



**MC Academy**  
English Language School

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## Engineering English Information Sheet

**Course:** Engineering English

**Entry Level:** Pre-intermediate to Upper Intermediate

**Hours offered:** 5 Engineering English + 15 - 20 hours of General English

**Is this course available online?** Yes

**Which school is this course available at?** MC Academy, Liverpool and MC Academy, Manchester

**Who do I contact to apply:** liv@themcademy.co.uk (LIV) **OR** info@themcademy.co.uk (MCR)

**What is the class size?** 16 students maximum

**Who is this course for?**

### Unit 1: What is Engineering?

- **Topic:** Introduction to Engineering
- **Reading Context:** Magazine article
- **Vocabulary:** design, develop, discipline, engineer, inspect, machine, mathematics, physics, technology
- **Function:** Asking for direction
  - **Activities:**
    - Vocabulary exercises matching words with definitions
    - Reading comprehension questions about the magazine article
    - Role-playing exercises asking for and giving directions within an engineering context

### Unit 2: Shapes

- **Topic:** Geometric Shapes in Engineering
- **Reading Context:** Blog
- **Vocabulary:** arch, architect, cylinder, ellipse, geometric, oval, prism, rectangle, semi-circle, square, vault
- **Function:** Asking about purpose
  - **Activities:**
    - Vocabulary matching and usage exercises
    - Reading blog entries on shapes in engineering design
    - Pair activities asking and answering questions about the purpose of different shapes

### Unit 3: Materials

- **Topic:** Engineering Materials
- **Reading Context:** Bid sheet
- **Vocabulary:** ceramic, coated, concrete, glass, lumber, porcelain, reinforced, stainless steel, steel, textured, tile
- **Function:** Talking about budgets
  - **Activities:**
    - Vocabulary drills focusing on material properties
    - Reading and analyzing bid sheets
    - Simulated budget discussions using specific materials

### Unit 4: Tools

- **Topic:** Tools Used in Engineering
- **Reading Context:** Manual
- **Vocabulary:** clip, drill, pliers, screwdriver, screws, solder, soldering iron, strip, vise, wire stripper
- **Function:** Describing uses
  - **Activities:**
    - Vocabulary exercises identifying tools and their uses
    - Reading manuals and technical guides
    - Writing exercises describing how to use various tools

### Unit 5: Energy

- **Topic:** Concepts of Energy in Engineering
- **Reading Context:** Abstract
- **Vocabulary:** abstract, decelerate, force, G, kinetic energy, potential energy, stopping distance, transfer, work, work-energy principle
- **Function:** Supporting an idea
  - **Activities:**
    - Vocabulary usage in context
    - Reading and summarizing scientific abstracts
    - Group discussions and presentations supporting engineering concepts

### Unit 6: Simple Machines

- **Topic:** Basic Mechanical Devices
- **Reading Context:** Textbook passage
- **Vocabulary:** complicated, fulcrum, inclined plane, lever, leverage, load, pulley, simple machine, wedge, wheel and axle
- **Function:** Giving examples
  - **Activities:**
    - Vocabulary flashcards and quizzes
    - Reading textbook passages and identifying key concepts
    - Exercises giving examples of simple machines in use

### Unit 7: Working with Numbers

- **Topic:** Numerical Operations in Engineering
- **Reading Context:** Guide
- **Vocabulary:** cubed, equals, exponents, hundredths, percent, squared, tenths, thousandths, times, to the -th power
- **Function:** Identifying an error



- **Activities:**
  - Vocabulary and number operations drills
  - Reading numerical guides and manuals
  - Error identification exercises in engineering calculations

## Unit 8: Types of Measurement

- **Topic:** Measurement Systems
- **Reading Context:** Email
- **Vocabulary:** centimetre, feet, gallon, imperial, inch, kilogram, liter, meter, metric, pound
- **Function:** Describing frequency
- - **Activities:**
    - Vocabulary exercises on measurement units
    - Reading and responding to emails
    - Writing exercises describing the frequency of measurements

