

TechnoPlus

Version 2.0

Englisch

**Teaching and Learning
Business and Technical English
with TechnoPlus English 2.0**

**Christine Sick
Applied Languages
University of Applied Sciences
Saarbrücken**





Overview

1. Institutional background
2. Methodological approach
3. Technical aspects
4. How to use TechnoPlus Englisch 2.0
5. Guided tour
6. Demonstration Engineering Topics: Wind to Hydrogen
7. Demonstration Situations: Presentations
8. The e&mLearning Publisher: How to add your own teaching and learning materials



Institutional background

- The *Hochschule für Technik und Wirtschaft des Saarlandes* is a **University of Applied Sciences** specialising in Engineering, Business Studies and – more recently – Social Sciences.
- The **Applied Languages Team on Campus Alt-Saarbrücken** caters for the teaching and learning of foreign languages in **15 Bachelor and Master programmes** mainly in the area of **Engineering**.
- **Engineering graduates** are expected to have **English language skills** enabling them to operate in an international context.
- As a result, specialised **English** courses have been **integrated as obligatory subjects into the curriculum of all our Engineering courses of studies**.
- The courses are **mixtures of General English, Business English and Technical English** relating to the respective course of studies and preparing students for level B2.



Institutional background

- We **expect students** to be on **level B1** at the beginning of their studies, but **a lot of students tend to be below that level**. We even have **a large number of students** who have **never learned English before**.
- Thus, due to this **wide range of learner biographies**, our **learner groups** are very **heterogeneous**.
- To deal with this situation, we have introduced a **number of measures**:
 - **Online placement tests**
 - **Four-week prep courses** (“Brückenkurse”) in English before the start of the semester
 - Special foreign language learning **counselling service to enhance learner autonomy**
 - **Tutorials** for students who haven’t reached the entrance level yet
 - Use of **computer-assisted language learning programs**
- **In particular, the integration of CALL / e-learning** into the communicative language learning process has proved to be **highly advantageous** for these learner groups.
- Despite the abundance of multimedia Business English programs available on the market, there have **only been a few programs meeting the special needs of engineering students**, who need to acquire skills in both Business English and Technical English.



Methodological approach

- **TechnoPlus Englisch** is based on a **needs analysis** carried out in cooperation with an internationally operating engineering company.
- **Main target group: German learners of English on Level B1** working in or preparing for work in the **engineering field**
- The program follows a **communicative approach** enabling learners to train the **four skills** – reading, listening, speaking and writing – in an integrated way.
- **Combination of Business English and Technical English**
- **BUSINESS ENGLISH: 7 Communicative Situations:**
 - Enquiries
 - Arrangements
 - Negotiating
 - Meetings
 - Order Processing
 - Presentations
 - Applying for a Job
- **TECHNICAL ENGLISH: 23 Engineering Topics** based on authentic texts and videos from various engineering areas training learners in Reading and Video Comprehension
- An additional **Grammar** section
- A program-related **Lexicon** section

TechnoPlus Englisch

2.0



TechnoPlus Englisch



2.0

SITUATIONS

ENGINEERING TOPICS



GRAMMAR



DICTIONARY



About TechnoPlus



Technical aspects

- **Independent interactive self-study program on DVD-ROM**
 - Integration of various types of media, including video
 - Presentation of contents with access to various help tools
 - Links between program sections
 - High level of interactivity (spell-checker, different types of adaptive feedback, extensive error anticipation, multiple solutions)
- **Distance Learning options** catering for the **training of productive skills**
 - In a distance learning setting using a videoconferencing system and e-mail
 - On the Internet or intranet
 - In a classical communicative language learning classroom



How to use TechnoPlus English 2.0

TechnoPlus English can be used in a variety of learning and teaching settings:

- **Self-study** at home
- **Self-study** in a self-study centre at the **university**
- In a **communicative language learning** and teaching setting in a **multimedia language learning laboratory** integrating monitored self-study phases and communicative phases
- In a **blended learning setting** combining self-study at home with Distance Learning phases and communicative language teaching and learning phases in groups at the university or in companies
- To **prepare** for work in the engineering field as well as for tests such as the new **MONDIALE Online Technical English Test**.

