



The Ordnance Corps Quarterly

U.S. Army Combined Arms Support Command

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Chief's Corner

Season's greetings from the home of Ordnance! This is an exciting time of year as we prepare to send our students home on holiday block leave and look forward to some much

needed quality time with family and friends.

It has been a busy first quarter for the U.S. Army Ordnance School and regiment. In October, we conducted a senior leader review of our strategic vision and mission with the goal of ensuring we remain laser-focused on initiatives that build and preserve Army READINESS across our four Ordnance core competencies: maintenance, ammunition, explosive ordnance disposal, and explosives safety.

You may be wondering what impact my focus here at the U.S. Army Ordnance School has on operational Army units around the world. Putting it more plainly, some of you are wondering why I bother sending you a newsletter each quarter! I'd like to take a minute to explain my thoughts.

We do ourselves a great disservice by making distinctions between the Operational Army and the Institutional Army as if there was no concerted effort between the two. This is a misconception that I'd like to amend during my tenure as the 40th Chief of Ordnance. READINESS is the number one priority for our Army. Whether we perform our duties in the field, at the Pentagon, or in the schoolhouse, our combined efforts serve to build a Total Force that is ready to fight tonight and preparing for the future fight. Here's how your Ordnance regimental command team and the exceptional staff at the U.S. Army Ordnance School are contributing to Total Force READINESS.

First, we are your proponent for **training and developing** Ordnance Soldiers and Sustainment leaders across all components and all cohorts – equipping them with the right mix of technical, tactical and leadership skills to win in complex environments. Our training programs and products span the institutional, operational and self-development domains. We develop the programs of instruction and execute the training that prepares new Ordnance Soldiers and leaders to contribute to your organization's mission upon their first assignment. We work closely with the Army Logistics University to develop Professional Military Education (PME) courses such as the Logistics Captain Career Course, the Ordnance Warrant Officer Advanced Courses, and the Ordnance NCO courses. We collaborate with the Combined Arms Support Command on the Combined Arms Training Strategies (CATS) for Ordnance units. Finally, we support the self-development domain through initiatives such as Training with Industry (TWI), civilian credentialing programs, and mobile training apps.



Left: Staff members from the Personnel Development Office (PDO) representing the Ordnance regiment at the U.S. Military Academy Ordnance Branch Week. Right: Lieutenants attending the Basic Officer Leadership Course at Fort Lee, Va., in Physical Training formation.

Second, we are your champions for manning and maintaining **the health of the Ordnance Corps**, across the Total Force, at levels that support readiness. The Professional Development Office (PDO) works diligently to improve accessions across all compos and cohorts and provides professional development guidance across 31 enlisted military occupational specialties, 2 officer areas of concentration, and 9 warrant officer specialties.

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Chief's Corner Continued from page 1



Left: Next Generation Advanced Bomb Suit (left). Above: Next Generation Automatic Tests System (NGATS).

Third, we aggressively promote the evolution of Ordnance capabilities. Granted, capability development is a long process, but the Ordnance regimental team represents your interests as we advocate for materiel systems and force design updates that support your READINESS to fight the future fight.

As the Chief of Ordnance, I am your proponent for all things Ordnance. I do this best by collaborating across the Total Force to sustain readiness through training,

networking and knowledge sharing. To that end, we will expand our quarterly Ordnance Connect LIVE broadcast in order to facilitate broader participation. This broadcast provides a venue to share trends and lessons learned. It also gives me an opportunity to update you on propensity issues that impact the Total Force. I invite you to join this growing network! Check out the advertisement below and watch for Ordnance Connect announcements on our [Website](#) and [Facebook](#). If you can't attend LIVE, or if you want to review a previously broadcasted topic, you can access the video logs posted to the [Ordnance Sustainment Knowledge Network](#).

Finally, all the best to you during this holiday season! Enjoy the time off with your families and loved ones, check on your neighbors, and watch over our troops in your formations. We look forward to everyone's safe return in 2017!

