

Cusmat's Immersive Skilling Platform for Equipment Maintenance



To help Enterprises Improve their

Productivity



Efficiency



Safety



At Cusmat

We leverage innovative immersive technologies to help Industries bridge the skill-gap.



VR Skilling System (Software + Hardware)

Equipments covered



Enterprises leveraging our solution

VOLVO

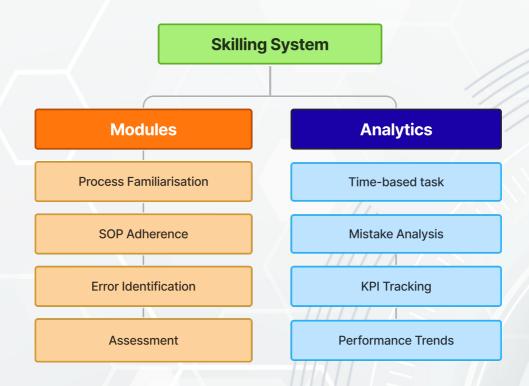








How it works?



Embedded Analytics - Dashboard

KPI Configured to Identify skill gap

- SOP Adherence
- Time taken to perform a task
- Tool engagement
- Error list

ask KPI	Task Value	Boolean KPI	Boole
flow much time user takes to reach the area after instruction.	22.29 sec	The user reached the highlighted area or not.	
low much time user takes to grab the socket wrench after instruction.	3.81 sec	The user grabbed the socket wrench or not.	V
low much time user takes to attach the socket after instruction.	22.69 sec	The user attached the socket or not.	
low much time user takes to open the bolt after instruction.	10.45 sec	The user opened the bolt or not.	V
low much time user takes to keep the bolt on tool cart after instruction.	6.82 sec	The user kept the bolt on tool cart or not.	
low much time user takes to keep the socket wrench on the tool cart after instruction.	3.49 sec	The user kept the socket wrench on tool cart or not.	V
low much time user takes to click the button after instruction.	27.48 sec	The user clicked the button or not.	
low much time user takes to keep the cover on tool cart after instruction.	6.29 sec	The user kept the cover on tool cart or not.	☑
low much time user takes to keep the gasket on tool cart after instruction.	4.90 sec	The user kept the gasket on tool cart or not.	V

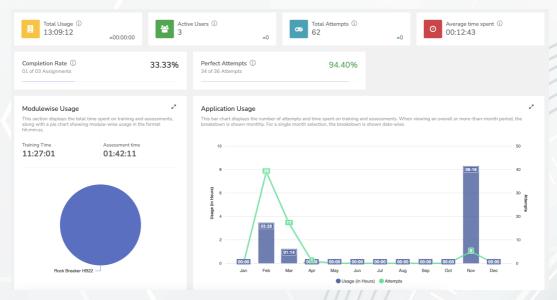
Problems solved

- MTTR and MTBF
- Downtime
- Skilling new operators
- SOP adherence

Metrics Impact

- Repair time
- Tool engagement
- Error rate

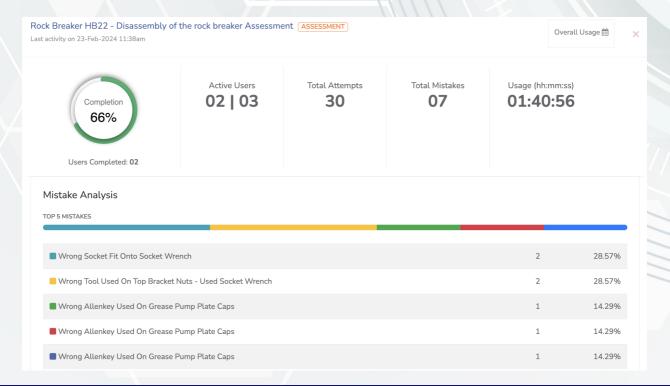
How Embedded Analytics Engine works?



Providing a centralised view and summary of all active users, modules, application usage, and performance trends

Detailed user-report based on pre-defined KPIs

- Comparative reports can be generated for multiple users to compare their strengths and weaknesses.
- Providing visibility into performance trends and tracking improvements in user skills over time.
- A scoring system that can be configured based on technical skill/process Key
 Performance Indicators (KPIs) that aid in tracking operator skills and their impact on
 operations (Productivity, efficiency and safety) and business



Simulation for all kinds of Scenarios





Visual and Pre-Ops inspection

- Chassis inspection
- Operator cabin inspection
- Under bonnet inspection
- · Inspection of damages, flaws, cracks
- Safety related inspection while machine is operating
- SOP of Pre operation inspection





Engine Maintenance

- Introduction to Engine
- Top end removal: Valve covers, Distributor, valley pan.
- · Valve disassembly: Rocker arms, cylinder head.
- Camshaft removal
- Bottom end disassembly: Oil Pump, Connecting rod/piston, main bearing, crankshaft.
- Lubrication
- Testing Levels





Repair and Servicing

- Introduction to the specific components, systems, and functions
- the complete 250-hour maintenance schedule, including all checks, replacements, and adjustments.
- Hands-On Practice with Maintenance Procedures
- Safety Awareness and Compliance:
- Advanced Maintenance Techniques:
- Performance Assessment and Feedback:
- Awareness of Environmental Considerations:



