Disaster Management · GS - III

Industrial accidents in heavy manufacturing sectors highlight the importance of occupational safety and disaster preparedness. Examine the major causes of industrial accidents and suggest measures to strengthen industrial safety in India.

EXAM YEAR	PAPER	SUBJECT
DAILY PRACTICE 10/11/2026	GS - III	Disaster Management

MARKS	WORD LIMIT
10	~150 words

Answer Hint

Industrial hazards, equipment failure, human error, maintenance deficiencies, occupational health, safety audits, emergency preparedness, regulatory enforcement, worker training.

Model Answer

Introduction

Heavy industries such as iron and steel manufacturing involve high temperatures, heavy machinery and hazardous materials. Inadequate safety measures can result in serious industrial accidents.

Major Causes

- Mechanical failure and improper equipment maintenance.
- Human error and inadequate worker training.
- Failure to follow operational safety procedures.
- Weak monitoring and ineffective safety audits.
- Poor emergency response arrangements.

Measures to Strengthen Industrial Safety

1. Conduct regular safety inspections and risk assessments.
2. Ensure preventive maintenance of cranes, furnaces and other machinery.
3. Provide mandatory safety training and protective equipment.
4. Install automatic shutdown systems and emergency warning mechanisms.
5. Strengthen enforcement of occupational safety regulations.
6. Establish effective evacuation, medical response and compensation mechanisms.

Conclusion

Industrial development must be accompanied by a strong safety culture. Preventive regulation, technological safeguards and worker participation are essential to minimise industrial disasters and protect human lives.

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