Go Ordnance!

COL(P) David Wilson
40th Chief of Ordnance



OD

**December 1, 2016
1330-1530 ET**

CONNECT

LIVE discussion on current challenges in the field related to Ordnance core competencies that support READINESS.

December topics:

Missed it? Check out our [Audio Logs!](#)

Unit Diagnostic Immersion Program

EOD Pre-Deployment Training

Ordnance Materiel Systems Fielding Update

Ordnance Leader Promotion Trend Analysis

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Regimental Command Sergeant Major Highlights



I say Hooah from the foxhole of the Ordnance Corps!

Team, there were several leadership transitions in the last quarter within the Ordnance Corps, but we are still moving full-speed ahead without missing a beat.

I would like to begin by congratulating all of you who were selected for promotion to Sergeant First Class. To the NCOs that didn't get selected, I encourage you to go back and read the Review and Analysis Memorandum for each Career Management Field (CMF) and prepare yourself accordingly to remain competitive for the next board. One interesting statistic that came out of the promotion review is the vital role broadening assignments played in the selections. Many of the selectees had broadening assignments as instructors at some point in their career. The percentage of selectees with a prior instructor assignment by MOS are: 89B (31%), 89D (90%), 91A (47%), 91M (68%), 91P (86%), 91X (58%), 94D (33%), 94S (100%) and 94W (59%). You can find more statistics and the Review and Analysis Memorandums on the [Army Career Tracker \(ACT\)](#). I am proud of the commitment and dedication of all our Ordnance Corps NCOs. As you all know, we put Safety, Warrior Ethos, Army Values and the Ordnance Core Competencies at the forefront of everything we do.

The weather is changing and that means it's time to prepare for the winter months. Continue to perform a good Preventive Maintenance Checks and Services (PMCS) on your equipment. The roads tend to get bad, so let's make sure we are keeping ourselves and our troops safe by checking and re-checking the DD Form 2977s (Deliberate Risk Assessment) before all missions and prior to dispatching any equipment. Ensure risk decisions are being made at the appropriate level in accordance with ATP 5-19, Risk Management, and that you understand what the established *risk*

tolerance is, which comes from higher command. **Accept no unnecessary risk!** At a minimum, ensure that the required forms are located inside the Equipment Record Folder in accordance with AR 750-1 at the time of dispatching all equipment. Here are a few examples of units that are displaying **Ordnance Core Competencies** throughout the Army.



Left: Soldiers prepare the 2.75-inch practice rockets for transport to the Fort Drum ASP by reinstalling the safety transport clip on the nose of the warhead. Right: A Soldier demonstrates the operation of the 4K forklift in a confined space.

Ammunition and Explosives Safety: At Fort Drum, N.Y., Alpha Company, 277th Aviation Support Battalion, 10th Combat Aviation Brigade established and operated a Forward Arming and Refueling Point (FARP) and Ammunition Transfer Holding Point (ATHP) in support of four AH-64Es (Apache) from 5/101st Aviation Regiment out of Fort Campbell, Ky. The unit safely transported, stored, inventoried and issued 2.75-inch rockets and 30mm rounds. This division exercise, called Mountain Peak 17-01, is instrumental to the commander and enables decisive action by establishing the ATHP and FARP.

Skills-Based Training: SPC Bryan Lopez (below) was recently recognized for his outstanding support to the 3rd Special Forces Group (A) as a Generator Mechanic (91D). SFC Ramon A. Cruz, G4, Electronic Maintenance NCO, wrote in the G4 monthly



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RCSM Highlights Continued from page 4



Georgian Military Soldiers, 18th CSSB Soldiers, and their translator stand in front of an old T35 tank after the conclusion of the Depot tour. (Photo by CW3 Gustavo Lomberamendoza, 317th SMC.)

