

Summary Report for Individual Task  
551-88M-2355  
Operate Vehicle in Inclement Weather Conditions  
Status: Approved

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**Distribution Restriction:** Approved for public release; distribution is unlimited.

**Destruction Notice:** None

**Foreign Disclosure: FD5** - This product/publication has been reviewed by the product developers in coordination with the Fort Lee, VA foreign disclosure authority. This product is releasable to students from all requesting foreign countries without restrictions.

**Condition:** In an operational environment, given adverse weather conditions such as extreme cold and hot temperatures, heavy rain, blowing sand (desert environment) or snow in which vehicle performance is considered to be under "unusual" conditions. Provided mission-ready tactical wheeled vehicle (that has a winterization kit installed if cold weather), goggles, face mask, seasonal uniform and mission requirement to travel under these conditions as part of a convoy movement, and assistant driver.

Some iterations of this task should be performed in MOPP 4.

**Standard:** Operate the vehicle while complying with all extreme hot weather operating procedures/precautions. Maintain full control of the vehicle at all times following traffic regulations and rules of the road. If vehicle is so equipped, use the applicable CTIS setting to enable safe vehicle operations. All driving maneuvers must be made under these extreme conditions without becoming mired or succumbing to a conditionally-related mechanical failure. Extreme cold weather (32 degrees F to -24 degrees F) and blowing snow: operate the vehicle using cold weather starting and operating procedures according to the appropriate vehicle TM. Operate the vehicle following traffic regulations and rules of the road.

**Special Condition:** NOTE: If conditions are under extreme cold-weather, installation of the vehicle radiator cover assembly is required.

**Safety Risk:** Low

**MOPP 4:** Sometimes

<b>Task Statements</b>
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**Cue:** Your mission is requiring you to maneuver ac uneven terrain and must occur in any type of weather conditions.

## **DANGER**

Soldiers must be aware of the inherent dangers of working in and around tactical wheeled vehicles. Hot surfaces, sharp, moving objects such as fan blades, slippery surfaces, and excessively loud noises are all dangers. Each Soldier should take every precaution not to become a victim of these dangers by following regulatory guidance and risk management rules.

## WARNING

Adhere to all WARNING statements in the referenced technical manuals for the procedures identified for this task.

### WARNING:

Wear hearing protection while operating vehicle.

Wear seat belts while operating vehicle.

### WARNING:

Operation in sand and around sand dunes may cause front wheels to be violently jerked to one side or another. As a precaution vehicle operator should steer the vehicle by placing hands only on outside rim.

Placing hands or fingers on a steering wheel spoke when the steering wheel is violently jerked to one side or the other may cause serious personal injury.

### WARNING:

When operating vehicle over gullies, ravines or ditches, vehicle operator should grasp steering wheel only by the outside rim. Grasping by a spoke in steering wheel may cause personnel injury when front wheels encounter a large rock, rut, or other obstacle and spins steering wheel.

## CAUTION

Adhere to all CAUTION statements in the referenced technical manuals for the procedures identified for this task.

**Remarks:** None

**Notes:** None

## CAUTION

### CAUTION

Road surfaces are especially slick just after a rain or drizzle begins. Loosed grease and oil mix with raindrops, quickly covering the surface with a slippery film.

1. Operate vehicle in heavy rain.

a. If CTIS equipped, select mode for this type of weather or terrain (as necessary). Watch for indicator lamp showing correct mode selection on CTIS panel and adhere to speed restrictions.

Note: Recognizes that the M1078/1083 and M939 series vehicle CTIS starts automatically when engine is started and adjusts pressure to highway mode.

b. Accelerate moderately.

c. Reduce speed as necessary for conditions.

d. Moderately apply the brakes when slowing down.

e. Make no quick turns.

f. Allow at least twice the normal following distance.

g. Do not pump the brakes (ABS only).

h. Hold the brake pedal down and let the ABS system work.

i. During emergencies, steer and brake at the same time (ABS only).

j. Release enough pressure on the brakes to get the vehicle rolling again to regain steering (front ABS only).

k. Recover from skid by:

(1) Staying off the brakes.

(2) Turning quickly. Turn the steering wheel in the direction you want the vehicle to go. This lines the front of the vehicle up with the back.

