EON ASSIST IQ

The Al-Native Standard for Operational Readiness & Validation.

- o **The Mission:** To transform subjective, unscalable human assessment into a precise, automated science.
- The Core Logic: We leverage Vision Al to capture the "Gold Standard" from a single expert video and use it to infinitely scale assessment across the global workforce.
- The Promise: "One Expert. Infinite Assessments." We replace the bottleneck of 1:1 trainer oversight with an "Always-On" AI evaluator that ensures 100% compliance visibility.



AI-ASSISTED & AUTOMATICALLY ASSESSED (EON ASSIST IQ)



UNASSISTED / TRADITIONAL ASSESSMENT

AI-ASSISTED & AUTOMATICALLY ASSESSED (EON ASSIST IQ)

THE SCALABILITY BOTTLENECK & SUBJECTIVITY TRAP

- The Disconnect: Traditional training relies on manual documentation that varies by author, creating inconsistent standards across facilities.
- The Constraint: Expert trainers are physically limited. They can only evaluate one trainee at a time, causing scheduling delays and reducing capacity.
- The Risk: Human evaluation is inherently subjective. Two different supervisors may grade the same safety violation differently, leading to "Safety Compliance Gaps" where critical errors are missed.
- The Result: A lack of verifiable data.
 Paper-based audit trails fail to capture the reality of execution for regulatory compliance.

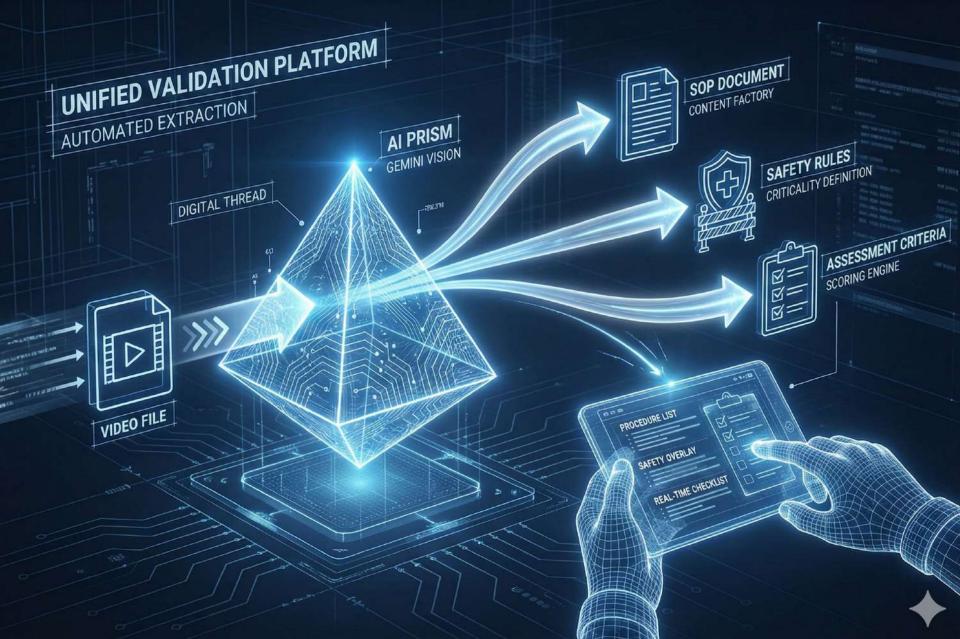




A UNIFIED VALIDATION PLATFORM

- Automated Extraction: Assist IQ ingests raw video from experts and uses Computer Vision to extract timestamped steps, tools, and PPE requirements automatically.
- static video into a structured "JSON Standard"—a machine-readable procedure that defines the "Correct," "Incorrect," and "Critical" states of operation.
- Tri-Modal Workflow: The platform seamlessly connects the Content Factory (SOP creation), the Assessment Engine (Trainee testing), and the Review Dashboard (Human oversight) into one continuous loop.