## Unit 9: The Scientific Method

- **Topic:** Research Methodology in Engineering
- **Reading Context:** Proposal
- **Vocabulary:** control, data, experiment, hypothesis, methodology, observation, problem, procedure, result, variable
- **Function:** Making a suggestion
- **Activities:**
  - Vocabulary and scientific method exercises
  - Reading and analysing research proposals
  - Group work making and presenting suggestions for experiments

## Unit 10: Safety Precautions

- **Topic:** Safety in Engineering
- **Reading Context:** Poster
- **Vocabulary:** accident, burn, fire extinguisher, first aid, glove, goggle, hazard, injury, precaution, prohibited, shock
- **Function:** Asking about causes
- **Activities:**
  - Vocabulary matching and safety drills
  - Reading safety posters and guidelines
  - Role-playing exercises asking and answering about causes of accidents

## Unit 11: Civil Engineering

- **Topic:** Civil Engineering Fields
- **Reading Context:** Job posting
- **Vocabulary:** civil engineer, commercial, construction, infrastructure, land development, municipal, residential, road construction, scale, topographic, water supply
- **Function:** Describing a preference
- **Activities:**
  - Vocabulary and context exercises
  - Reading and analyzing job postings
  - Writing and discussing personal preferences in civil engineering fields



## Unit 12: Chemical Engineering

- **Topic:** Chemical Engineering and Fuels
- **Reading Context:** Newspaper article
- **Vocabulary:** alternative fuel, biodegradable, biodiesel, chemical engineer, diesel, fossil fuel, fuel, non-toxic, petroleum, renewable
- **Function:** Asking for an opinion
  - **Activities:**
    - Vocabulary exercises on fuels and chemicals
    - Reading and summarising newspaper articles
    - Group discussions and opinion-sharing activities

## Unit 13: Mechanical Engineering

- **Topic:** Mechanical Engineering Technologies
- **Reading Context:** Website
- **Vocabulary:** CAD, CAM, CFD, drafting, mechanical engineering, mechanism, pressure vessel, prototype, simulation, stress
- **Function:** Describing limitations
  - **Activities:**
    - Vocabulary usage in context
    - Reading and evaluating website content
    - Writing and discussing limitations of mechanical engineering technologies

## Unit 14: Electrical Engineering

- **Topic:** Electrical Components and Systems
- **Reading Context:** Email
- **Vocabulary:** circuit, circuit board, component, input voltage, integrated circuit, output power, output voltage, power supply, volt, watt
- **Function:** Changing deadlines
  - **Activities:**
    - Vocabulary exercises on electrical terms
    - Reading and responding to emails
    - Role-playing exercises negotiating and changing deadlines

## Unit 15: Aerospace Engineering

- **Topic:** Aerospace Engineering and Technology
- **Reading Context:** Notice
- **Vocabulary:** aircraft, airframe, airworthiness, flyaway value, licensed production, passenger miles per gallon, propellant, ramjet, space vehicle, thrust
- **Function:** Correcting
  - **Activities:**
    - Vocabulary drills on aerospace terms
    - Reading and understanding notices
    - Exercises correcting technical information in aerospace contexts

## Teaching Methods



- **Interactive Lectures:** Introducing new vocabulary and concepts.
- **Group Discussions:** Encouraging collaboration and application of new terms.
- **Practical Exercises:** Reinforcing learning through hands-on activities.
- **Role-Plays:** Simulating real-world engineering scenarios.
- **Projects:** Integrating various skills into comprehensive tasks.

### Assessment

- **Quizzes:** Regular vocabulary and comprehension quizzes.
- **Assignments:** Written assignments on engineering topics.
- **Presentations:** Oral presentations on specific engineering projects.
- **Final Project:** Comprehensive project incorporating course concepts.

This curriculum provides a structured approach to learning English for specific purposes in the context of engineering, with a balance of vocabulary acquisition, practical application, and project-based learning.

**Note:** The course content is flexible and may be adjusted based on participants' needs and the evolving nature of the course.

To enquire about this course please contact [info@themcacademy.co.uk](mailto:info@themcacademy.co.uk) for Manchester and [liv@themcacademy.co.uk](mailto:liv@themcacademy.co.uk) for Liverpool.

**OR**

Complete an application form. And a member of our team will be in touch with you as soon as possible.