(3) Countersteer-turn back the other way. As soon as the vehicle begins to straighten out, turn the wheel back the other way so that the vehicle will not turn too far.

(4) Continue to correct your steering left and right until you recover from the skid.

(5) Turn back to straight ahead.

2. Operate vehicle in extremely hot, dusty, desert environment.

Note: As a general rule vehicles in a convoy should not follow directly behind one another due to high concentrations of dust in the air. Visibility may be reduced to zero facilitating a vehicle accident.

a. Don protective goggles and other facial protection if available.

b. If CTIS equipped, select mode for this type of terrain, watch for indicator showing correct mode selection on CTIS panel and adhere to speed restrictions.

c. Select a gear or range that will start you with a minimum of, or no clutch slippage (manual transmission) and wheel spinning.

d. Use rear wheel drive if possible due to the front wheels tendency to dig into the sand.

e. Accelerate slowly.

f. Check instrument panel gauges more frequently while operating vehicle to prevent a mechanical failure due to extremely hot temperatures.

g. Maintain a steady and even rate of movement.

h. Avoid unnecessary shifting of gears (manual transmission).

i. Anticipate difficult spots and bypass if possible.

j. Approach a dune from the windward side slope at a 90-degree angle.

k. Follow the track of preceding vehicle or break a new path depending on conditions.

l. Make wide turns.

m. Let your vehicle roll to a halt as practicable.

n. Attempt to stop on a downhill slope.

### 3. Operate vehicle through streams.

a. If CTIS equipped, select mode for this type of terrain; watch for indicator showing correct mode selection on CTIS panel and adhere to speed restrictions.

b. Follow the applicable steps provided in the vehicle TM for fording streams.

c. Check the bottom to see how firm a support can be expected.

d. Keep the cab door open when crossing frozen streams.

e. After reaching dry land, test brakes at a reduced speed by:

(1) Lightly applying and releasing brakes until normal braking is restored (Non ABS only).

(2) Apply light steady pressure on brakes until normal braking is restored (ABS only).

### 4. Operate vehicle in extreme cold weather (32 degrees F to -24 degrees F) and blowing snow.

a. Start the vehicle using cold weather starting procedures referenced in the applicable vehicle TM.

b. Turn on vehicle cab heater and adjust to defrost position to clear windows while engine is warming up.

c. Remove ice and snow from windows.

d. If CTIS equipped, select mode for this type of terrain; watch for indicator showing correct mode selection on CTIS panel and adhere to speed restrictions.

e. Place vehicle into motion by following general operating procedures in the applicable vehicle TM under "operation under unusual conditions."

f. Begin movement in second or third gear (manual transmission) rather than first of low. Engage clutch gradually to prevent wheel spin.

g. For automatic-transmission-vehicles use D2 range and gradually apply throttle.

h. Avoid quick acceleration.

i. Drive at reduced speed for better control and safer stops.

j. Display turn signals earlier than usual (if tactical situation permits).

k. Maintain at least double the normal following distance from the vehicle ahead.

l. Pump brakes to give early warning to those following of your intention to stop (Non ABS).

m. Apply steady brake pressure earlier when stopping for warn others of your intentions (ABS only).

n. Descend moderate grades in the gear normally used to climb the same grade.

(Asterisks indicates a leader performance step.)

**Evaluation Guidance:** Score the Soldier GO if all performance measures are passed. Score the Soldier NO-GO if any performance measure is failed. Tell the Soldier what was done wrong and how to perform it correctly.

**Evaluation Preparation:** Setup: Provide the Soldier with a tactical wheeled vehicle, winterization kit, and all other items required for inclement weather preparations.

Brief Soldier:

You are required to prepare your vehicle for inclement weather operation by installing/adjusting AAL issued items with your vehicle and use procedures covered under "operation under unusual conditions" in the reference TM.

PERFORMANCE MEASURES	GO	NO-GO	N/A
1. Operated vehicle in rain.			
2. Operated vehicle in extremely hot, dusty, desert environment.			
3. Operated vehicle through streams.			
4. Operated vehicle in extreme cold weather (32 degrees F to -24 degrees F) and blowing snow.			

