

Biofuel Production Facility Inspection Checklist Template

Feedstock Handling & Storage

Inspects procedures and conditions related to raw material acquisition, storage, and preparation.

Enter a number	
Date of Last Feedstock Delivery	
Enter date	
Feedstock Type	
Corn	
Soybeans	
Sugarcane	
☐ Algae ☐ Other	
Moisture Content (%)	

Observations on Feedstock Condition	
Write something	
Storage Condition Assessment (Visual)	
Good	
Fair	
Poor	
Upload Photo of Storage Area	
1 Unload File	
♣ Upload File	
♣ Upload File	
Pre-Processing Equipment	
Pre-Processing Equipment valuates the condition and functionality of equipment used for initial p	processing of
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Crusher Operating Condition Excellent Good Fair Poor
Observations on Conveyor System
Write something
Last Belt Cleaner Replacement Date
Enter date
Screening Efficiency
Meets Specification
Below Specification
☐ Not Applicable
Conversion/Reaction Process
Assesses the key process steps, safety controls, and efficiency of the conversion process.
Reactor Temperature (Celsius)
Enter a number

Reactor Pressure (Bar)	
Enter a number	
Catalyst Type	
☐ Type A ☐ Type B	
Type C	
Reaction Time (Minutes)	
Enter a number	
Any unusual observations during reaction	
Write something	
Date of Catalyst Change	
Enter date	
Time of Reaction Start	
Time of Reaction Start	

Separation & Purification

Reviews equipment and processes for removing impurities and isolating the biofuel product.

Biofuel Product Purity (%)	
Enter a number	
Distillation Column Efficiency	
High	
Medium	
Low	
Water Content (ppm)	
Enter a number	
Observations on Membrane Filtration Performance	
Write something	
Solvent Recovery System Status	
Operational	
Under Maintenance	
Not Operational	
Last Solvent Change Date	
Enter date	

Quality Control & Laboratory Testing

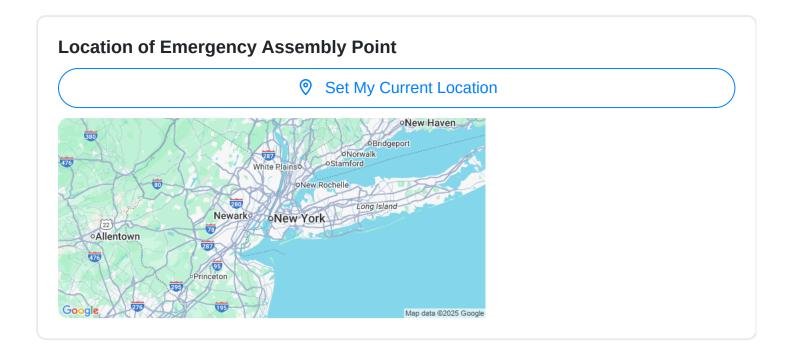
erifies adherence to quality standards and reviews laboratory testing procedures.	
Biofuel Density (kg/m³)	
Enter a number	
Water Content (%)	
Enter a number	
Sulfur Content (ppm)	
Enter a number	
ASTM Standard Used ASTM D6751 ASTM D7762 Other	
Date of Analysis Enter date	
Time of Analysis	
Lab Report (PDF) ① Upload File	

Write something	
Waste Management & Emissi thecks for proper handling of waste materials and of the state of the	
Wastewater Discharge Flow Rate (m³/hr)	
Enter a number	
CO2 Emissions (tonnes/year)	
Enter a number	
NOx Emissions (kg/year)	
Enter a number	
SOx Emissions (kg/year)	
Enter a number	
Waste Storage Compliance (Regulations)	
Fully Compliant	
Partially Compliant	

Waste Streams Handled	
Solid Waste	
Liquid Waste	
Gaseous Emissions	
☐ Sludge ☐ Byproducts	
Dyproducts	
Last Waste Management Plan Review Date	
Enter date	
Itilities (Dower Water Steam)	
Jtilities (Power, Water, Steam)	
valuates the reliability and efficiency of utilities required for biofuel producti	on.
Power Supply Voltage (V)	
Enter a number	
Power Consumption (kW)	
Enter a number	
Water Intake Rate (m³/hr)	
Enter a number	
Steam Pressure (bar)	
Enter a number	

Backup Power Sy	stem Status
Operational	
Standby	
Faulted	
Last Water System	m Inspection Date
Enter date	
Time of Last Stea	m Pressure Test
Notes on Utility P	erformance
Write something	
Safety Syste	ems & Emergency Response te and functionality of safety systems and the preparedness for
Confirms the presenc mergency scenarios	
•	
mergency scenarios	
mergency scenarios Fire Suppression	System Status

Emergency Lighting Functionality Fully Functional Requires Testing Malfunctioning
Last Fire Drill Date
Enter date
Emergency Exit Path Clarity
Enter a number
Emergency Response Equipment Availability
First Aid Kits
Fire Extinguishers
Personal Protective Equipment (PPE) Spill Control Kits
Emergency Response Plan Review Notes
Write something



Equipment Maintenance & Inspections

Reviews maintenance records and inspection schedules for critical equipment.

Last Maintenance Date

Enter date...

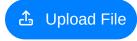
Operating Hours Since Last Maintenance

Enter a number...

Maintenance Work Performed (Detailed Description)

Write something...

Attach Maintenance Records/Reports



Maintenance Type	
Preventative	
Corrective	
Routine	
Next Scheduled Maintenance Cycle (in days)	
Enter a number	
Technician Signature	
	ved in biofuel
erifies adequate training and competency levels of personnel involv	ved in biofuel
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reduction. Number of Personnel Trained (Last 12 Months)	ved in biofuel
erifies adequate training and competency levels of personnel involved and competency levels of personnel invol	ved in biofuel
Primary Training Areas Covered Process Safety Management Emergency Response	ved in biofuel
Primary Training Areas Covered Process Safety Management Emergency Response Equipment Operation	ved in biofuel
Primary Training Areas Covered Process Safety Management Emergency Response Equipment Operation Hazard Communication	ved in biofuel
Primary Training Areas Covered Process Safety Management Emergency Response Equipment Operation	ved in biofuel

Date of Last Refresher Training Enter date
Certifications Held by Key Personnel HAZWOPER OSHA 30 Process Safety Specialist Certified Environmental Professional
Upload Training Records (PDF) ① Upload File