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**U. S. NAVAL SCHOOL
(NAVAL INTELLIGENCE)**

1949

CURRICULA

**U. S. NAVAL RECEIVING STATION
WASHINGTON, D. C.**

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I N T E L L I G E N C E

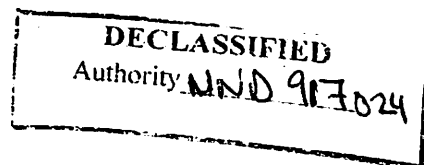
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L A N G U A G E

C U R R I C U L A

U.S. Naval School (Naval Intelligence)
Naval Receiving Station
Washington 25, D.C.

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INTRODUCTION

The U.S. Naval School (Naval Intelligence) was established in 1946 at the Naval Receiving Station, Anacostia, Washington, D. C., as a subordinate activity of the Naval Postgraduate School. The school is under the military command and coordination control of the Commandant, Potomac River Naval Command and the management control of the Bureau of Naval Personnel.

The MISSION and TASK of the Naval School (Naval Intelligence) are as set forth by the Chief of Naval Personnel:

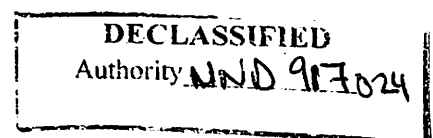
***MISSION:** *'To train Naval Officers who select Intelligence as their specialty in all phases of Intelligence, including Strategic, Operational and Counter Intelligence, as required by the Navy. To conduct intensive instruction in foreign languages to meet the needs of the Navy for linguistic officers. To offer instruction in intelligence and foreign languages to personnel of the other armed services up to the capacity of the school. In addition, to conduct a suitable refresher course for Reserve Intelligence Officers'.*

***TASK:** *'1. To conduct a postgraduate course in Naval Intelligence including classroom instruction in*

* BuPers letter Pers-4344-06 dated 27 December 1949

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the basic principles and techniques of intelligence operations, field work in Fleet Intelligence at amphibious bases and aboard ship, followed by a language course, the length of which is dependent upon the particular language to be studied.

'2. To conduct foreign language courses as required to meet the needs of the Navy for competent and well qualified linguistic officers and as requested by the other armed services.

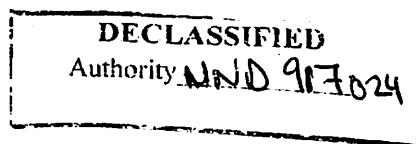
'3. To conduct a lecture and study course known as an area study of the language selected, including geography, history, economics, institutions, etc. of the people involved.

'4. To conduct such refresher and short term language and intelligence training as may be required by various officers and bureaus of the Navy, Naval Reserve, and the other armed services.

The MISSION and TASKS are accomplished by means of an integrated course in Strategic, Operational (including air) and Counter Intelligence, followed by foreign language training. The Intelligence curriculum consists of six months of classroom instruction plus a Comprehensive Intelligence Problem of six weeks duration. Phased in logically with this training is six weeks of additional practical work in the form of field trips to fleet and shore units whose operations include the procurement or collection of Strategic, Operational or Security Intelligence.

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The subsequent intensive instruction in foreign languages leads to the qualification of the student officer as an Interpreter and Translator.

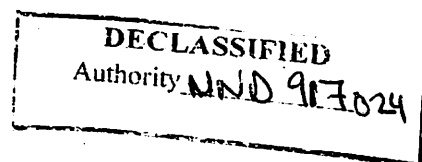
The Intelligence portion of the curriculum commences with four courses in World Geography and International Relations, in order to provide the student with a proper background for intelligence training. The remainder of the curriculum treats Intelligence as a whole and its application to various types of military or naval operations. This approach is based on the firm belief that Intelligence is a primary function in support of military operations at all levels of command, and that it cannot be divided into mutually exclusive categories. The student officer is trained in Intelligence, and his professional background is relied upon to fit each individual for the specialized intelligence application for which he is best qualified.

The method of instruction employed in the curriculum exploits the availability of the best Intelligence brains and authority in the government. Lectures, materials and advice are supplied by all Intelligence agencies. In this way the best and latest information is continually presented by those who know it most familiarly.