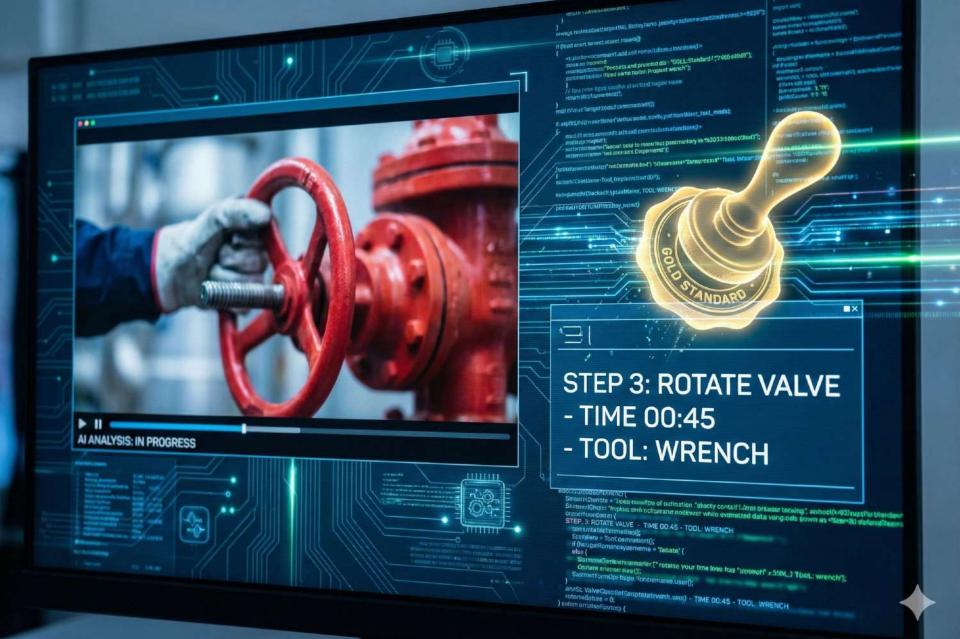




FROM VIDEO TO STANDARD: THE "GOL STANDARD" ENGINE

- The Innovation: Manually writing SOPs is slow and error-prone.
 Assist IQ solves the "Documentation Overhead" by watching the work being done.
- Semantic Extraction: Using Vision Al, the system analyzes the expert's movements to identify specific actions, timing (MM:SS), and safety precautions.
- Criticality Definition: It allows the expert to tag specific moments as "Critical" (Safety-Sensitive) or "Minor" (Quality), creating a weighted logic for future assessments.