maintenance newsletter (dated Oct 16): “SPC Bryan Lopez was the first Generator Mechanic from the 3rd Special Forces Group (A) to deploy to Africa in support of operations in SOCFWD-NWA, in 10 years. A graduate of the Family of Special Operations Vehicle (FOSOV) and Tobyhanna Generator courses, SPC Lopez embodies the Critical Skill Enabler (CSE) concept – the idea that a single mechanic can be cross-trained to provide full spectrum maintenance support to the ODAs in many areas, including wheeled vehicle, construction equipment repair, allied trades, [quartermaster]/chemical equipment repair, power generation repair, and utilities equipment repair. While deployed, he worked on various equipment including vehicles, generators, construction equipment, and many others. His exemplary hard work and can-do attitude [have] earned him by-name recognition within the Group.”

Maintenance: CW3 Gustavo Lomberamendoza led a team of noncommissioned officers from the 317th Support Maintenance Company (SMC), 18th CSSB out of Baumholder, Germany in the delivery of vehicle maintenance training to 20 Georgian Soldiers from various units throughout the country of Georgia. Conducting joint operations training with our allied forces builds relationships, develops agile and

adaptive leaders, and shapes the operational environment throughout the European land bases. The Senior Officer of Logistic Operations Planning Division of J-4/8 Georgian Armed Forces coordinated a walkthrough of their Brigade Support Battalion motor pool. This kind of sustainment training improves maintenance and overall equipment readiness. The visit highlighted their T72 tanks as they went through the RESET program. This is a great example of how the logistical exchange demonstrates both countries’ capabilities in support of total life-cycle management processes.

The Georgian Soldiers and the team of NCOs from 18th CSSB shared a common focus on continuously improving unit maintenance programs and procedures.

Electronic Maintenance: Note the important changes for CMF 94. Details on the deletion of MOS 94X and consolidation into MOS 94W, effective October 2016, can be found in DA PAM 611-21. Consolidation of MOS 91G to MOS 94Y is proposed to take effect FY 2019. Implementation instructions will be announced by notification of future change (NOFC) from Army G1.

As always, keep checking the [Ordnance Corps Website](#), the [USAODS Facebook](#) and the [Army Career Tracker](#) for updates. Continue to take advantage of the credentialing programs that are listed on the [Army COOL Website](#). This website will show all the available credentials and how they are funded. Continue to volunteer for broadening assignments such as the Training with Industry (TWI) Program, AIT Platoon Sergeant or Instructor assignments.

Go Ordnance!

CSM Edward C. Morris
12th Regimental Command Sergeant Major



Regimental Chief Warrant Officer Highlights



Greetings friends and colleagues!

In keeping with my recent trend of writing about topics that help Ordnance warrant officers establish themselves as the Army's premier land force technical experts and systems integrators, I thought I would write about the importance of **warrant officer networking**.

Networking is an essential capability that enables us to share information and perspectives, exchange ideas, solve problems, and ensure the Army is prepared to fight and win tonight.

The *art of warrant officer networking* is the creative and skillful cultivation of relationships. As I have said numerous times, the true essence of the Army is its people; therefore, relationships matter. As leaders, we are taught that shared understanding, unity of effort, teamwork, trust, and collaboration are essential to successful completion of critical objectives. What many fail to realize is that their network includes face-to-face relationships, social media acquaintances, peers, subordinates, superiors, and even people you

have never met. Every person you communicate with is potentially a new member of your network!

The warrant officer of today, and more importantly, the warrant officer of the future must be comfortable with ambiguity and possess the ability to solve ill-structured problems. They must understand that increased technological gains and smaller sustainment footprints require a greater network. Networks provide so much more than an opportunity for you to solve your problems - they provide a unique opportunity for you to help others solve their problems!

I still recall the time, as a newly appointed warrant officer, when a mechanic in my organization received a 'no-pay due' for three months straight. He approached me the morning of 'Sergeant's Time Training' concerned about the lack of attention his financial situation was receiving. I took him to the local Personnel Services Battalion and knocked on the door, ignoring the sign that said: "Closed for Sergeants Time Training." When the door opened, I asked to speak to "Chief" who immediately made time for us. Needless to say, the problem was solved that morning because of a special bond that exists among warrant officers.