Since language qualification is considered to be a necessary part of the training of a naval intelligence officer, the course of instruction in languages is under constant revision in order to maintain the highest possible standards. This is assured by the use of the most advanced teaching techniques and the employment as instructors only of those people who are native to the language they teach, and are qualified as educators.

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The school also prepares and administers a Correspondence Course in Naval Intelligence available to any officer in the Regular Navy or the Intelligence component of the Naval Reserve, and Intelligence Specialists of the Marine Corps, Coast Guard, Army and Air Force. This Correspondence Course provides intelligence training for officers who do not have an opportunity to attend the Regular course.

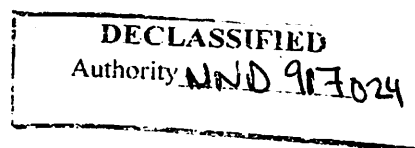
Additional instruction for Organized Intelligence Reserve Officers is provided annually in the form of refresher courses of two weeks duration each.

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WORLD GEOGRAPHY
and
RESOURCES

This course presents the basic elements of world power in terms of physical geographic patterns, world resource potential and distribution, technology and industrial capacity and human population. Specific studies are made in Europe, USSR, the Far East and the Americas. The course concludes with a discussion of various geopolitical theories of land, sea and air power.



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WORLD GEOGRAPHY AND RESOURCES

GENERAL OUTLINE

- A. Geographic Patterns of the World
- B. World Resources
 - 1. Distribution
 - 2. Basic Resources for Peace and War
 - 3. Strategic Resources
- C. Technological and Industrial Capacity
- D. Demographic Patterns of the World
- E. Power Potential of Primary World Areas
 - 1. Europe and Africa
 - 2. Near and Far East
 - 3. The Americas
 - 4. The USSR
- F. Geopolitics
 - 1. Origins
 - 2. Development and Decline
 - 3. Contemporary Theories

SCHEDULE OF LECTURES

13 HOURS

All of the following lectures are presented by the Intelligence Faculty and are of one hour's duration.

World Physical Patterns

Distribution of Resources

Basic Resources for Peace and War

Strategic Resources

Technology and Industrial Capacity

Demographic Patterns and Concepts

Power Potential of Europe and Africa

Power Potential of Near East and Far East

Power Potential of USSR

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Power Potential of the Americas

Origins of Geopolitics

Development and Decline of Geopolitics

Contemporary Geopolitics

A one hour question period is included at the end of each lecture day.

Required Reading:

Global Geography - Renner

Contemporary International Politics - Sharp and Kirk

USMA - Raw Materials in Peace and War

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INTERNATIONAL RELATIONS

and

FOREIGN POLICY

This course presents the basic theories of international politics and their application in the foreign policies of the great powers. The lectures cover the nature and limitations of national power and power politics, the various factors of modern warfare, a critical discussion of the foreign policies of the great powers, and finally the philosophical and economic doctrines of Communism.

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INTERNATIONAL RELATIONS AND FOREIGN POLICY

GENERAL OUTLINE

- A. National Power and Power Politics
 - 1. The nature, preservation, increase and decline of national power.
 - 2. Nationalism
 - 3. Sovereignty
 - 4. Balance of Power
- B. International law
 - 1. Foundations
 - 2. Jurisdictions
 - 3. Objectives
- C. The Nature of Modern Warfare
- D. The Maintenance of Peace
 - 1. Diplomacy
 - 2. Organization
 - 3. Judicial
- E. Foreign Policy
- F. U.S. Foreign Policy
 - 1. Historical Development
 - 2. U.S. Foreign Policy with Regard to Various States and Areas
- G. British Foreign Policy
- H. The Communist Ideology
- I. Foreign Policy of the Russians

SCHEDULE OF LECTURES

35 HOURS

All of the following lectures are presented by the Intelligence Faculty and are of one hour's duration:

Nature of Power Politics

Preservation of Power - "Status Quo"

