

Hazardous Area Equipment Checklist for Oil & Gas Facilities

1. Equipment Identification	Yes/No	Notes
Equipment type identified (e.g. camera, sensor, motor switch)	<input type="checkbox"/>	
Manufacturer and model recorded	<input type="checkbox"/>	
Hazardous area classification marked on equipment	<input type="checkbox"/>	
ATEX / (ECEX / UL certification present	<input type="checkbox"/>	

Tip: Always verify certifications against the installation location's Class, Division, or Zone.

2. Installation Requirements	Yes/No	Notes
	<input type="checkbox"/>	
Equipment installed in the correct hazardous area zone	<input type="checkbox"/>	
Proper mounting surface used (stable, vibration-free)	<input type="checkbox"/>	
Correct height and orientation for cameras and sensors.	<input type="checkbox"/>	
Approved conduit, fittings, and wiring used	<input type="checkbox"/>	
Proper grounding and bonding applied	<input type="checkbox"/>	
Cable entry points sealed to maintain explosion proof integrity		

Tip: Refer to manufacturer installation manuals for precise mounting and wiring requirements.

3. Electrical Safety Checks	Yes/No <input type="checkbox"/>	Notes
All wiring rated for hazardous location	<input type="checkbox"/>	
Conduit and junction boxes explosion-proof rated	<input type="checkbox"/>	
Circuit loads within manufacturer limits	<input type="checkbox"/>	
Proper grounding verified	<input type="checkbox"/>	
Surge protection installed where required	<input type="checkbox"/>	
Tip: Regularly inspect wiring and grounding connections as part of preventive maintenance.		
4. Operational Readiness	Yes/No <input type="checkbox"/>	Notes
Equipment powers on and operates as intended	<input type="checkbox"/>	
Cameras provide clear, unobstructed views	<input type="checkbox"/>	
Sensors and alarms trigger correctly	<input type="checkbox"/>	
Communication with control systems verified	<input type="checkbox"/>	
Environmental conditions within equipment specifications (temperature, humidity, dust)	<input type="checkbox"/>	
Tip: Conduct periodic functional tests to ensure equipment reliability.		
5. Maintenance & Inspection	Yes/No <input type="checkbox"/>	Notes
Lenses, screens, and sensors cleaned	<input type="checkbox"/>	
Seals and gaskets checked for integrity	<input type="checkbox"/>	

Signs of corrosion or physical damage inspected	<input type="checkbox"/>	
Firmware and software updated	<input type="checkbox"/>	
Maintenance logs recorded	<input type="checkbox"/>	
Tip: Schedule routine inspections quarterly or as recommended by equipment manufacturers.		
6. Compliance & Documentation	Yes/No <input type="checkbox"/>	Notes
Equipment certificates stored and accessible	<input type="checkbox"/>	
Installation drawings updated	<input type="checkbox"/>	
Inspection records maintained	<input type="checkbox"/>	
Personnel trained on hazardous area equipment	<input type="checkbox"/>	
Emergency shutdown and safety procedures known	<input type="checkbox"/>	
Tip: Keep all documentation ready for regulatory inspections and audits.		
Additional Notes		
<p>Only qualified personnel should perform installation and maintenance in hazardous areas.</p> <p>Explosion-proof cameras, motors, and switches should never be modified in a way that voids certification</p> <p>Regularly review updates to NEC, IECEx, and ATEX standards to ensure ongoing compliance.</p>		