A short self-study or classroom course (40-60 hours) for engineers who need to use English in the workplace. *Cambridge English for Engineering* develops the communication skills and specialist English language knowledge of engineering professionals, enabling them to communicate more confidently and effectively with colleagues and customers. The ten standalone units cover topics common to all kinds of engineering - including civil, electrical and mechanical - such as procedures and precautions; monitoring and control; and engineering design. Authentic activities - from describing technical problems and suggesting solutions to working with drawings - make the course relevant and motivating. The course requires no specialist knowledge on the part of the teacher and comprehensive teacher's notes are available online. It is also ideal for self-study.
Key Features

• A regular focus on technical and semi-technical vocabulary enables learners to become familiar with and practice using the specialist language they need for work.
• An emphasis on listening and speaking helps learners to develop their communicative ability within this professional field.
## Skills

### UNIT 1
**Technology in use**
- Describing technical functions and applications
- Explaining how technology works
- Emphasising technical advantages
- Simplifying and illustrating technical explanations

### UNIT 2
**Materials technology**
- Describing specific materials
- Categorising materials
- Specifying and describing properties
- Discussing quality issues

### UNIT 3
**Components and assemblies**
- Describing component shapes and features
- Explaining and assessing manufacturing techniques
- Explaining jointing and fixing techniques
- Describing positions of assembled components

### UNIT 4
**Engineering design**
- Working with drawings
- Discussing dimensions and precision
- Describing design phases and procedures
- Resolving design problems

### UNIT 5
**Breaking point**
- Describing types of technical problem
- Assessing and interpreting faults
- Describing the causes of faults
- Discussing repairs and maintenance

## Language

### UNIT 1
- Words stemming from *use*
  - allow, enable, permit, ensure, prevent
- Verbs to describe movement
- Verbs and adjectives to describe advantages
- Adverbs for adding emphasis
- Phrases for simplifying and rephrasing

### UNIT 2
- Common materials
- Categories of materials
  - consist of, comprise, made of, made from, made out of
- Properties of materials
- Phrases for describing requirements
- Compounds of resistant
- Adverbs of degree

### UNIT 3
- Shapes and 3D features
- Words to describe machining
- Phrases for describing suitability
- Verbs and nouns to describe joints and fixings
- Prepositions of position

### UNIT 4
- Views on technical drawings
  - Phrases related to scale
  - Phrases related to *tolerance length, width, thickness, etc.*
- Drawing types and versions
- Verbs for describing stages of a design process
- Verbs and nouns for describing design problems

### UNIT 5
- Verbs and adjectives for describing technical problems
- Words for describing faults and their severity
- Phrases for describing certainty/uncertainty
- Adjectives with prefixes for describing technical problems
- Verbs for describing repairs and maintenance

## Texts

### UNIT 1
- **Listening**
  - GPS applications
  - Space elevators
  - Advantages of a new pump
  - A guided tour
- **Reading**
  - Space elevators
  - Otis lift technology
  - Pile foundations

### UNIT 2
- **Listening**
  - An environmental audit
  - Specialised tools
  - High-performance watches
- **Reading**
  - Materials recycling
  - Regenerative brakes
  - Kevlar

### UNIT 3
- **Listening**
  - A project briefing
  - Electrical plugs and sockets
  - Metal fabrication
  - UHP waterjet cutting
  - Options for fixing
  - Cluster ballooning
- **Reading**
  - Cutting operations
  - Flow waterjet technology
  - Joints and fixings
  - The flying garden chair

### UNIT 4
- **Listening**
  - A drawing query
  - Scale
  - A floor design
  - Design procedures
  - Revising a detail
- **Reading**
  - Superflat floors
  - Queries and instructions

### UNIT 5
- **Listening**
  - A racing car test session
  - Test session problems
  - Technical help-line
  - Tyre pressure problems
  - A maintenance check
- **Reading**
  - Air Transat Flight 236
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**Listening**
- Simulator requirements and effects
- Lifting options
- Hole requirements and forming
- A project briefing

**Reading**
- Mammoth problem

**Listening**
- A safety meeting
- Hazard analysis
- Live line precautions
- Safety training
- Oral instructions

**Reading**
- Live line maintenance
- Helicopter safety on oil platforms

**Listening**
- Intelligent buildings and automation
- Monitoring and control systems
- Electricity demand and supply problems
- Pumped storage hydroelectric power
- Internal reviews

**Reading**
- Industrial process monitoring
- Dynamic demand controls

**Listening**
- Vehicle design and testing
- Water rockets
- Air drop problems
- Moon landings

**Reading**
- A rocket competition
- Chicken cannon

**Listening**
- Wind turbine towers
- Tall structures
- TVG world speed record
- The story of John Paul Stapp

**Reading**
- Wind turbines fact file
- Solar towers
- Transport alternatives
- The Sonic Wind tests
- The rocket sled proposal