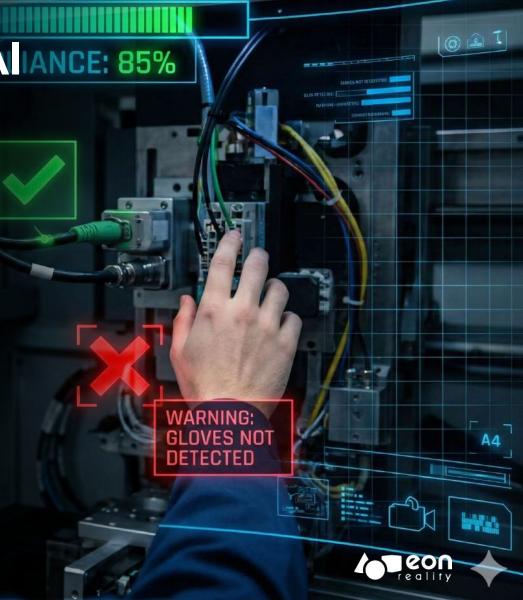


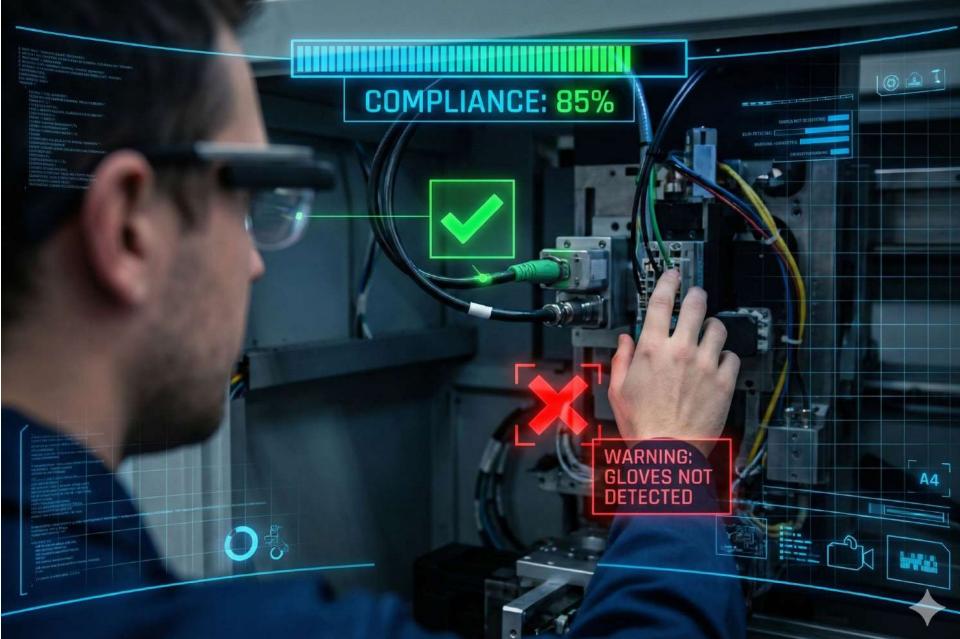


PRECISION GRADING: THE "Alance: 85% EVALUATOR"

assessments via browser or mobile, anytime, anywhere. The AI evaluates them in parallel, removing the scheduling bottleneck.

- Step-by-Step Verification: The system compares the trainee's video against the Gold Standard frame-by-frame, marking steps as CORRECT, INCORRECT, or MISSED.
- Safety Violation Detection: It acts as an unblinking safety officer, instantly flagging missing PPE or dangerous deviations with critical severity warnings





QUANTIFYING COMPETENCE: THE SCORING LOGIC Weighted Intelligence: Not all

- Weighted Intelligence: Not all errors are equal. The scoring algorithm assigns 25 points to Critical steps, 10 to Important ones, and 3 to Minor details.
- Automatic Fail Triggers: A "Pass"
 (≥90%) is not just a score—it
 requires zero critical safety
 violations. Any critical miss triggers
 an immediate FAIL, regardless of the
 total score.
- Status Logic: The system triages
 results into PASS, FAIL, or
 NEEDS_REVIEW, ensuring human
 supervisors only spend time on
 borderline cases







THE INTEGRITY SUITE: SUPERVISORY OVERSIGHT

- The Review Queue: Supervisors
 access a dashboard to review
 "NEEDS_REVIEW" assessments,
 watching the specific clip where
 the AI flagged an issue.
- Override & Justify: The human expert remains the final authority. They can override AI decisions but must provide documented justification, maintaining the integrity of the audit trail.
- Test Library: To ensure trust, the "Test Library" allows QA teams to challenge the AI with intentional variations to validate and improve its detection rates over time.





SECURITY & SOVEREIGNTY:
THE TECH STACK gital Vault

- The Engine: Powered by the advanced multimodal capabilities of Gemini Vision AI (gemini-2.0-flash) for unrivaled video understanding.
- Secure Storage: All video data is stored in secure object storage with signed, time-limited URLs (7-day expiry) to prevent unauthorized access.
- Full Auditability: Every session is tracked with Worker ID, consent logs, and timestamped decisions, stored in a transactionally consistent PostgreSQL database.





