



### What is Controlled English?

Controlled English (CE) is adapted from the aviation *Simplified Technical English* (STE) standard. The basic dictionary has approximately 1,200 *core* words. The SMART team added semiconductor manufacturing terms for wafer fabrication.

The SMART team assisted the ASML publishing team to expand STE for their very complex \$350 million advanced lithography machines sold to Intel, TSMC and others.

The objective is to simplify the text to prevent expensive downtime and create *easy-to-understand* technical documentation. The **Controlled English** is ideal for cross-cultural training, STEM and global process standardization.

### Key Advantages of Controlled English

- Prevents human error caused by incorrect information.
- Standardizes global procedures and product terminology.
- Assists readers with Limited English Proficiency (LEP)
- Improves skills training and workforce development.
- Assists with STEM education and employee onboarding.
- Creates documentation that is ideal for AI translations.
- Links to existing .xml and .dita publishing tools.
- Meets global standards for semiconductor HSE.

### The Company

Smart Communications, Inc., has 20 years experience in the development of Artificial Intelligence software and Natural Language Processing (NLP). Projects include the development of a **Controlled English** vocabulary for earlier models of ASML TwinScan advanced lithography tools.



The Starter Kit includes one MAXit license, Writer's Guide, Controlled English core and one technical dictionary. The starter kit is ideal for proof-of-concept.

Visit: <https://www.smartny.com/ControlledEnglish.html>



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### What is the MAXit Checker?

An AI-powered publishing tool that has approximately 19,000 rules (*inferences*). **MAXit** uses *edit-in-place* to check English grammar, vocabulary, syntax, .xml and .dita formats.



### Versions of the MAXit Checker

- Microsoft Word (*Add-In for Word*)
- Adobe FrameMaker (*Plug-in for 10.0 to 2022*)
- PTC Arbortext Editor (*Plug-in for 6.x to 8.x*)

Ask us about our API for integration to other publishing systems. Contact [maxit@smartny.com](mailto:maxit@smartny.com) for licenses, services and costs.



An easy-to-use tool to manage the dictionaries for **MAXit**. SMART offers **Text Mining** services for rapid development of wafer fabrication dictionaries.

Example *before* and *after* (MAXit uses color codes for errors):

#### PURPOSE

To **update** the reference temperature and pressure to the **existing nominal** pressure and temperature. When the reference temperature and pressure **differ too much** from the temperature and pressure in the area where the machine is **located**, the feed forward corrections are more than **they should be**. This **might** cause **unstable** focus and red blue values.

(57 words)

#### Adjustment Purpose

To balance and correct the reference temperature and pressure to the standards.

The reference temperature and pressure must meet the standard for the machine at the location. If the values are incorrect, adjust feed forward corrections and the focus for red and blue values.

**CE**

(CE version 46 words)

Complexity | Simplified

