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CURRICULUM OUTLINE OF INSTRUCTION
SURFACE WARFARE OFFICER DEPARTMENT HEAD COURSE
CIN: A-4H-0107 **CDP: 9545**
VER: 1.0 **CHANGE: 0**

MODULE 1-6: EXPEDITIONARY WARFARE		
Lesson #	Topic	Objectives
1-6-1	Introduction to Expeditionary Warfare	TO 1-6-1.1 DESCRIBE amphibious operations and the capabilities and limitations of relevant USN/USMC assets.
1-6-1-2	Introduction to Amphibious Operations	EO 1-6-1-2.1 DEFINE amphibious operations. EO 1-6-1-2.2 LIST and DESCRIBE the types and phases of amphibious operations. EO 1-6-1-2.3 LIST the applications for conducting amphibious operations. EO 1-6-1-2.4 DESCRIBE the characteristics of amphibious operations. EO 1-6-1-2.5 DEFINE the following terms: <ul style="list-style-type: none">• Supported/Supporting command relationship• Commander, Amphibious Task Force (CATF)• Commander, Landing Force (CLF) EO 1-6-1-2.6 LIST the units and staffs found in the following: <ul style="list-style-type: none">• Amphibious Ready Group (ARG)• Marine Expeditionary Unit (MEU)• Expeditionary Strike Group (ESG).
1-6-1-3	Amphibious Ships and Craft	EO 1-6-1-3.1 DESCRIBE each class of amphibious ship in terms of: <ul style="list-style-type: none">• Mission• Sensors• Troop lift capacity• Cargo storage• Aircraft facilities• Welldeck facilities• Weapon systems EO 1-6-1-3.2 DESCRIBE each type of landing craft in terms of: <ul style="list-style-type: none">• Mission• Speed• Cargo capacity• Troop capacity

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1-6-1-4	USMC Familiarization	<p>EO 1-6-1-4.1 LIST and DESCRIBE the elements of a Marine Air-Ground Task Force (MAGTF).</p> <p>EO 1-6-1-4.2 LIST and DEFINE the 3 types of MAGTFs in terms of:</p> <ul style="list-style-type: none"> • Level of command • Major units assigned (GCE/ACE/LCE) • Troop strength • Sustainability <p>EO 1-6-1-4.3 LIST the mission capabilities of a MEU (SOC).</p> <p>EO 1-6-1-4.4 DESCRIBE the various USMC assets in terms of:</p> <ul style="list-style-type: none"> • Mission • Passenger capacity
1-6-2	Amphibious Assault and Littoral Operations	<p>TO 1-6-2.1 Given mission parameters, operational area geography and available assets, ARRANGE amphibious force units for effective conduct of amphibious operations, maintaining force defense and force protection.</p> <p>TO 1-6-2.2 Given mission parameters and available assets, DISCUSS methods and reasons for conducting supporting, amphibious advance force and/or pre-landing operations.</p> <p>TO 1-6-2.3 DESCRIBE the challenges and limitations on amphibious operations conducted in littoral waters.</p>
1-6-2-1	Ship-to-Shore Movement / Vertical Assault	<p>EO 1-6-2-1.1 LIST and DESCRIBE the elements of the Naval Control Group and their roles in surfaceborne STS, including:</p> <ul style="list-style-type: none"> • CATF • CCO • PCO • LCO • SCO <p>EO 1-6-2-1.2 LIST and DEFINE the three types of surface craft control.</p> <p>EO 1-6-2-1.3 LIST and DESCRIBE the major Navy control stations involved in vertical assault to include:</p> <ul style="list-style-type: none"> • CATF • TAO • TACC • HCS <p>EO 1-6-2-1.4 DISCUSS advantages and disadvantages associated with surface- and airborne ship-to-shore movement.</p>

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1-6-2-2	Emergency Defense of the Amphibious Task Force (EDATF)	<p>EO 1-6-2-2.1 DEFINE Emergency Defense of the ATF.</p> <p>EO 1-6-2-2.2 DESCRIBE the challenges associated with conducting EDATF, including those associated with operating in a littoral environment.</p> <p>EO 1-6-2-2.3 DESCRIBE command-and-control procedures used during EDATF operations.</p> <p>EO 1-6-2-2.4 LIST the capabilities and limitations of various USMC assets when used in an EDATF role.</p>
1-6-2-3	Hydrography	<p>EO 1-6-2-3.1 DESCRIBE the following, including their effects on landing craft:</p> <ul style="list-style-type: none"> • Waves • Breakers (3 types) • Tides • Currents (3 types) <p>EO 1-6-2-3.2 DESCRIBE casualties experienced by landing craft in the surf zone, including their causes and effects.</p> <p>EO 1-6-2-3.3 DESCRIBE the Surf Observation (SUROB) report, including:</p> <ul style="list-style-type: none"> • Procedure • Information included • Report-capable units <p>EO 1-6-2-3.4 DEFINE the Modified Surf Index (MSI).</p> <p>EO 1-6-2-3.5 LIST the operational and training MSI limits for LCU's and AAV's.</p> <p>EO 1-6-2-3.6 STATE the hydrographic limits on employment of LCAC's.</p>
1-6-2-4	The Amphibious Objective Area	<p>EO 1-6-2-4.1 DESCRIBE the following elements of the AOA, including general operating/stationing concerns within them:</p> <ul style="list-style-type: none"> • Sea Echelon Area (SEA) • Transport Area • Fire Support Area (FSA) <p>EO 1-6-2-4.2 DEFINE the following terms related to displacement craft control:</p> <ul style="list-style-type: none"> • Boat Lane • Return Lane • Approach Lane • Line of Departure (LOD)