THE OPERATIONAL IMPERATIVE

 The Shift: We are moving from "Subjective Observation" to "Objective Intelligence."

o The Impact:

- Scalability: Unlimited parallel assessments.
- Consistency:

 Standardized AI
 evaluation across all
 sites.
- Speed: Time to competency reduced from days to minutes.
- The Next Step: Deploy the EON Assist IQ platform to capture your first "Gold Standard" today







Dashboard

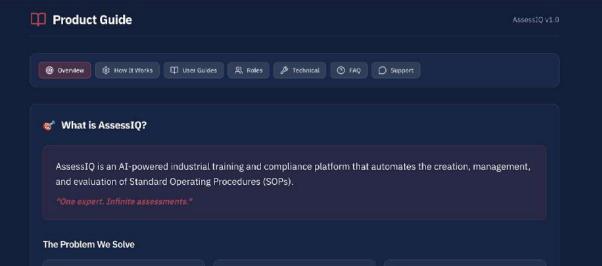
Analysis

Assess Trainee

A Test Library

Product Guide







Safety Compliance Gaps

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Documentation Overhead

Scalability Bottleneck

Expert trainers can only evaluate one trainee



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Audit Trail Gaps

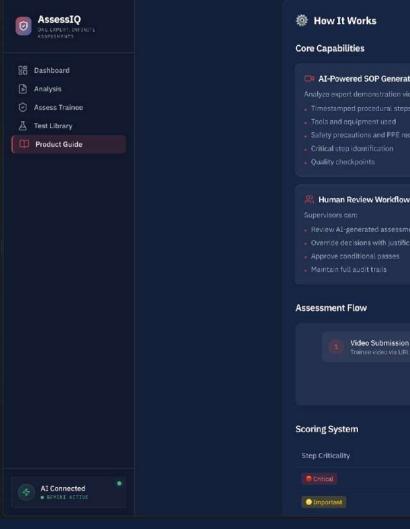
Subjective Evaluations

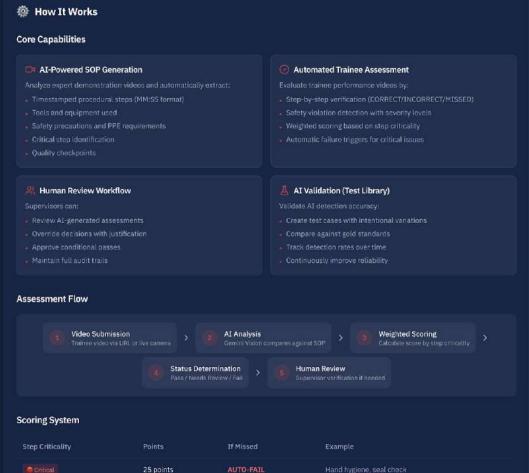
the detailed records needed for regulatory

The AssessIQ Solution

AssessIQ addresses these challenges by automating procedure extraction from expert videos and providing consistent, objective,

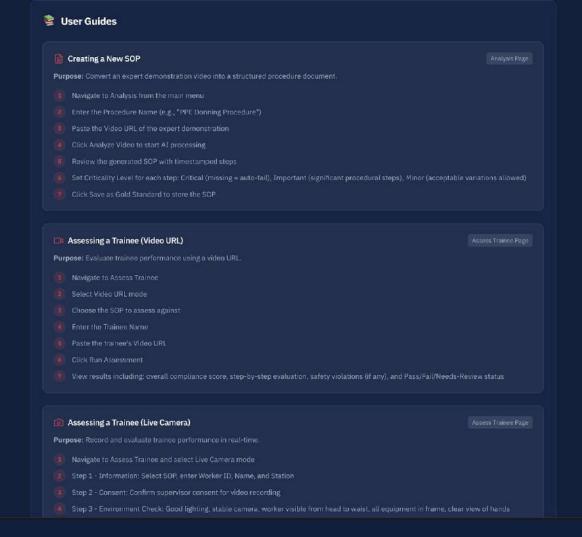


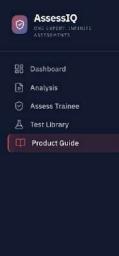




10 points







AI Connected



Manager / Administrator

- Creates and manages Gold Standard SOPs from expert video
- Reviews and approves SOP step criticality settings
- Monitors overall pass rates and compliance trends
- Manages test library for AI validation