Warrant Officers share insights with LTG Robert Brown (far left), commander of the Combined Arms Center, during the January 2016 Warrant Officer Solarium held at the Command and General Staff College at Fort Leavenworth, Kan. There were 84 WOs across 11 branches from all 3 compos involved in the 4-day event. (Photo by David Vergun)

Interestingly, I have found that the *art of networking* may actually be somewhat of a lost art. There are a variety of reasons that we have experienced a gradual disintegration of something that the warrant officer community has excelled at since its inception. One reason, in particular, is a misguided perception that warrant officers are competing with each other. That cannot be further from the truth. Don't get me wrong, the nature of our business requires a population of people with the competitiveness and innate drive

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RCWO Highlights

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to win. However, we should seek healthy competition that encourages maximum performance and motivates others to become world-class performers of their craft. If your competitiveness is stopping you from helping a fellow Soldier, regardless of specialty, you should immediately reassess your position and remember that your assistance will strengthen the Army team.

In October 2013, Major General Shapiro wrote an article titled *"The seven deadly sins of sustainment,"* which outlined our responsibility to examine and review actions in terms of effectiveness and efficiency. In the article, Major General Shapiro attributed the logistician's reluctance to share assets and information to... *pride*. Since reading his article, I have seen evidence of the narrow-mindedness he called into question. It still exists across our formation in some regard - not at a level that is alarming - but certainly at a level that requires our attention. The opportunity to share your standard operating procedure, provide technical assistance, or give your last electro-mechanical fuel system off shop stock to assist another organization build and sustain readiness should give you a feeling of accomplishment. What success do you truly achieve

by hoarding information and assets?

In the past, we heard about the *'warrant officer mafia.'* In spite of its somewhat negative connotation, the term underscored the powerful relationship that existed among warrant officers of all branches. We must get past the obstacles that are separating us and focus more energy on creating and nurturing the strong relationships that increase our ability to assist our commands in their effort to accomplish the critical tasks associated with Army operations.

I challenge each of you to build a network of professionals who willingly share information and perspectives, exchange ideas to improve operations, and collaborate to solve ill-structured problems. I ask you these questions: Will you be the warrant officer with tremendous talent who never capitalized on it? Will you be the warrant officer who knew their trade, but never mastered it? Or, will you be the warrant officer who, in uncertain and challenging times, with little to no direction, used their intellect, innovation, commitment and **network** to build and sustain our Army's readiness?

Go Ordnance!

CW5 Richard C. Myers, Jr.
9th Regimental Chief Warrant Officer



During a mentorship event at the Army Logistics University, Fort Lee, Va., Ordnance, Quartermaster, and Transportation Corps warrant officers interacted with Warrant Officer Basic Course students in an effort to help the students build networks before they are assigned to their new organizations. (Photo by CW3 Truman Ward.)

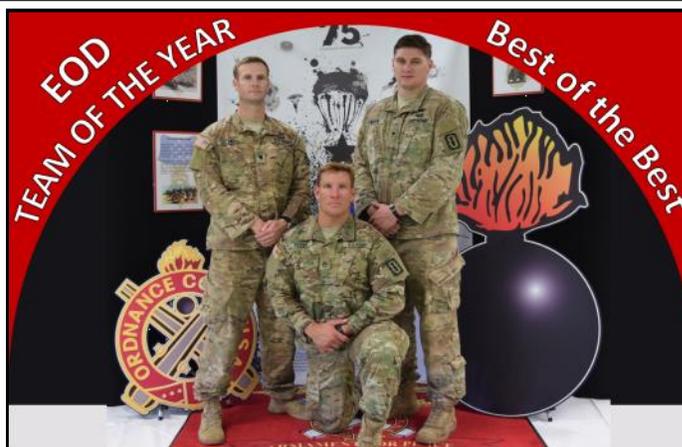


EOD Team of the Year

The Ordnance Corps recently hosted the 2016 Explosive Ordnance Disposal (EOD) Team of the Year (ToY) competition at Fort A.P. Hill, Va. The competition brought together six teams representing commands from across the Army which included FORSCOM, the National Guard, USAREUR, and USARPAC. Each of the teams fought their way through their own company, battalion and brigade level events to earn the privilege of competing at Fort A.P. Hill for the title of “EOD Team of the Year.”

