



NAE Defense

METTLE OPS



GROUND SYSTEMS / SURVIVABILITY / INTEGRATION

ENGINEERED FOR MISSION READINESS

Mettle Ops capabilities presented by NAE Defense for GCC ground forces, defense programs, and industry partners.



METTLE OPS

From concept to fielded capability

U.S.-based engineering, production, and program execution for complex defense systems and legacy platform modernization.



DESIGN > PROTOTYPE > TEST > PRODUCE > SUSTAIN

01

Engineering

Ground vehicle design, reverse engineering, software integration, and finite element analysis.

02

Production

Precision manufacturing, additive manufacturing, fabrication, and system integration.

03

Execution

Program management, supply chain coordination, logistics, test and evaluation.

GCC RELEVANCE

Explore vehicle modernization, survivability upgrades, prototype programs, local sustainment planning, and engineering support tailored to a customer-defined requirement. NAE Defense can coordinate a technical discussion and route a qualified inquiry to Mettle Ops.

Photo: U.S. Department of Defense visual information via Mettle Ops.



SURVIVABILITY + INTEGRATION

Protect, adapt, and extend service life

Mettle Ops reports work spanning ground vehicle protection, prototype integration, and verification against demanding mission requirements.



PROVEN U.S. PROGRAMS

Reactive armor tile kits

Fabrication, First Article Testing, Lot Acceptance Testing, and vehicle kit assembly.

Prototype turret test asset

A physical integration and test platform with associated technical data and support.

GROUND SYSTEM WORKSTREAMS

A

Survivability

Armor, blast mitigation, structural improvements, and vehicle protection prototyping.

B

System integration

Mechanical and electrical design, testbed development, sensor integration, and verification.

For GCC programs: define the platform, threat and performance requirements first; then align feasibility, testing, configuration, support, and commercial scope with the manufacturer.

Program examples: mettleops.com/past-performance | Photo: U.S. Department of Defense.



BUILD TO PRINT + INNOVATION

Industrial depth for demanding programs

Mettle Ops combines design and production with quality controls, test activity, and program delivery support.

MANUFACTURING PATHWAY

01

REQUIREMENT

Drawing / model / scope

02

ENGINEERING

Review / prototype / FEA

03

PRODUCTION

Fabrication / assembly

04

VALIDATION

Inspection / test / delivery

01

Precision + fabrication

Build-to-print components and assemblies; machining, fabrication, assembly, quality assurance, packaging, and kitting.

02

Modernization + repair

Reverse engineering, obsolescence response, prototype development, equipment-related services, and sustainment support.

03

Testing + analysis

Test and evaluation, first article and lot acceptance activity, and simulation including finite element analysis.

04

Program delivery

Coordination across subcontractors, procurement, logistics, schedules, and stakeholder requirements.

Mettle Ops cites AS9100 Rev D certification for its R&D; and integration centers. Scope and applicability should be confirmed for each proposed program.



CELESTUS DIVISION

UAS and components

Celestus is Mettle Ops' unmanned aircraft and components division. Product configuration and GCC availability require manufacturer confirmation.



CS-7 TARGET UAS | TRAINING APPLICATIONS | COMPONENTS

01

CS-7 Target UAS

Mettle Ops lists an attritable training aid with user-defined waypoint missions, single-soldier deployment, and configuration options.

02

UAS motors

Published motor families include 2208 and 4010; additional sizes are described as in design. Confirm technical specifications directly.

NAE can arrange a focused GCC discussion on use case, demonstration scope, configuration, support, and export eligibility with the manufacturer.



A PRACTICAL PATH FROM MISSION NEED TO PROGRAM DELIVERY

Ground systems / protection / engineering / production / unmanned systems

NAE DEFENSE | GCC ENGAGEMENT

Start the discussion

Share your platform, operational need, quantity, timeline, and required support model. NAE Defense will coordinate a capability discussion, technical review, and appropriate next steps with Mettle Ops.

PROGRAM INQUIRIES

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Mettle Ops capabilities are described from public company materials. NAE Defense is the GCC inquiry contact for this brochure; specific commercial arrangements, product availability, technical scope, and any required export approvals remain subject to written confirmation.