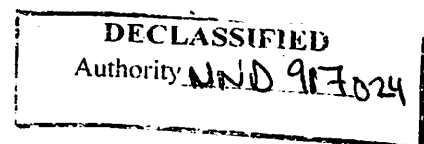
Increase of Power - Imperialism

Nationalism

Sovereignty

Balance of Power

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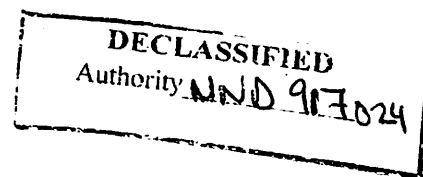


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Foundations of International Law
Jurisdiction of International Law
Objectives of International Law
Nature of War - Total War
Psychological Factors of War
Economic and Political Factors
Settlement by Disarmament or Collective Security
Judicial Settlement
Factors of Foreign Policy
Formulation of Foreign Policy
Execution of Foreign Policy
U.S. Diplomacy of Expansion
U.S. Non-Entanglement and Isolation
U.S. - The New World Power
U.S. - Policy Between Wars
U.S. - International Idealism
U.S. - International Realism
U.S. and Latin America
U.S. and the Far East
U.S. and the Mediterranean
U.S. and Germany
U.S. and Western Europe
British Foreign Policy
Marxian Socialism
The Rise of Russian Communism
The Communism of Stalin

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"Foreign" Policy of Communism

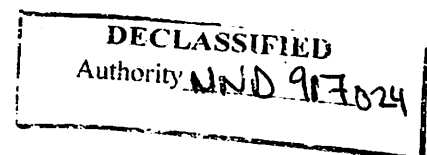
Foreign Policy of USSR

A one hour question period is included at the end of each lecture day.

Required Reading:

War: Causes, Effects and Control of International Violence - Friedrich
Contemporary International Politics - Sharp and Kirk
Force in Peace - Hindmarsh
Price of Power - Baldwin
British Security - A report by the Chatham House Study Group
Current Readings on International Relations - Padelford
A Diplomatic History of American People - Bailey

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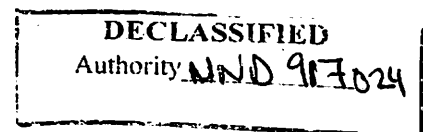
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WORLD ORGANIZATION

This course presents a picture of past and present efforts toward international organization. A historical review of the Hague Convention and the League of Nations is followed by a detailed discussion of the United Nations with a contrasting pattern of current regional agreements.

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WORLD ORGANIZATION

GENERAL OUTLINE

- A. Early Efforts Toward World Organization
- B. Plan, Operation and Problems of the United Nations
- C. Relationship of International Organization to Regional Agreements
 - 1. Atlantic Pact
 - 2. Organization of American States
 - 3. Arab League
 - 4. Soviet Satellites

SCHEDULE OF LECTURES

9 HOURS

All of the following lectures are presented by the Intelligence Faculty and are of one hour's duration:

Early Efforts and the Hague Conference

The League of Nations

World Organization: 1919-1939

Plan and Charter of United Nations

Councils and Assembly of United Nations

Commissions of United Nations

Regional Organizations

Collective Security and the Police Force

Atomic Energy and the Veto

A one hour question period is included at the end of each lecture day.

Required Reading:

Contemporary International Politics - Sharp and Kirk
Charter of the United Nations

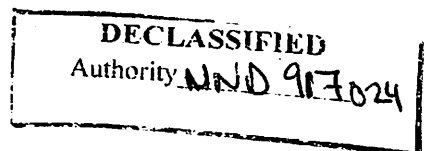
International Organization - World Peace Foundation

International Conciliation #430

Atomic Impasse - State Department

The Veto in the United Nations - Major Problems of U.S. Foreign
Policy 1948-1949

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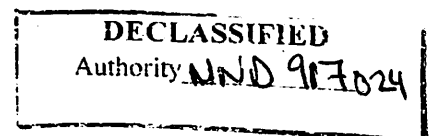
INTERNATIONAL TRADE

TRANSPORTATION AND FINANCE

The purpose of this course is to present the trends of international economic cooperation in the fields of trade, finance, transportation and communications. Further general treatment is accorded to the specific policies of the major powers and the efforts of the United Nations in the fields of international trade and finance.