Over the week-long competition, the teams were put through their paces with a series of complex problems designed to challenge their Soldier skills, EOD technical skills, mental agility, and physical endurance. While the competition highlighted the best of EOD, it also provided commanders the ability to assess the level of proficiency their Soldiers have achieved, and it served as an evaluative method to identify future training needs.

All the teams performed commendably, but ultimately, there could only be one winner; this year's honor went to SSG Jason Fedak, SPC Lauren Caldwell, and SPC Blake White representing the 722nd Ordnance Company (EOD), 192nd Ordnance Battalion (EOD), Fort Bragg, N.C. The 192nd Ordnance Battalion (EOD) is a subordinate battalion of the 52nd Ordnance Group (EOD), Fort Campbell, Ky., and the 20th CBRNE Command, Aberdeen Proving Ground, Md.



Representing 722nd Ordnance Company (EOD), from left to right, SPC Lauren Caldwell, SSG Jason Fedak, and SPC Blake White.

MAJ Eric J. Schilling
Deputy Director, TCM-EOD

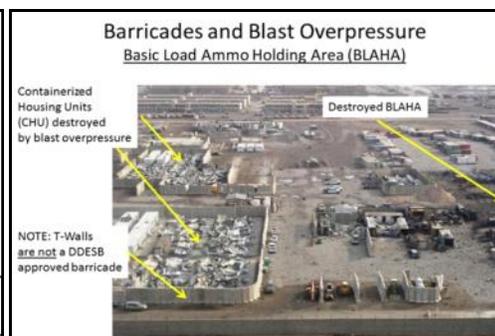
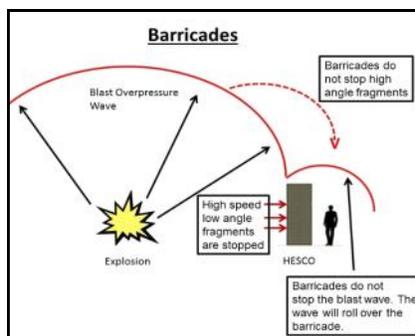


The Myth of Barricades



Properly constructed barricades provide protection from low-angle, high-velocity fragments and may potentially reduce the required separation distances in some DOD explosives safety quantity distance (ESQD) applications. **However, the belief that a barricade can stop ALL of the effects from an explosion is a MYTH!** Barricades, such as HESCOs and T-Walls, do not prevent the blast overpressure wave from rolling over the top of a barrier, nor will they block the fall of high angle fragments and debris. That’s one of the reasons why constructing a barricade between an ammunition storage site and an exposed site may not be sufficient to comply with Army/DOD standards.

Using an unapproved method is another common error in barricade protection. For example, did you know the use of ‘T-Walls’ (concrete barriers) does not comply with explosives safety standards? For expert information on these and other explosives safety measures, [email](#) the Defense Ammunition Center, visit their [website](#), or call (918) 420-8901.



Left: The extent of protection barriers provide. Right: An example of the damage over-pressure can cause even with barricades in place.

Mr. Mitchell T. Bates
Explosives Safety Specialist



The Chief of Ordnance's 'Best of the Best' Maintenance Award



During the FY15 Chief of Staff, Army Award for Maintenance Excellence (AAME) competition, one unit excelled above the other thirty-five. It was the 7th Korean Service Corps (KSC) Company located in Camp Casey, Korea under

the 19th Expeditionary Sustainment Command, Eighth Army. In addition to winning the Active Army 'All Others' category, the 7th KSC Company was also awarded the prestigious Chief of Ordnance's 'Best of the Best' Maintenance Award.

