Manufacturing AI Readiness Assessment

Manufacturing skill	Key question	Applications / Data Sources	Data Collection	Score
Production Planning	Where is your production schedule?	ERP / MES / APS / Excel / Paper	Manual / Automated	/10
Production Monitoring	Where do you track actual production?	MES / SCADA / Excel / Paper	Manual / Automated	/10
Downtime Analysis	Where do you record machine downtime?	MES / CMMS / SCADA / Excel	Manual / Automated	/10
Predictive Maintenance	Where is your machine maintenance history?	CMMS / EAM / IoT Platform	Manual / Automated	/10
Quality Analysis	Where are your quality inspection records?	QMS / MES / ERP / Excel	Manual / Automated	/10
Energy Optimisation	Where do you monitor energy consumption?	EMS / SCADA / IoT Platform	Manual / Automated	/10
Inventory Intelligence	Where do you track raw material and WIP?	ERP / MRP / WMS / Excel	Manual / Automated	/10
Delivery Prediction	Where do you track order progress?	ERP / APS / MES / Excel	Manual / Automated	/10
Root Cause Analysis	Where do you correlate production, quality and machine issues?	MES / QMS / CMMS / SCADA	Manual / Automated	/10
Operational Reporting	Where do you consolidate factory performance reports?	ERP / MES / BI Tools / Excel	Manual / Automated	/10
Total				**/100**

Scoring Criteria (per skill)

Data availability and accessibility	Score
Manual records / Paper-based	**0**
Digital records, but no API access	**5**
Digital applications with custom / non-standard API access	**8**
Standard applications with accessible APIs	**10**

What does your total score tell you?

Overall Score	Assessment
80 – 100	Strong AI-ready data foundation
60 – 79	Good digital foundation, but integration gaps exist
40 – 59	Partially digitised
20 – 39	Significant digital gaps
0 – 19	Fundamental digitisation required