UNIT 02: GRAMMAR

I. Present tenses

Present Tenses	Some Uses	Positive (Affirmative)	Negative	Interrogative
Present Simple	To describe habits or something that we think is more or less permanent,	I/you/we/they + verb He/she/it + verb + s/es/ies Exp: Chemical engineers design processes for manufacturing chemicals.	do/does + not + verb Exp: The environmental engineer does not ignore the impact of human activities on ecosystems.	Do/Does + subject + verb Exp: Do industrial hygiene and safety engineers prioritize worker safety?
Present Continuous	To describe a fixed future plan, or an activity around or at the time of speaking	The present simple of "be" + verb + ing Environmental engineers are monitoring air quality.	Present simple of be + not + verb + ing Chemical engineers are not currently developing software.	Am/Is/Are + subject + verb + ing Are industrial hygiene and safety engineers implementing new safety protocols?
Present Perfect Simple	To describe an activity that happens at a non-specific time in the past	have/has + past participle Industrial hygiene and safety engineers have completed extensive safety audits.	have/has + not + past participle Chemical engineers have not yet explored certain areas of nanotechnology.	Have/Has + subject + past participle Have environmental engineers ever conducted extensive biodiversity studies?
Present Perfect Continuous	To describe an activity started in the past and still happening at the time of speaking, or to describe a temporary situation or habits	have/has + been + verb + ing Example: The chemical engineer has been working on sustainable energy solutions.	have/has + not + been + verb + ing The industrial hygiene and safety engineer has not been neglecting noise exposure assessments.	Have/Has + subject + been + verb + ing Example: How long have environmental engineers been focusing on sustainable city development?

Note: You can use the short form: do not = don't, is not = isn't, has not = hasn't, have not = haven't.

Exercise 1 : Present Tenses in Engineering

Fill in the blanks with the correct form of the verbs in parentheses. Choose from the present simple, present continuous, present perfect simple, or present perfect continuous.

1. Chemical Engineering:

1. Chemical engineers _____ (to design) new processes for manufacturing chemicals.

2. Currently, they _____ (to conduct) experiments in laboratories.

3. They _____ (to complete) numerous projects by the end of the year.

4. Lately, chemical engineers _____ (to work) on sustainable energy solutions.

2. Environmental Engineering:

5. Environmental engineers _____ (to assess) and manage environmental issues.

6. Right now, they _____ (to implement) successful conservation programs.

7. They _____ (to monitor) air quality for the past month.

8. How long _____ environmental engineers _____ (to focus) on sustainable city development?

3. Industrial Hygiene and Safety Engineering:

9. Industrial hygiene and safety engineers _____ (to ensure) workplace safety.

10. At the moment, they _____ (to conduct) risk assessments.

11. They _____ (to complete) extensive safety audits recently.

12. _____ industrial hygiene and safety engineers _____ (to monitor) workplace conditions?

II. Past Tenses

Past tenses	Uses of the Tense	Affirmative Form	Negative Form	Interrogative Form
Past Simple	To describe completed actions or events in the past.	regular verb + ed Chemical engineers designed new processes last year.	did + not + verb Environmental engineers did not ignore water quality assessments.	did + subject + verb Did industrial hygiene and safety engineers prioritize worker safety last month?
Past Continuous	To describe an ongoing action or event in the past.	was/were + verb + ing Environmental engineers were monitoring ecosystem impact.	was/were + not + verb + ing Chemical engineers were not neglecting safety protocols.	was/were + subject + verb + ing Were industrial hygiene and safety engineers implementing new safety protocols in the past?
Past Perfect Simple	To describe an action completed before another action in the past.	had + past participle Industrial hygiene and safety engineers had completed safety audits.	had + not + past participle Environmental engineers had not achieved a complete habitat restoration.	had + subject + past participle Had chemical engineers collaborated with pharmaceutical companies before?
Past Perfect Continuous	To describe an ongoing action that was completed before another point in the past.	had + been + verb + ing Chemical engineers had been working on sustainable energy solutions.	had + not + been + verb + ing Industrial hygiene and safety engineers had not been neglecting noise exposure assessments.	had + subject + been + verb + ing How long had environmental engineers been focusing on sustainable city development?