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		<p>EO 1-6-2-4.3 DESCRIBE the following planning factors for AAV operations:</p> <ul style="list-style-type: none"> • Max swim time • Max swim distance <p>EO 1-6-2-4.4 DEFINE the following terms related to LCAC control:</p> <ul style="list-style-type: none"> • LCAC Launch Area (CLA) • LCAC Collection Area (CCA) • LCAC Departure Point (CDP) • LCAC Control Point (CCP) • LCAC Penetration Point (CPP) • LCAC Landing Zone (CLZ) <p>EO 1-6-2-4.5 STATE the safety measures required when operating displacement craft in conjunction with non-displacement craft.</p> <p>EO 1-6-2-4.6 DRAW the AOA, to include all elements, displacement and non-displacement craft control points and associated safety factors, and planning considerations for ship stationing.</p> <p>EO 1-6-2-4.7 DESCRIBE the elements of the Helicopter Transport Area (HTA).</p>
1-6-2-5	Ballasting and Wet Well Operations	<p>EO 1-6-2-5.1 DESCRIBE the shipboard command-and-control structure for wet-well operations.</p> <p>EO 1-6-2-5.2 DESCRIBE the general launch and recover procedures for the following landing craft:</p> <ul style="list-style-type: none"> • LCU • LCAC • AAV <p>EO 1-6-2-5.3 DESCRIBE the LCU sterngate marriage.</p> <p>EO 1-6-2-5.4 STATE the planning factors for ballasting/deballasting time.</p> <p>EO 1-6-2-5.5 DESCRIBE the safety concerns posed by:</p> <ul style="list-style-type: none"> • Squat • Free Surface Effect
1-6-2-6	Supporting, Amphibious Advance Forces and Pre-Landing Operations	<p>EO 1-6-2-6.1 DEFINE the following in terms of forces involved and timeline/area of conduct:</p> <ul style="list-style-type: none"> • Supporting Operations • Amphibious Advance Force Operations • Pre-Landing Operations

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		<p>EO 1-6-2-6.2 LIST missions associated with the following:</p> <ul style="list-style-type: none"> • Supporting Operations (including specific maritime, air and SOF missions) • Amphibious Advance Force Operations • Pre-Landing Operations <p>EO 1-6-2-6.3 DESCRIBE the advantages and disadvantages of amphibious advance force operations.</p>
1-6-2-7	Naval Surface Fire Support (NSFS)	<p>EO 1-6-2-7.1 IDENTIFY the general mission of NSFS.</p> <p>EO 1-6-2-7.2 LIST and DEFINE the tactical missions of NSFS.</p> <p>EO 1-6-2-7.3 DESCRIBE the capabilities and limitations of current NSFS weapons and platforms.</p>
1-6-2-8	TLAM Overview	<p>EO 1-6-2-8.1 LIST the platforms capable of launching the Tomahawk Land Attack Missile (TLAM).</p> <p>EO 1-6-2-8.2 LIST the variants, warheads and ranges of TLAM.</p> <p>EO 1-6-2-8.3 DESCRIBE the following ways to update the TLAM Inertial Navigation System (INS):</p> <ul style="list-style-type: none"> • Terrain Contour Matching (TERCOM) • Digital Scene Matching Area Correlator (DSMAC) • Global Positioning System (GPS) <p>EO 1-6-2-8.4 LIST and DESCRIBE the terminal maneuvers of the TLAM-C, TLAM-D and TLAM-E.</p> <p>EO 1-6-2-8.5 DESCRIBE the responsibilities of the following TLAM C2 entities:</p> <ul style="list-style-type: none"> • Launch Area Coordinator (LAC) • Tomahawk Strike Coordinator (TSC) <p>EO 1-6-2-8.6 DESCRIBE the following TLAM messages:</p> <ul style="list-style-type: none"> • Launch Sequence Plan (LSP) • INDIGO <p>EO 1-6-2-8.7 DESCRIBE the role of the TLAM firing unit (FRU) with emphasis on:</p> <ul style="list-style-type: none"> • Overwater flight planning • Ship positioning within the Launch Basket • Pre-planned Launch Position (PLP)