**Supporting Reference(s):**

Step Number	Reference ID	Reference Name	Required	Primary
	FM 55-30 (Superseded with ATP 4-11)	(Superseded) ARMY MOTOR TRANSPORT UNITS AND OPERATIONS	No	No
	FM 9-207 (Superseded by TM 4-33.31, 5 JULY 2013)	Operation and Maintenance of Ordnance Materiel in Cold Weather	No	No
	FM 90-3	Desert Operations	No	No
	TC 21-305-20	Manual for the Wheeled Vehicle Operator {AFMAN 24-306(I)}	Yes	No
	TM 9-2320-366-10-1	OPERATORS INSTRUCTIONS MANUAL FOR M1083 SERIES, 5-TON, 6X6, MEDIUM TACTICAL VEHICLES (MTV) VOLUME NO. 1 OF 2 TRK, CAR., MTV, M1083 W/WN (NSN 2320-01-360-1895) (EIC: BT3) W/O WN (2320-01-354-3386) (EIC: B	Yes	No
	TM 9-2320-366-10-2	OPERATORS INSTRUCTIONS MANUAL FOR M1083 SERIES, 5-TON, 6X6, MEDIUM TACTICAL VEHICLES (MTV) VOLUME NO. 2 OF 2 TRK, CAR., MTV, M1083 W/WN (2320-01-360-1895) (EIC: BT3) W/O WN (2320-01-354-3386) (EIC: BR2)	Yes	No

**Environment:** Environmental protection is not just the law but the right thing to do. It is a continual process and starts with deliberate planning. Always be alert to ways to protect our environment during training and missions. In doing so, you will contribute to the sustainment of our training resources while protecting people and the environment from harmful effects. Refer to FM 3-34.5 Environmental Considerations and GTA 05-08-002 ENVIRONMENTAL-RELATED RISK ASSESSMENT. Every effort should be made by all vehicle operators to take an existing route over terrain. If this is not possible, care should be taken to take the route of least resistance. This will reduce or eliminate damage to surrounding area of travel.

**Safety:** In a training environment, leaders must perform a risk assessment in accordance with ATP 5-19, Risk Management. Leaders will complete the current Deliberate Risk Assessment Worksheet in accordance with the TRADOC Safety Officer during the planning and completion of each task and sub-task by assessing mission, enemy, terrain and weather, troops and support available-time available and civil considerations, (METT-TC). Note: During MOPP training, leaders must ensure personnel are monitored for potential heat injury. Local policies and procedures must be followed during times of increased heat category in order to avoid heat related injury. Consider the MOPP work/rest cycles and water replacement guidelines IAW FM 3-11.4, Multiservice Tactics, Techniques, and Procedures for Nuclear, Biological, and Chemical (NBC) Protection, FM 3-11.5, Multiservice Tactics, Techniques, and Procedures for Chemical, Biological, Radiological, and Nuclear Decontamination. CAUTION:

Road surfaces are especially slick just after the rain or drizzle begins. Loosed grease and oil mix with raindrops, quickly covering the surface with a slippery film.

**WARNING:**

Wear hearing protection while operating vehicle.  
Wear seat belts while operating vehicle.

Instructors (unit Master Driver) must ensure that operators > (candidates) of tactical wheeled vehicles are trained IAW AR 600-55, AR 385-10 Chapter 11, vehicle training circulars (TC), and FM 21-305. When training on a specific vehicle the instruction will include all safety hazards and risks of operating or working with the vehicle.

**Prerequisite Individual Tasks :** None

**Supporting Individual Tasks :** None

**Supported Individual Tasks :** None

**Supported Collective Tasks :**

Task Number	Title	Proponent	Status
55-2-4003	Conduct Tactical Convoy	55 - Transportation (Collective)	Approved

**ICTL Data :**

<b>ICTL Title</b>	<b>Personnel Type</b>	<b>MOS Data</b>
MOS 88M - Motor Transport Operator	Enlisted	MOS: 88M
MOS 88M - Motor Transport Operator SL3	Enlisted	MOS: 88M, Skill Level: SL3
MOS 88M - Motor Transport Operator SL4	Enlisted	MOS: 88M, Skill Level: SL4
MOS 88M - Motor Transport Operator SL 1-4	Enlisted	MOS: 88M
MOS 88M - Motor Transport Operator SL2	Enlisted	MOS: 88M, Skill Level: SL2