The 7th KSC Company is the Korean Peninsula's only Heavy Equipment Transporter (HET) company. Under the command of Mr. Ko, Han Sik, they support the 2nd Infantry Division by transporting combat platforms to various training areas in the northern corridor just south of the Korean Demilitarized Zone.

The AAME Phase II on-site evaluation of this unit confirmed their exceptional command emphasis on maintenance excellence. Employee pride is contagious and they continually demonstrated it by improving unit readiness and completing quality of life projects. They had superb maintenance procedures and an amazing maintenance awards program for their



Left to right: SGM Rodriguezroman, Eighth Army G4; COL Gillum, Eighth Army ACofS, G4; Mr. Pak, Senior Leader, 7th KSC Company; Mr. Ko, 7th KSC Company Commander; MG Smith, Eighth Army Deputy Commanding General for Sustainment; LTG Vandal, Eighth Army Commanding General. (Photo by Eighth Army PAO.)

employees. Their phenomenal unit safety record is also worthy of mention. In FY15, they conducted over 1,100 missions moving combat platforms while driving more than 56,000 miles with zero at-fault accidents. This is an impressive achievement considering the inherent risk associated with routinely moving combat platforms at night.

Congratulations to the 7th KSC Company for setting the standard in Maintenance Excellence!
Learn more about [AAME](#) on our website.

Mr. David W. Hausler
AAME Program Manager



The 7th Korean Service Corps (KSC) Company



All New U.S. Army Ordnance Crucible

Army units across all components will now have the opportunity to win bragging rights as 'Team of the Year' in two **NEW** categories: Combat Repair and Ammunition!

For the last three years, units have competed for the title of 'Explosive Ordnance Disposal Team of the Year.' Now, COL(P) David Wilson, the 40th Chief of Ordnance, is expanding this competition to a full-fledged U.S. Army Ordnance Crucible! Two new titles are up for grabs: Combat Repair Team of the Year and Ammunition Team of the Year.



**Compete
in the first
Ordnance
Crucible!**

The inaugural Ordnance Crucible will be held from 7 August to 15 September 2017 at Fort A.P. Hill, Va. Hosted by the Chief of Ordnance, the U.S. Army Ordnance Crucible will challenge teams in one of three competitive categories based on Ordnance core competencies: Explosive Ordnance Disposal, Maintenance or Ammunition.



Participants in each of the competitions will be subjected to a Decisive Action Training Environment that will test their knowledge and mastery of warrior tasks and battle drills in their respective occupational skill sets. In addition, the competition will be a physically and mentally demanding crucible designed to force Soldiers to showcase teamwork and critical thinking skills to solve problems and apply solutions.

COL Sean Davis, commander of the 59th Ordnance Brigade, will spearhead the execution of the first U.S. Army Ordnance Crucible. COL Davis sees the event as an opportunity to reinvigorate core competency training within the operational Army while enhancing communication between the Ordnance School and units in the field - ultimately leading to increased readiness!

Major and divisional commands from all components are invited to submit a team for each competition. For more information, contact us by [email](#).



MAJ Tometrius Greer
S4 Officer in Charge



Power Grid Management

Every commander wants to maximize power resources on the battlefield. Under-utilized generators waste valuable resources by increasing the operational footprint (using too many generators) and wasting fuel. This is especially important since the cost of fuel is not solely measured in **dollars**, it also measured in **risk** to the lives of Soldiers who deliver it in hostile environments.

Tactical Power Generation Specialists (MOS 91D) receive more than 30 hours of instruction on calculating load requirements and determining appropriate cable and generator size. The result is a tailored power grid layout that provides for more **efficient** and **effective** operation of power generation equipment. Gone are the days of one generator per tent! Your Tactical Power Generation Specialist can help you set up an efficient power grid that takes advantage of all available power generation assets and minimizes fuel consumption.

