

Contents

Unit 1 Innovations

- 4 **1.1 Eureka!**
Inventions
Past continuous and past simple
Present perfect continuous + *for/since*
- 5 **1.2 Smart drilling**
Article on crude oil
Past participial phrase at the beginning of a sentence
- 6 **1.3 Lasers**
How an X-ray machine works
Signals in a lecture: change of topic, refer to a visual, change of speaker

Unit 2 Design

- 8 **2.1 Spin-offs**
Description of barcodes
Present simple and past simple passive
Function: *to* + infinitive; *for* + verb + *-ing*; *that/which*
- 9 **2.2 Specifications**
Design specification of a mobility scooter
Present participial phrases
- 10 **2.3 Properties**
Brainstorming meeting about a building renovation
Technical presentation
Signals in a meeting: inviting suggestions, introducing ideas, praising contributions

Review Unit A

Unit 3 Systems

- 14 **3.1 Product recall (1)**
Narrative of a pollution incident
Present continuous passive
Prepositional/Adverbial phrases to express unlikelihood
- 15 **3.2 Product recall (2)**
News report of a car recall
Linking phrases using relative pronouns and present participial phrases
- 16 **3.3 Controls**
Description of autopilot and windvane control systems
Vocabulary of control systems and their operation

Unit 4 Procedures

- 18 **4.1 Shutdown**
Description of a technological installation
Phrases to describe purpose and cause
- 19 **4.2 Overhaul**
Narrating an industrial accident
Phrasal verbs
- 20 **4.3 Demonstration**
Description of two welding processes
while/as + verb + *-ing* / present continuous for simultaneous actions

Review Unit B

Unit 5 Processes

- 24 **5.1 Causation**
Traditional iron production and pyroelectrolysis
Expressing cause and effect

25 5.2 Stages (1)

Traditional iron production and FINEX steelmaking
Choosing appropriately between active and passive

26 5.3 Stages (2)

Description of aluminium smelting
Describing functions of parts used in smelting

Unit 6 Planning

28 6.1 Risk

Article on the possible effects of earthquakes
Expressing likelihood

29 6.2 Crisis

Plans for dealing with blowouts
Future passive forms

30 6.3 Project

Plans for a nuclear power plant programme
Risk assessment
Future passive forms; comparatives

Review Unit C

Unit 7 Developments

34 7.1 Progress

Product evaluation of a handheld computer
Noun phrases
Revision: tenses and language forms

35 7.2 Comparison

Evaluating two types of touch screen
Comparing and contrasting

36 7.3 Product

System description of fibre optics
Technical versus non-technical terms

Unit 8 Incidents

38 8.1 Missing

Warehousing procedures
News story
Modal + perfect active and passive: *must have been* + past participle

39 8.2 Confidential

Article on computer worms
Indirect questions

40 8.3 Danger

Story of a water pollution incident
Word building: noun, adjective, verb
Certainty in responses: *to some extent*, *definitely not*

Review Unit D

Unit 9 Agreements

44 9.1 Proposals

Port security systems project
Security devices and definitions
Proposals and suggestions

45 9.2 Definitions

Basic and expanded definitions
Generic terms used in definitions: *process*, *instrument*

46 9.3 Contracts

Clauses in contracts
Contract terms: *shall*, *should (= if)*, *otherwise*
Conditionals: *on condition that*, *provided that*, *even if*

Unit 10 Testing

48 10.1 Test plans

Seismic test reports
Hyphenated phrases acting as adjectives; present/past participial phrases
Concision

49 10.2 Test reports

Sections in a test report
Expressions of damage, metal fatigue, failure: *corroded*, *buckled*

50 10.3 Test methods

Non-destructive test methods
Language for chairing a meeting: *Let's start the meeting now*. *That concludes our meeting*.

Review Unit E

Unit 11 Accidents

54 11.1 Investigation

News story of a disaster
Conclusions and recommendations: *should/shouldn't* + passive

55 11.2 Report

Accident investigation report
Third conditional

56 11.3 Communication

Guidelines for effective oral communication
Phrases for assertiveness training: *Can we discuss our action plan now?*

Unit 12 Evaluation

58 12.1 Projects

Evaluation report of a Compressed Air Energy Storage system
Range of forms expressing necessity and purpose

59 12.2 Performance

Appraisal interview
Phrasal verbs

60 12.3 Innovation

Nanotechnology
Material properties
Revision: *could* for present and potential applications

Review Unit F

64 Audioscript

70 Answer key