moment that deserves intervention.

Live leaderboard

Sort by top performers, slowest operators, or biggest improvers.

Spotlight auto-cut

Jump the wall to the right camera when a violation is detected.

Cohort heatmap

Expose which step fails most often across the full trainee population.

Search and locate

Ask where Maria is or who is on skid 12 right now.



Coaching + Override

Play Mode · Can the system coach in the moment while a human keeps control?

PLAY MODE · STEP 10

Can the system coach in the moment while a human keeps control?

Practice mode guides. Certification mode stays silent. Supervisors can approve, reject, or annotate any AI decision.

Practice nudges

Deliver guidance through tablet by default, then earpiece or AR as upgrades.

Certification mode

Observe silently, lock evidence, and preserve witnessability.

Supervisor override

Human review is always available and fully logged.

Gold Standard refinement

Learn from reviewed decisions to improve the reference model.



Evidence Pack

Play Mode · What does the customer get at the end of the day?

What does the customer get at the end of the day?

Not a dashboard. A complete set of audit-grade evidence packs, signed, timestamped, and ready for downstream systems.

Per-trainee pack

Clip, scorecard, Gold Standard version, signoff, and hash chain in one record.

Cohort report

Pass rate, step heatmap, time-to-competency, and safety violation log.

Compliance vault drop

Publish to S3, SharePoint, or a regulatory portal automatically.

Privacy gate

Honor retention and access rules by jurisdiction.

One facility. 500 trainees. One operating loop.

Create once, observe continuously, publish evidence automatically.

From an empty floor plan to signed audit packs, guided by AI at every step.



50
Skids

500
Trainees

1
Supervisor

500
Evidence Packs

From training facility to evidence factory

The value is not just speed. It is operating leverage plus audit coverage.

100× Throughput

Move from one trainee per clip to 500 trainees observed simultaneously with the same supervisor count.

100% Audit Coverage

Every trainee, every step, every day, packaged into signed, regulator-ready evidence packs.

Live Feedback Loop

See the violation while it happens, ping the supervisor, and queue the right clip immediately.

Auto Gold Standards

Use real facility data to keep the reference model improving instead of drifting stale.