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1-6-2-9	Non-Combatant Evacuation Operations (NEO)	<p>EO 1-6-2-9.1 DESCRIBE the relationships between the following entities during an NEO:</p> <ul style="list-style-type: none"> • Department of State (DoS) • Department of Defense (DoD) • U.S. Ambassador • Combatant Commander • Task Force/Unit Commander(s) <p>EO 1-6-2-9.2 DESCRIBE the following with respect to NEO:</p> <ul style="list-style-type: none"> • Permissive environment • Uncertain environment • Hostile environment <p>EO 1-6-2-9.3 DESCRIBE the following DoS tools related to NEO:</p> <ul style="list-style-type: none"> • Emergency Action Committee • Emergency Action Plan • F-77 Report • Warden System <p>EO 1-6-2-9.4 IDENTIFY key personnel on U.S. embassy staff and their general duties.</p> <p>EO 1-6-2-9.5 DESCRIBE the general purpose and employment of a Forward Command Element (FCE).</p> <p>EO 1-6-2-9.6 DESCRIBE the general procedures and concerns regarding:</p> <ul style="list-style-type: none"> • Evacuee transport • Evacuee processing • Evacuee site security <p>EO 1-6-2-9.7 IDENTIFY general shipboard concerns with the reception of evacuees.</p>
1-6-2-10	FHA and HCA	<p>EO 1-6-2-10.1 DISTINGUISH between Foreign Humanitarian Assistance (FHA) and Humanitarian and Civic Assistance (HCA) operations.</p> <p>EO 1-6-2-10.2 LIST common challenges when coordinating FHA operations between the DoS, DoD, inter-governmental organizations (IGO) and non-governmental organizations (NGO).</p> <p>EO 1-6-2-10.3 OUTLINE the process to request DoD assistance for a FHA operation after a disaster occurs.</p>
1-6-3	Crisis Action Planning	<p>TO 1-6-3.1 Given a mission, situation order of battle and commander's intent, CONDUCT crisis action planning within the required timeframe.</p>

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1-6-3-1	Intelligence Preparation of the Operating Environment (IPOE)	EO 1-6-3-1.1 DESCRIBE amphibious intelligence considerations. EO 1-6-3-1.2 LIST the six functions of intelligence. EO 1-6-3-1.3 DESCRIBE the IPOE process and its purpose. EO 1-6-3-1.4 LIST the four steps of IPOE.
1-6-3-2	Crisis Action Planning (CAP) Overview	EO 1-6-3-2.1 LIST the six steps of CAP in order. EO 1-6-3-2.2 DESCRIBE the purpose of each step in CAP. EO 1-6-3-2.3 STATE the timelines and final output requirement of the CAP process.
1-6-3-3	Mission Analysis w/ Intel Scene Setter and Walkthrough	EO 1-6-3-3.1 Given mission guidance from higher authority, IDENTIFY the following: <ul style="list-style-type: none"> • Information requirements • Assumptions • Tasks (3 types) • Constraints and Restraints EO 1-6-3-3.2 DEFINE the following terms: <ul style="list-style-type: none"> • Specified tasks • Implied tasks • Essential tasks • Constraints • Restraints
1-6-3-4	Course of Action (COA) Development	EO 1-6-3-4.1 Given mission guidance and mission analysis information, DEVELOP one or more Courses of Action (COA), to include: <ul style="list-style-type: none"> • Forces used/forces in reserve • Landing craft/aircraft used • Timeline and wave composition • Overall time estimate • Follow-on activities required • Advantages and Disadvantages EO 1-6-3-4.2 DEFINE the following minimum criteria for a full COA: <ul style="list-style-type: none"> • Suitability • Feasibility • Acceptability • Distinguishability • Completeness
1-6-3-8	COA Analysis and Wargaming	EO 1-6-3-8.1 DISCUSS the purpose of and information required for COA wargaming.

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		<p>EO 1-6-3-8.2 DESCRIBE the wargaming process, including:</p> <ul style="list-style-type: none">• Participating personnel• Tools used• General procedures <p>EO 1-6-3-8.3 DISCUSS the possible outputs of wargaming, including:</p> <ul style="list-style-type: none">• Strengths and Weaknesses• Advantages and Disadvantages• Branches and Sequels• Request for Forces (RFF)• Request for Information (RFI) <p>EO 1-6-3-8.4 DEFINE the following terms:</p> <ul style="list-style-type: none">• Branches• Sequels
1-6-3-9	COA Comparison and Decision	<p>EO 1-6-3-9.1 DISCUSS the purpose of and information required for COA comparison and decision.</p> <p>EO 1-6-3-9.2 DESCRIBE common procedures used for COA comparison and decision, including participating personnel.</p> <p>EO 1-6-3-9.3 DESCRIBE common comparison and decision tools, including:</p> <ul style="list-style-type: none">• Decision matrix• Weighted decision matrix• Synchronization matrix <p>EO 1-6-3-9.4 LIST possible criteria for evaluating and comparing COAs.</p>
1-6-3-10	Orders Generation and OPTASK AMPHIB	<p>EO 1-6-3-10.1 LIST the Navy amphibious messages written in the Orders Generation phase of Crisis Action Planning.</p> <p>EO 1-6-3-10.2 DESCRIBE the major amphibious messages in terms of:</p> <ul style="list-style-type: none">• Purpose• Originator• Information contained
1-6-3-15	Transition to Execution	<p>EO 1-6-3-13.1 LIST and DESCRIBE the four major events of the Transition phase of CAP.</p>

//SIGNED//

SWO DH (A-4H-0107) CCMM

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