Supervisor / Reviewer

- Reviews assessments flagged for human judgmen
- Overrides AI decisions when appropriate
- Documents review decisions for audit trail
- Approves or fails borderline assessments

🤵 Trainee / Worker

- Records assessment videos via camera or provides video UR
- Views personal assessment result
- · Receives immediate feedback on performance
- Can re-attempt assessments after training

Quality Assurance

- Creates and manages AI validation test cases
- Identifies gaps in AI detection capability
- Recommends improvements to SOPs or AI prompts

Technical Specifications

Technology Stack

Component	Technology
Frontend	React 18, TypeScript, Tailwind CSS, shadon/ui
Backend	Node.js, Express, TypeScript
Database	PostgreSQL with Drizzle ORM
AI Engine	Google Gemini Vision AI (gemini-2.0-flash)
Video Storage	Replit Object Storage (Google Cloud)
Authentication	Session-based with Passport,is



BB Dashboard

Analysis

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Data Model

SOPs

Assessments

Reviews

/ Test Cases

™ Sessions

Security & Compliance

- Video Storage: Secure cloud storage with signed URLs (7-day expiry).
- Session Tracking: Worker ID and consent logging for all recordings
- · Audit Trail: All assessments, reviews, and decisions permanently recorded
- Data Integrity: PostgreSQL with transactional consistency
- · Access Control: Session-based authentication for supervisors



Product Guide

AI Connected

Frequently Asked Questions

What video formats are supported?

AssessIQ supports YouTube URLs, Google Cloud Storage URLs, and direct video URLs (MP4, WebM). For live camera capture, videos are recorded WebM format.

How long does AI analysis take?

Typically 30-90 seconds depending on video length. The system shows a progress indicator during analysis

Can a trainee retry a failed assessment?

Yes. For live camera assessments, workers get up to 3 attempts per session, with the best score counted. Supervisors can also allow additional ratings.

What happens if a critical step is missed?

Missing any step marked as "Critical" results in automatic failure, regardless of the overall score. This ensures safety-critical procedures are never skipped.

How do I validate AI accuracy?

Use the Test Library to create test cases with known variations. Run comparisons and track detection rates to measure and improve AT reliability over time.

Are assessment videos stored permanently?

Videos are stored with signed URLs that expire after 7 days. Organizations can configure longer retention periods based on compliance requirements

Can supervisors override AI decisions?

es. Supervisors can approve, conditionally approve, or fail any assessment, with documented justification for audit trail purpose

What browsers are supported?

AssessIQ works on Chrome, Firefox, Safari, and Edge, For live camera capture, a browser with WebRTC support is required (all modern browsers).







Analysis

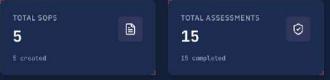
Assess Trainee

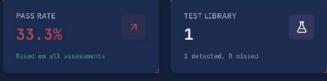
A Test Library

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Overview of recent procedure captures and compliance.





Assess Trainee

□ Capture Expert Video

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B Dashboard

Analysis

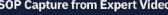
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Procedures > Capture SOP from Video

Procedure Name

Expert Video URL

SOP Capture from Expert Video







No SOP Generated Yet



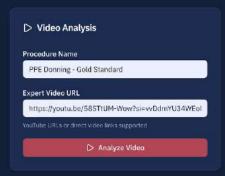
△ Test Library

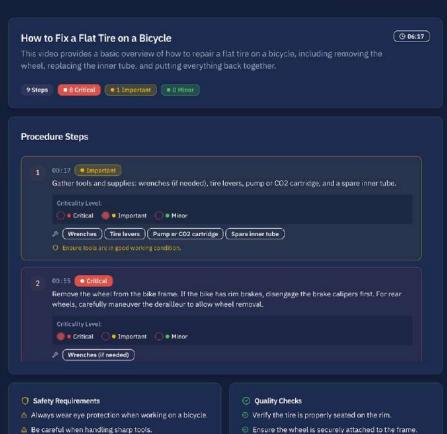
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Procedures > Capture SOP from Video

SOP Capture from Expert Video





Check brake function before riding.

