

NGRAIN® VIRTUAL TASK REFRESHER™

SUPPORT INSTALLATION, MAINTENANCE & REPAIR PROCEDURES ANYWHERE, ANYTIME

Based on NGRAIN® commercial-off-the-shelf software, the NGRAIN Virtual Task Refresher (VTR™) is a customized application that leverages 3KO® (3D Knowledge Object™) files—or 3D equipment simulations—to support remote personnel in the performance of operation, maintenance, and repair tasks.

KEY BENEFITS

KEEP KNOWLEDGE FRESH IN THE FIELD

VTR solutions refresh knowledge acquired during classroom training, allowing personnel to practice part removal and replacement procedures in real time, anytime.

ASSIST OPERATORS WITH EXECUTION OF DIFFICULT OR INFREQUENTLY PERFORMED TASKS

VTR solutions improve first-time-right task performance and reduce costly errors by delivering just-in-time training on infrequent or sensitive procedures. Personnel are able to preview and practice procedures virtually, as many times as needed.

UPDATE PERSONNEL WITHOUT REMOVING THEM FROM OPERATION

VTR solutions can be deployed to personnel anywhere, delivering virtual hands-on training on new or updated procedures.

Whether refreshing experts who cannot be removed from operation, or updating junior technicians on a task, VTR solutions deliver much-needed information in a quick-to-comprehend format.



NGRAIN Virtual Task Refresher | Freely explore interactive 3D models of equipment



NGRAIN Virtual Task Refresher | Practice operation, maintenance, and repair tasks

WHY NGRAIN?

NGRAIN makes 3D attainable, while delivering unparalleled real-time virtual hands-on interaction with 3D equipment simulations. With NGRAIN, SMEs can easily update, integrate, and distribute 3D simulations, sending them over the Web to everyday desktop, laptop, and tablet computers. NGRAIN solutions are proven to accelerate training and improve first-time-right performance, transforming novices into experts.

For more information on how the military and defense sectors are using NGRAIN to improve training and optimize operations, contact us at sales@ngrain.com or visit the Resources section of our website at www.ngrain.com/resources.

KEY BENEFITS

LEARNING DESIGN

BASED ON INSTRUCTIONAL DESIGN PRINCIPLES

VTR solutions adhere to industry standard principles of instructional design, ensuring quick comprehension and lasting knowledge retention of information delivered.

EQUIPMENT UPDATES

DELIVER VIRTUAL HANDS-ON EXPLORATION

Personnel familiarize themselves with equipment updates by freely exploring a 3D equipment simulation. Interactions include rotating, moving, and cross-sectioning the equipment and its parts in real time, as well as seeing internal parts in the context of a transparent assembly, and viewing related part information and callouts.

TASK REFRESHER

PROVIDE PROCEDURAL ANIMATIONS

Personnel learn new or updated operation, maintenance, and repair procedures by watching 3D animations that conform to customer technical manuals and specifications. Animations can include callouts and audio, such as voice-over instructions, and can highlight tools to use at any given step.

VTR solutions also provide the option to include videos in industry standard formats, providing additional information to the user.

PROCEDURAL ASSISTANCE

ENABLE REAL-TIME GUIDED PRACTICE

Personnel practice operation, maintenance, and repair procedures by performing them in real time on the 3D equipment simulation, receiving instant feedback (and guidance where needed) on mistakes and successes. Personnel are able to remove and replace parts in real time, and can repeat procedures as needed.

INSTANT USE

DISTRIBUTE WITHOUT INSTALLATION

VTR software can be deployed to personnel via CD-ROM, USB Key, or the Internet. Personnel can run a VTR instantly, without performing any installation. VTR software does not require administrator rights to play, leaves no footprint on computers, and conforms to US Department of Defense Mobile Code policy.

SELF-SUSTAINMENT AND RE-USE

USE SMES TO UPDATE 3D SIMULATIONS

3D equipment simulations delivered with VTR solutions can be updated with NGRAIN® Producer®, an easy-to-use software tool that allows Subject Matter Experts (SMEs) –with less than two days training– to create and update 3D animations and tasks. As procedures change, SMEs can update VTR content, as well as repurpose it for other applications, such as Microsoft® PowerPoint® presentations, Microsoft® Word documents, and Adobe® PDF files.

Microsoft
GOLD CERTIFIED

Partner



SOLUTION PARTNER

MINIMUM SYSTEM REQUIREMENTS

COMPUTERS MUST HAVE THE FOLLOWING OR LATER:

- ▶ Microsoft® Windows® XP Professional Service Pack 3 (SP3), Windows Vista® Service Pack 2 (SP2), or Windows 7 operating system
- ▶ Microsoft® .NET Framework 2.0 Service Pack 2 (SP2 x86 - 32-bit) or .NET Framework 2.0 Service Pack 2 (SP2 x64 - 64 bit)
- ▶ Windows® Media Player 9.0 or later
- ▶ 1024 x 768 display resolution
- ▶ 16- or 32-bit display color depth

Performance is related to computer processor speed and memory and to the complexity of the 3D model. 128 MB of RAM and a 700 MHz processor is the minimum; however, 512 MB of RAM and a 1.4 GHz processor is recommended. Performance will be improved most by adding additional RAM.

nGRAIN®

For more information, or to request a demo, email sales@ngrain.com or call 1.866.420.1781 today.

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