TechnoPlus Englisch

2.0



TechnoPlus Englisch



2.0

SITUATIONS

ENGINEERING TOPICS



GRAMMAR



DICTIONARY



About TechnoPlus



The e&mLearning Publisher: How to add your own teaching and learning materials

- Learners want **access** to TechnoPlus English on the **internet** using their own **PCs** or **laptops**
- Learners are increasingly **mobile** and ask for access from their **smart phones**, **tablets** or **e-book readers**
- Learners and teachers want **further Engineering Topics**
- Teachers usually don't have the **time** and **technical know-how** to create their own online interactive teaching and learning materials
- Teachers don't feel like producing the content again and again to **suit** the **various devices** in use: PCs, tablets, smart phones, e-book readers
- **Creating their own online materials** for these different devices **must be**
 - **easy**
 - **fast**
 - **immediate**



emLP: Same content – displayed on various devices

EUROKEY
eLearning Publisher

Title: Hörner Dam - Vocabulary exercises - matching exercise 1

Übungsseite 1 – **Übung und Lösung**

Anleitung: Match the English words with their German equivalents.

Info: Bei dieser Zuordnungsaufgabe sind Sie per Mausklick durch Drag&Drop-Operationen das terminale von deutscher Translations- und Wort auf die korrekte Übersetzung zuordnen. Sie können die angaben in einer und Ausdrucken Ihren deutschen Übersetzungen.

Ordnen Sie: / Aufgaben: **Übungen**

Standardübersetzungen:

Platz: 1/1
Falsch: 0/0
Richtig: 100%

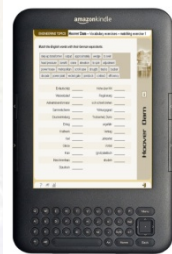
Wird diese Übung korrigiert.
Dann, ist dies in Ordnung.
This was just test by. The correct answer will be
Send in

Test (Übungsseite 1)

| Vorgabe | Maßnahme |
|-------------------|---------------------|
| Erneuerungs | renewable |
| Stromerzeugung | electricity |
| Aufkraftstationen | step-up transformer |
| Stromerzeugung | generator |
| Brück | bridge |
| Kraftwerk | power plant |
| Kraft | energy |
| Strom | power |
| Kraft | energy |
| Stromerzeugung | generator |
| Stromerzeugung | generator |
| Stromerzeugung | generator |



smart phone



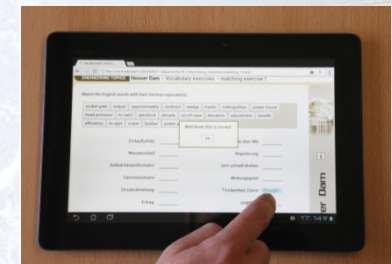
e-book reader



Internet



IWB



tablet



Existing content in CALL4U or Moodle

easily imported by the emLP via a special interface

ENGINEERING TOPICS Hoover Dam – Vocabulary exercises – matching exercise 1

Match the English words with their German equivalents.

penstock tracks to spin output busbar power house crane to swirl head pressure wedge
step-up transformer efficiency scroll case power plant adjustment metropolitan decade contract
wicket gate drought approximately elevation benefit

| | | | |
|-----------------------|-------|---------------------|-------|
| Einlaufschütz | _____ | Höhe über NN | _____ |
| Wasserzulauf | _____ | Regulierung | _____ |
| Aufwärtstransformator | _____ | sich schnell drehen | _____ |
| Sammelschiene | _____ | Wirkungsgrad | _____ |
| Druckrohrleitung | _____ | Trockenheit, Dürre | _____ |
| Ertrag | _____ | ungefähr | _____ |
| Kraftwerk | _____ | Vertrag | _____ |
| Keil | _____ | Jahrzehnt | _____ |
| Gleise | _____ | Vorteil | _____ |
| Kran | _____ | (groß)städtisch | _____ |
| Maschinenhaus | _____ | strudeln | _____ |
| Staudruck | _____ | | |

Hoover Dam

?



