

EON Permit IQ

Why the living permit is valuable on its own — and how it becomes the lesson and the live guide.



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1. Abstract

Permit-controlled work is already written down. A certificate. A drawing. A list of isolation points. A second signature on another page. Then the pack goes in the pack. The training center never sees that job. The field never gets a guide for that isolation. That is how a permit fails to cover the work, and how nobody can prove the isolation was verified.

This paper argues two things, in that order. First: Permit IQ is worth buying before Genesis, Field IQ, or Assess IQ ever open. The drawing talks to the list. The form is easier to fill. The second check is proved. Blanks stay visible. One living record replaces a dead pack. Second: once that permit is alive, it becomes the procedure for Genesis, the live AR guide for Field IQ — with no 3D model required — and the live interrupt for Assess IQ. The training-center skid and the morning permit finally meet.

2. The problem, in plant language

Isolation is a story split across paper. One person writes the job. One person draws the pipes and numbers the valves. One person copies those numbers onto a register. Later, someone signs that the plan is fine. Someone else is supposed to check that each point was actually isolated. Later still, someone signs that it was put back. The drawing and the list do not talk. Handwriting hides a tag. A blank looks like nothing. A signature on page two is not proof that point 7 was verified.

Training does not fix this. The center teaches “isolation” in general, once in a while, on a skid that is not this morning’s job. The real permit is written the morning of the work. The two never meet.

3. Permit IQ on its own

A digital copy of a yellow form is not a product. Permit IQ is the living story of this job.

3.1 The drawing talks to the list

Every numbered point on the isolation drawing is one row in the register. Select the point. See the row. Select the row. See the point. You cannot lose a valve between the map and the list. That is the first reason to buy.

3.2 Easier to fill

Write the job once. Location, equipment, reason, energy points, methods, and checks share the same facts. Nobody re-copies a tag from a sketch onto a grid and gets it wrong. Shared fields carry forward. That is faster. It is also safer, because the map and the list cannot silently disagree.

3.3 Proof the second person checked

The person who applies an isolation and the person who verifies it are different roles. The check is recorded against the point, with a time and a role. You can show a supervisor. You can show an investigator. A scribble on another page cannot do that. This is the product answer to “nobody verified the isolation.”

3.4 Blanks stay visible

A missing check is a hole. It does not look like a pass. A point cannot be shown as verified before it is shown as applied. A point cannot be restored while an exception is still open. Bulk “verify all” is not allowed. Silence is not consent.

3.5 One living record

Search. Filter. Export. Print a marked summary. The record survives. The paper pack dies in a drawer. Learning teams can see a real job even before anyone practices it. Operations can show what was planned and what was checked.

3.6 The customer keeps the process

Permit IQ does not invent a new isolation religion. It connects the certificate, the drawing, the register, the blinds, the plan check, the second check, the restore, and the handback. Authorized people still decide. The software does not declare equipment safe. It does not issue a permit.

4. Position on the Intelligence Flywheel

Permit IQ is product one in the Work Loop. It digitizes the plan, the controls, and the authority. It does not replace Genesis, Field IQ, or Assess IQ. It feeds them.

- Permit IQ — this morning’s isolation, as one living story.
- Genesis — that permit is the procedure. Rehearse it on a training skid.
- Field IQ — that permit is the live guide on the real hardware.
- Assess IQ — that permit is the standard. Live interrupt if the step is wrong.
- Compound IQ — later, the gap between plan and performance becomes a lesson.

5. The multiplier loop

5.1 Genesis — the permit is the procedure

Once Permit IQ holds this morning’s job, Genesis can turn it into a scored rehearsal. The worker practices this isolation, now, on a training skid — not next year’s course. Genesis needs a 3D model of the location. If a P&ID is available, the geometry can be built quickly. If it is not, EON

Studio or EON Universal Mirror Direct can create it without a long project. The wait is not the point. The point is that the lesson is this job, not a generic isolation class.

5.2 Field IQ — no 3D model

Field IQ does not wait for a twin. Hold the phone against the real skid. It recognizes the equipment — this is the compressor, this is the pump — matches those symbols to the permit, and shows the next move in augmented reality on the actual hardware. You get guidance while you do it. You see what happens before it happens. That is live Genesis on the real skid, without building the 3D model first.

5.3 Assess IQ — live interrupt

Assess IQ watches the same job against the same permit. If the step is right, it continues. If the step is wrong, it interrupts now. The training center and the field finally share one standard: this morning's isolation.

Customers who have already bought a training center with many skids have a hidden problem. They train isolation on the skid. Then the real permit is written the morning of the job, on paper, and the two never meet. Permit IQ is how they meet. We do not ask the learning team to own the permit system. We ask them to pull operations into the room. Paper in. Competence out.

6. What is real today

A working demonstration is live. A visitor can load a ready-made isolation example, walk eight steps, click a numbered point, see the matching register row, demonstrate apply, independent check, exception, restore, and handback, and export a marked record. Hosted sessions stay private to the visitor. The demonstration is not an authorization to work.

7. Safety boundary

User-visible rule statements stay on approved source text or stay silent. Official artifacts require an attested human decision. Field evidence binds to the job, the checkpoint, the device, and the sequence. The software does not declare zero energy. It does not restore equipment. Authorized people still sign.

8. Closing

Buy Permit IQ because the drawing talks to the list, the form is easier, the second check is proved, blanks stay visible, and the record lives. Keep Permit IQ because the same permit becomes the lesson on the training skid and the live guide on the real hardware. That is how the morning job and the practice skid finally meet.