Welcome to TED (Turbine Engine Diagnostics)

Last Updated: 10 January 1997

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What is TED?

TED is a diagnostic expert system to help the M1 Abram's mechanic find and fix problems in the AGT1500 turbine engine. TED was designed and built by the U.S. Army Research Laboratory and the U.S. Army Ordnance Center. Limited fielding was begun in July 1994 to selected National Guard units, with current fielding to 65 National Guard units. Active units of the U.S. Army will receive TED early in 1997. The Marine Corps will also get TED in 1997. Several foreign countries are expected to use TED for their M1 tank maintenance. TED was designed to provide the apprentice mechanic the ability to diagnose and repair the turbine engine like an expert mechanic. The U.S. Army Ordnance Center has estimated that TED will save more than $8 million annually by enhancing the M1 mechanic's diagnostic capabilities.

History of TED

A report was written for the Expert Systems Applications Journal describing the history and purpose of TED. The report was written by the TED TEAM.

Current Version

The current version of TED as of 10 January is Version 1.40b. It replaces Version 1.40a which was produced in early December. Version 1.40b is simply a fix from with corrections to many of the faults that were provided by BETA users of Version 1.40a. Version 2.0 was first expected out this fall. We've instead gone to Version 1.40* which is a BETA version sent out to select National Guard units

and others. This improved version adds significant to the capabilities provided in Version 1.30. It is currently a limited distribution in order to detect as many bugs as possible for correction. We expect to provide the full Version 1.40 sometime in February 1997.

TED Version 1.40* Improvements

Press here if you wish to see the new improvments in TED Version 1.40a.

Obtaining PATCHES or UPGRADES

Press here if you wish to obtain a PATCH or UPGRADE for TED.

Obtaining TED Software

TED software can be obtained by contacting the TED team by either mail, email, phone, or fax.

Other Reference Material

An AI-Based Diagnostic System for the Abrams Tank written for the Expert Systems Applications Journal.
M1 Abrams Tank Turbine Engine Diagnostics written as a U.S. Army Ordance Center and School manual.

Current Team Organization

Team Leader -

Richard Helfman specializes in the Automatic Break Out Box (ABOB) development.

Team Members -


John Dumer is reponsible for the majority of the main TED module called PRESHOP.


Timothy Hanratty is responsible for all of the repair parts and special tools list (RPSTL) module.


Edmund Baur is responsible for the overall TED software logistics, hardware/software integration, and Visual C++ software production.


Holly Ingham is the expert in Visual C++ and Visual Expert software which are the primary tools used in the development of TED's modules.

 Tony Sparks is an E-7 in the U.S. Army and is another TED SME

 Tony Darden is an E-6 in the U.S. Army and is another TED SME.

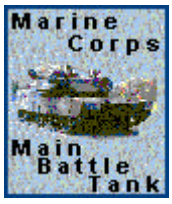
 Ed Smith is an E-6 at the Ordnance Center & School and acts as both a TED SME and instructor for TED training.

Founding Fathers

 LTC Illi was the original Project Manager for the TED program and is now located at Ft. Belvoir.

 Major Malham was another inspirational Project Manager for the TED program and is now located at Ft. Knox.

Other WEB sites



For further infomation Contact the TED TEAM:

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APG, MD 21005-5066 **FAX 410-278-9164**

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