Input of new content via Word or online

EUROKEY
EUROKEY Software GmbH

e&mLearning Publisher

Titel: Hoover Dam - Vocabulary exercises - matching exercise 1

----- Übungsseite 1 --- **Drag and Drop** -----

Anleitung: *Match the English words with their German equivalents.*

Info: Bei dieser Zuordnungsübung können Sie per Mausclick durch Drag&Drop-Operationen das textrelevante Vokabular trainieren und sich auf die folgenden Übungen vorbereiten. Es gilt dabei, die englischen Wörter und Ausdrücke ihren deutschen Entsprechungen zuzuordnen.

Globales Video- / Audioobjekt: **Hinzufügen** □

-----Standardrückmeldungen-----

Richtig:

Falsch:

Drittes Mal falsch:

Well done, this is correct.

Sorry, but this is wrong.

This was your last try. The correct answer will be filled in.

----- Text (Übungsseite 1) -----

Vorgabe:

Musterlösung:

| | |
|-----------------------|---------------------|
| Einlaufschütz | wicket gate |
| Wasserzulauf | scroll case |
| Aufwärtstransformator | step-up transformer |
| Sammelschiene | busbar |
| Druckrohrleitung | penstock |
| Ertrag | output |
| Kraftwerk | power plant |
| Keil | wedge |
| Gleise | tracks |
| Kran | crane |
| Maschinenhaus | power house |
| Staudruck | head pressure |



The layout and interactivity manager (LIM)

- Heart of the emLP
- It **automatically adjusts** the **layout** of the imported contents **to suit the size of the various output devices**, such as tablets, smart phones, IWBs, e-book readers.
- It also **automatically adapts** the **functionality/interactivity mode** to **suit the various output devices** (e.g. a matching exercise to be realised as drag&drop, tap&tap or bubbles).
- The graphic design can be **manually adjusted** by EUROKEY or the users themselves.



Existing content under CALL4U or Moodle

ENGINEERING TOPICS
Hoover Dam – Vocabulary exercises – matching exercise 1

Match the English words with their German equivalents.

penstock tracks to spin output busbar power house crane to swirl head pressure wedge
step-up transformer efficiency scroll case power plant adjustment metropolitan decade contract
wicket gate drought approximately elevation benefit

| | | | |
|-----------------------|-------|---------------------|-------|
| Einlaufschütz | _____ | Höhe über NN | _____ |
| Wasserzulauf | _____ | Regulierung | _____ |
| Aufwärtstransformator | _____ | sich schnell drehen | _____ |
| Sammelschiene | _____ | Wirkungsgrad | _____ |
| Druckrohrleitung | _____ | Trockenheit, Dürre | _____ |
| Ertrag | _____ | ungefähr | _____ |
| Kraftwerk | _____ | Vertrag | _____ |
| Keil | _____ | Jahrzehnt | _____ |
| Gleise | _____ | Vorteil | _____ |
| Kran | _____ | (groß)städtisch | _____ |
| Maschinenhaus | _____ | strudeln | _____ |
| Staudruck | _____ | | |

i

Hoover Dam

?



Input of new content via Word or online

EUROKEY
EUROKEY Software GmbH

e&mLearning Publisher

Titel: Hoover Dam - Vocabulary exercises - matching exercise 1

----- Übungsseite 1 --- **Drag and Drop** -----

Anleitung: *Match the English words with their German equivalents.*

Info: Bei dieser Zuordnungsübung können Sie per Mausclick durch Drag&Drop-Operationen das textrelevante Vokabular trainieren und sich auf die folgenden Übungen vorbereiten. Es gilt dabei, die englischen Wörter und Ausdrücke ihren deutschen Entsprechungen zuzuordnen.