Mrs. Renee B. Kirkland
Course Manager, Power Generation Division



Clockwise from top: A 91D student checks the connector on a Power Distribution Illumination System Electrical (PDISE) box used to connect loads to a generator. Students connect the load to a PDISE box after determining the correct cable size. Students observe the digital control panel of the Advance Medium Mobile Power Sources (AMMPS) generator after applying a load. This is all part of the skills-based training provided by the U.S. Army Ordnance School.



Instructors Set the Bar High

Regional Training Site-Maintenance (RTS-M) instructors ensure that Ordnance students receive the highest quality of instruction regardless of training location! Recently, three 3rd Brigade, 80th Training Command instructors from RTS-M Fort Hood, RTS-M Fort Devens, and RTS-M Fort Indiantown Gap won the right to represent their brigade in the 80th Training Command Instructor of the Year competition.

These RTS-M instructors (left) teach Ordnance specific topics as well as other courses throughout the year to active and reserve component students. They represent both the high quality of instruction provided to students at RTS-Ms under the One Army School System (OASS) and the high standards set by 3rd Brigade.

All three Soldiers moved through competitive selection boards from their unit level all the way through brigade and division levels. SFC Kevin Hiles of RTS-M Fort Devens, Mass., competed and won the Noncommissioned Officer Instructor of the Year Award at the next two levels: the 80th Training Command and the penultimate U.S. Army Reserve Command (USARC). He will now advance to compete at the TRADOC level for the coveted title of **Army Instructor of the Year**.

LTC Michael A. Bryant
Deputy Chief of Staff, ARNG



SFC Kevin Hiles
RTS-M Fort Devens, Mass.
Instructs 91H10, 91B30, 91/93 Senior Leader Course, H8 Wheel Recovery, and Unit Armor courses.



SFC Danny Austin
RTS-M Fort Hood, Texas
Instructs 91H10, 91B/91H30, H8 Wheel and Track Recovery, and Unit Armor courses.



SFC Angel Quiles
RTS-M Fort Indiantown Gap, Pa.
Instructs 91B30, 91D30 Phase II, and H8 Wheel Recovery courses.



WWI and the Maintenance Mission



World War I fundamentally changed the maintenance mission for the Ordnance Corps. To adapt to modern, mechanized warfare, a system of echeloned maintenance, to include the Army's first maintenance units, was established. This time, the mission called for trained mechanics. Soldiers from the line could not simply be detailed to Ordnance duties, as had happened in past wars.

Each infantry division had 165 organizational-level mechanics. Backing up these unit mechanics was the division's Mobile Ordnance Repair Shop, or MORS, which included equipment and artillery repair trucks.

Backing up the divisional MORS were the Heavy Artillery Mobile Ordnance Repair Shops (HAMORS). These units were a complete repair shop on wheels. A variety of specialized trucks pulled a variety of specialized trailers. There was a shop office truck, air compressor truck, spare parts truck, shop equipment truck and power saw truck. Specialized trailers included



The Ordnance Base Shop at Mehun, France: Artillery Base Shop (top) and Small Arms Repair Shop (bottom).

lathe, drill press, generator, milling machine, welding and forge, and crane trailers. The trucks and trailers all had drop-sides, allowing for the set-up of a large repair shop with a complete set of pneumatic and electric tools.

Further to the rear were the Ordnance base shops and repair shops. These were fixed sites, some built specially for the purpose. The larger shops could completely rebuild or overhaul weapons and equipment. The largest base shop, at Mehun, France, covered 50 acres and employed 2,000 American and French soldiers and civilians.

Following WWI, this system of echeloned maintenance became doctrine for the Ordnance Corps and U.S. Army.

Mr. Karl L. Rubis
Historian



HAMORS Small Arms Truck (top) and Ammunition Truck (middle). Soldiers from the 42nd Infantry Division Mobile Ordnance Repair Shop are repairing machine guns on site (bottom).