A Ensure the bike is stable before beginning any repairs.

A Do not overinflate tires.

Save as Gold Standard





Analysis

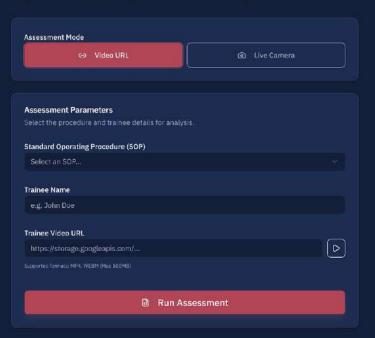
Assess Trainee

☐ Test Library

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Assess Trainee

valuate trainee performance against Gold Standard SOPs using Gemini Vision AI.







BB Dashboard

Analysis

Assess Trainee

Test Library

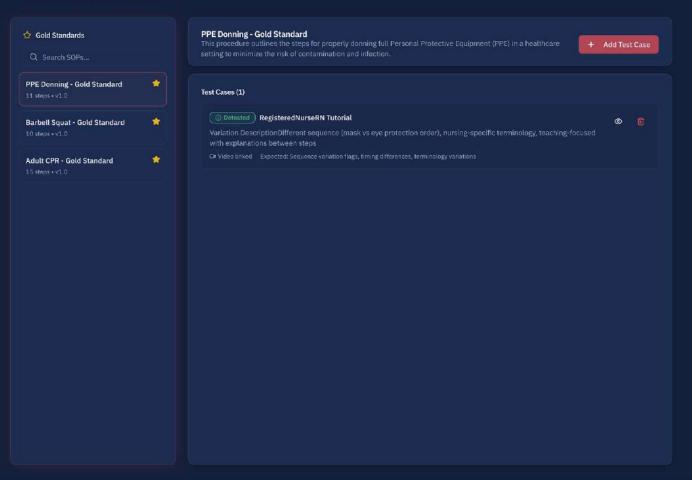
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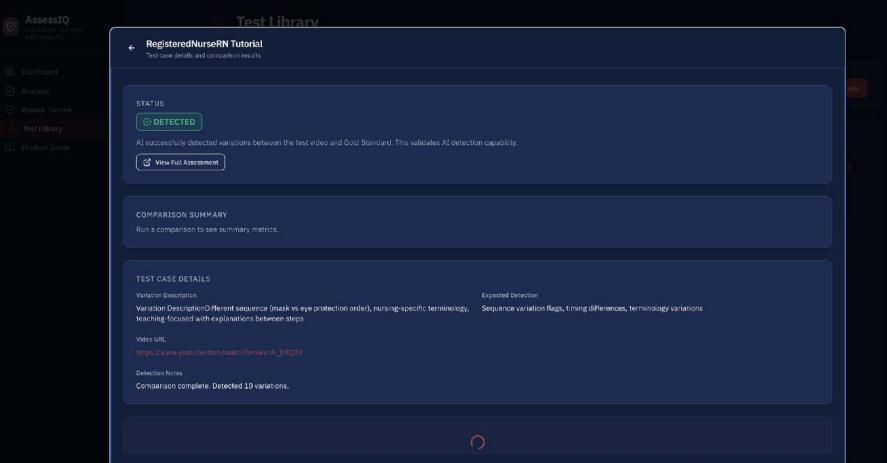
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Manage test cases for AI detection validation