Note: you can use the short form: did not = didn't, was not = wasn't, had not = hadn't, … etc.

Exercise 2: Past Tenses in Engineering

Fill in the blanks with the correct form of the verbs in parentheses. Choose from the past simple, past continuous, past perfect simple, or past perfect continuous.

1. Chemical Engineering:

1. Last year, chemical engineers _____ (to design) innovative processes.
2. While working on the project, they _____ (to develop) new materials.
3. By the time we visited, they _____ (to complete) several experiments.
4. Chemical engineers _____ (to focus) on traditional methods before switching to modern approaches.

2. Environmental Engineering:

5. Environmental engineers _____ (to implement) successful conservation programs.
6. Throughout the year, they _____ (to monitor) air and water quality.
7. Before the conference, they _____ (to conduct) extensive biodiversity studies.
8. Environmental engineers _____ (to work) on sustainable urban planning for a few years.

3. Industrial Hygiene and Safety Engineering:

9. Last month, industrial hygiene and safety engineers _____ (to ensure) workplace safety.
10. While conducting risk assessments, they _____ (to discover) potential hazards.
11. Before the inspection, they _____ (to complete) extensive safety audits.
12. Industrial hygiene and safety engineers _____ (to monitor) workplace conditions regularly.

III. Future Tenses

Future tenses	Some uses	Positive (affirmative)	negative	interrogative
Future simple	To describe actions that will happen in the future.	will + verb Chemical engineers will design innovative processes.	will + not + verb Environmental engineers will not ignore air quality assessments.	will + subject + verb Will industrial hygiene and safety engineers prioritize worker safety in the future?
Future continuous	To describe ongoing actions that will happen in the future.	will + be + verb + ing Industrial hygiene and safety engineers will be conducting risk assessments.	will+ not + be + verb + ing Chemical engineers will not be neglecting safety protocols.	will + subject + be + verb + ing Will environmental engineers be addressing sustainability challenges in the future?
Future perfect simple	To describe actions that will be completed before another future action.	will + have + past participle Environmental engineers will have implemented successful programs.	will + not + have + past participle Industrial hygiene and safety engineers will not have addressed certain exposure concerns.	will + subject + have + past participle Will chemical engineers have collaborated with pharmaceutical companies by then?
Future perfect continuous	To describe ongoing actions that will be completed before another future action.	will + have + been + verb + ing Chemical engineers will have been working on sustainable energy solutions for several years.	will + not + have + been + verb + ing Environmental engineers will not have been neglecting sustainable city development.	will + subject + have + been + verb + ing How long will industrial hygiene and safety engineers have been focusing on maintaining safe working environments by the future?

Note: you can use the short form: will = 'll, will not = won't.

Exercise 3: Future Tenses in Engineering

Fill in the blanks with the correct form of the verbs in parentheses. Choose from the future simple, future continuous, future perfect simple, or future perfect continuous.

1. Chemical Engineering:

1. Next year, chemical engineers _____ (to design) innovative processes.
2. At this time next week, they _____ (to work) on a new project.
3. By the end of the decade, they _____ (to complete) groundbreaking research.
4. Chemical engineers _____ (to focus) on traditional methods before exploring new approaches.

2. Environmental Engineering:

5. In the future, environmental engineers _____ (to implement) advanced pollution control measures.

6. Throughout next year, they _____ (to monitor) climate change impact.

7. By the time we check, they _____ (to conduct) extensive biodiversity studies.

8. Environmental engineers _____ (to work) on sustainable city development for a decade.

3. Industrial Hygiene and Safety Engineering:

9. In the coming months, industrial hygiene and safety engineers _____ (to ensure) workplace safety.

10. While implementing new safety protocols, they _____ (to discover) potential risks.

11. By the end of the year, they _____ (to complete) comprehensive safety audits.

12. Industrial hygiene and safety engineers _____ (to monitor) workplace conditions regularly.