Globales Video- / Audioobjekt: **Hinzufügen** □

-----Standardrückmeldungen-----

Richtig:

Falsch:

Drittes Mal falsch:

Well done, this is correct.

Sorry, but this is wrong.

This was your last try. The correct answer will be filled in.

----- Text (Übungsseite 1) -----

Vorgabe:

Musterlösung:

| | |
|-----------------------|---------------------|
| Einlaufschütz | wicket gate |
| Wasserzulauf | scroll case |
| Aufwärtstransformator | step-up transformer |
| Sammelschiene | busbar |
| Druckrohrleitung | penstock |
| Ertrag | output |
| Kraftwerk | power plant |
| Keil | wedge |
| Gleise | tracks |
| Kran | crane |
| Maschinenhaus | power house |
| Staudruck | head pressure |

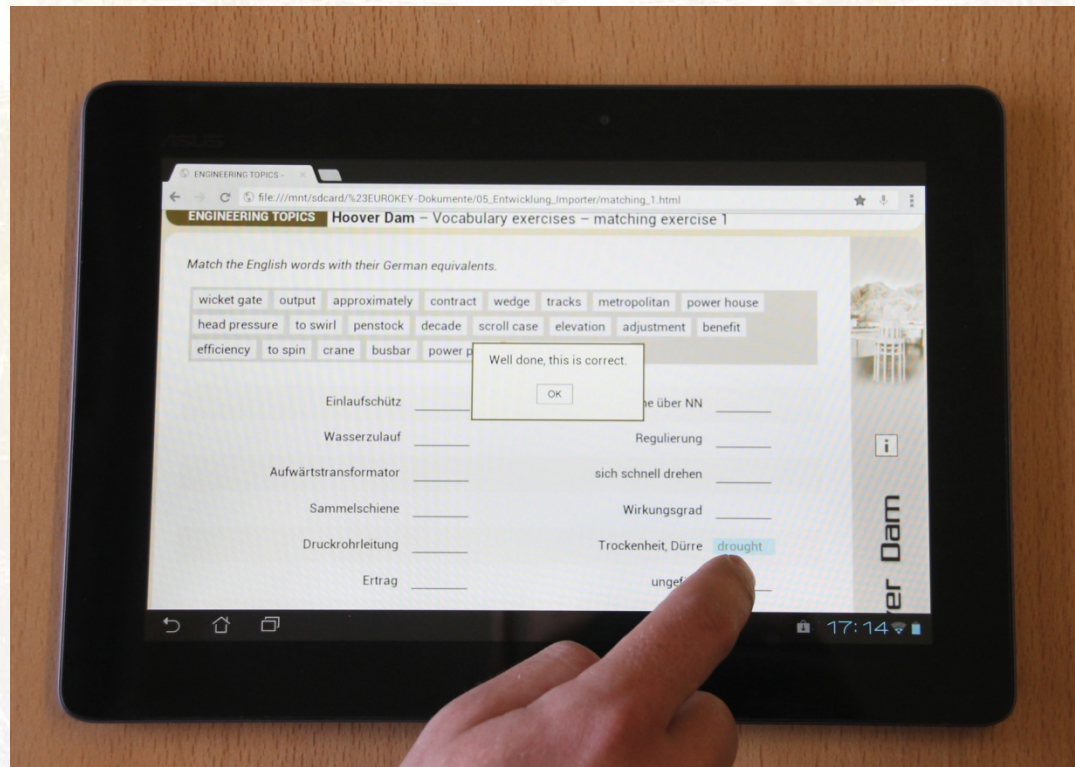