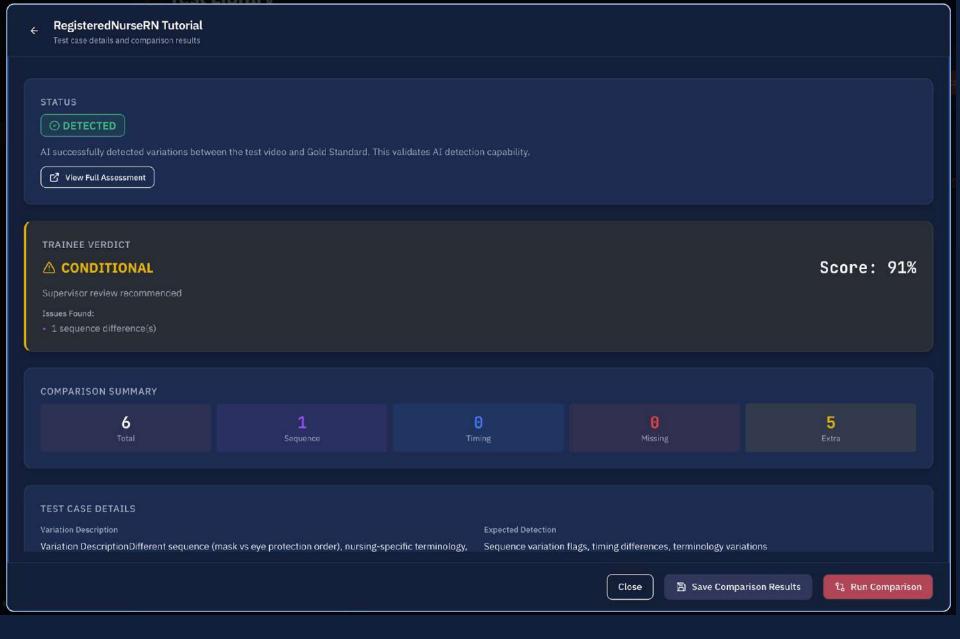






Close





RegisteredNurseRN Tutorial

TEST CASE DETAILS

Variation DescriptionDifferent sequence (mask vs eye protection order), nursing-specific terminology, teaching-focused with explanations between steps

Sequence variation flags, timing differences, terminology variations

Detection Notes

Comparison complete. Detected 10 variations.

ზ STEP-	BY-STEP COMPARISON	(0	etected
Status	Step Description	Gold	Test
Match	Perform hand hygiene for 15 seconds, applying product to your hands.	00:05	00:52
Match	Rub hands together, including between and around fingers, back of hands, and fingertips.	90:10	00:52
Match	Put on gown.	00:31	00:54
Match	Hold the gown so that the opening faces you. One arm at a time, put on the gown so that the opening is at the back. Pull the gown up over the shoulders.	00:38	00:54
Match	Tie the neck and waist strings so that the gown overlaps.	00:55	01:06
	Put on mask. Sequence is different, mask is put on before eye protection	01:27	01:10

Close



Save Comparison Results ใง Run Comparison

RegisteredNurseRN Tutorial

Match	Rub hands together, including between and around fingers, back of hands, and fingertips.	00:10	00:52
Match	Put on gown.	00:31	00:54
Match)	Hold the gown so that the opening faces you. One arm at a time, put on the gown so that the opening is at the back. Pull the gown up over the shoulders.	90:38	00:54
Match	Tie the neck and waist strings so that the gown overlaps.	00:55	01:00
	Put on mask. Sequence is different, mask is put on before eye protection	01:27	01:16
Match	Position the mask with the nose piece on top and place the loops of the mask over each ear. Stretch the mask to fit under your chin.	01:31	01:1
Match	Bend the nose bar over the bridge of your nose so that the mask fits over your nose and mouth.	01:42	01:2
Match	Put on gloves.	01:50	03:47
Match	Wear gloves that fit well. Pull the glove on over the fingers of one hand, taking care not to puncture the glove by pulling it too hard.	91:53	03:4
Match	Pull the cuff of the glove over the cuff of the gown sleeve so that it fits snugly.	02:04	03:5
Extra ste Extra ste Extra ste Extra ste	ional Observations up: Eye protection is put on at 03:36 up: Hand hygiene is performed again at 03:46 up: The video includes a respirator fit test at 02:44 up: The video includes instructions on how to apply a respirator at 01:38 up: The video includes instructions on how to apply a face mask at 01:11		



Close