Displayed in a web browser



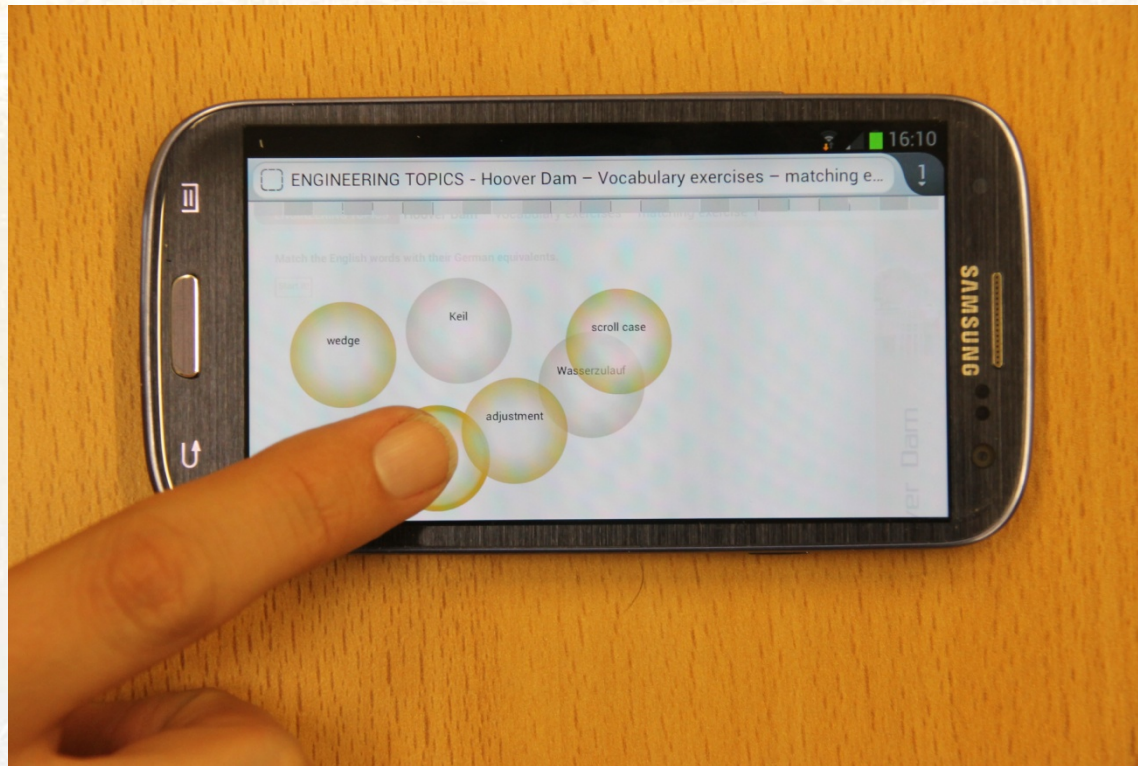


Displayed on a tablet PC / E-book reader



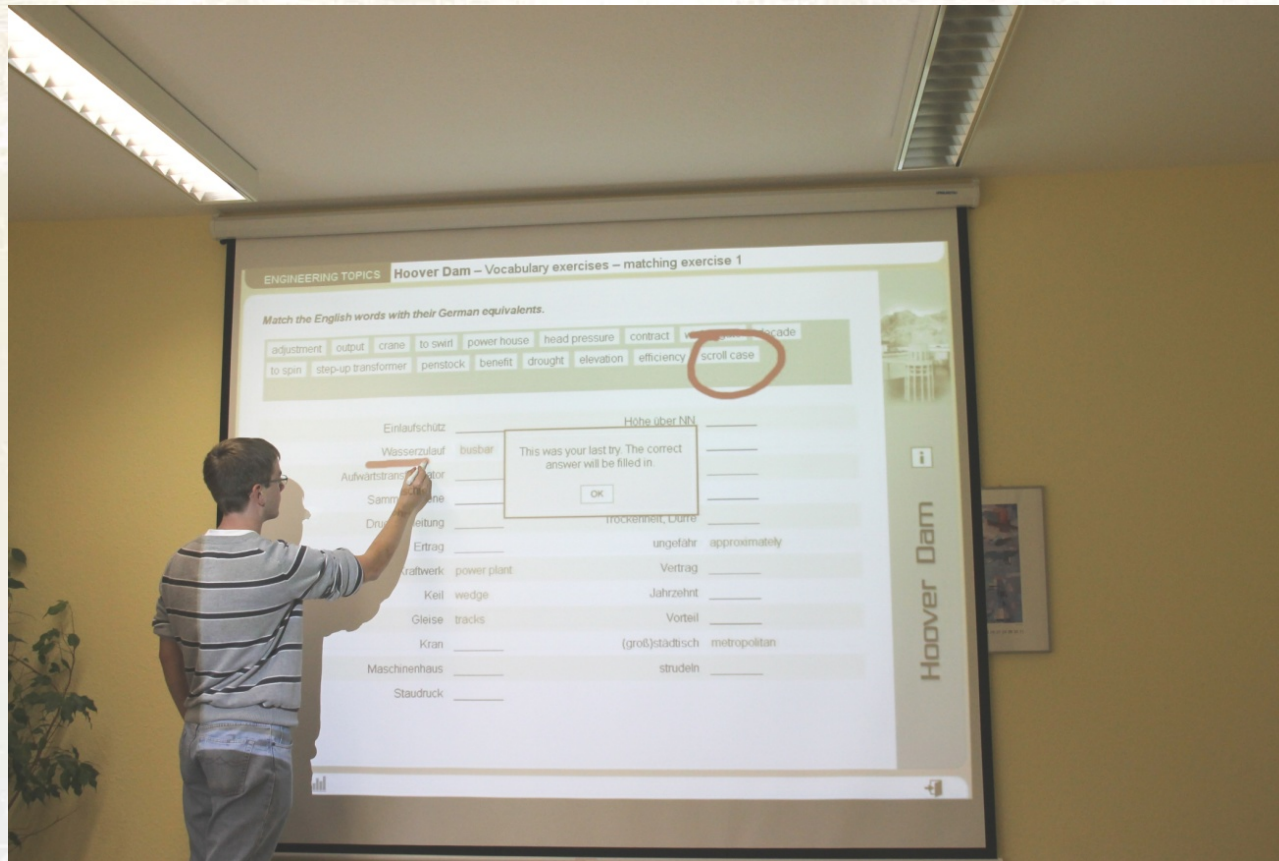


Displayed on a smart phone





Displayed on an IWB





Exercise types supported by emLP

- plain text
- enriched text
- matching exercises
- fill-in exercises
- multiple choice
- true/false
- drop-down exercises



Advantages for the teacher/materials developer

- User-friendly, easy-to-use interface
- No technical/programming know-how required
- Easy and quick input of content via Word or online
- Content will be displayed immediately with the click of a mouse on various output devices
- Automatic adjustment of layout and interactivity mode
- Correction of mistakes in content to be made only once for all devices
- Changes to content to be input only once for all devices



Further information

<http://www.technoplus.info>

Christine Sick

Applied Languages

School of Engineering

Hochschule für Technik und Wirtschaft des Saarlandes / University of Applied Sciences

Goebenstr. 40

66117 Saarbrücken

Tel.: + 49-681-5867-420

Fax: + 49-681-5867-122

E-mail: christine.sick@htw-saarland.de

<http://www.htw-saarland.de/Members/christine.sick>

Ludwig Kuhn

EUROKEY Software GmbH

Fischbachstr. 86

66125 Saarbrücken-Dudweiler

Tel.: 06897 - 790 89 0

Fax: 06897 - 790 89 99

E-mail: technoplus@eurokey.de



Thank you very much for your attention

Any questions???