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INTERNATIONAL TRADE, TRANSPORTATION AND FINANCE

GENERAL OUTLINE

- A. Theories and Practices of International Trade
- B. Commercial Policies of the United States, Great Britain and the USSR
- C. International and Regional Plans Affecting World Economy
 - 1. Current United Nations Efforts
 - 2. Marshall Plan and Soviet Satellites
- D. Problems of International Transportation and Communication

SCHEDULE OF LECTURES

12 HOURS

All of the following lectures are presented by the Intelligence Faculty and are of one hour's duration:

General Aspects of Trade and Finance

Trade Barriers and Restrictive Practices

Free World Trade

Commercial Policy of Great Britain and USSR

International Trade Organization and Food and Agriculture Organization

European Conditions - Marshall Plan

Stabilization of International Finance

Debts, Reparations and Investment

International Monetary Fund and the World Bank

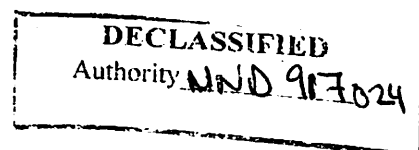
Inland and Ocean Transportation

Air Transportation

Communications

A one hour's question period is included at the end of each lecture day.

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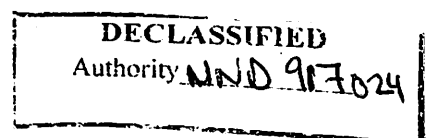


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Required Reading:

Contemporary International Politics - Sharp and Kirk
American Trade Policy - State Department
Building World Trade - State Department
International Conciliation #445
American Trade Proposals - State Department
Problems of U.S. Foreign Economic Policy - State Department
FAO of the United Nations - State Department
International Investment and Free Enterprise - Angell
International Monetary Fund - Gutt
International Monetary Fund - State Department
Transportation - Perry
International Sea Transportation - Mance
Aspects of U.S. Participation in International Civil Aviation-St.Dept.
International Civil Aviation - State Department

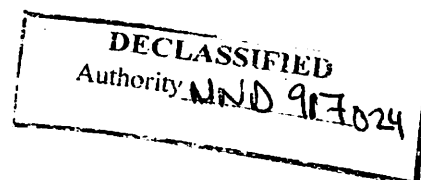
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CURRENT INTERNATIONAL PROBLEMS

This course is conducted on a continuing horizontal scheduling of 2 hours per week throughout the curriculum. It presents the student with an analysis and the opportunity for discussion of current events of international significance as they occur during the school term. The purpose of the course is to develop in the student the ability to analyze and interpret events from the standpoint of an Intelligence Officer.



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CURRENT INTERNATIONAL PROBLEMS

GENERAL OUTLINE

- A. Analysis of International Events
- B. Discussion of International Events

SCHEDULE OF LECTURES

40 HOURS

Analysis of Current International Events

Presented by: Intelligence Faculty

10 hours

Analysis of Current International Events

Presented by: Student Panels of
Three Officers Each

10 hours

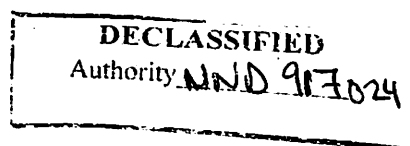
Discussion of Current International Events

Presented by: Class discussion

20 hours

Required reading:

Current materials available on International Events.
(Intelligence Reports, Periodicals, Books, etc.)



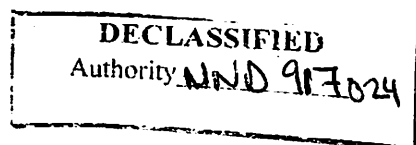
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THE FUNDAMENTALS OF INTELLIGENCE

This course provides initial, fundamental instruction with regard to intelligence in its broadest sense. Definitions and terminology which are employed throughout all intelligence activity are firmly established. In addition, the basic intelligence cycle with its component steps and processes is set forth in detail. A firm understanding of these essentials provides the student with the framework upon which all subsequent instruction is based.

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THE FUNDAMENTALS OF INTELLIGENCE

GENERAL OUTLINE

- A. Basic Concepts of Intelligence
 - 1. Definition
 - 2. Terminology
- B. The Intelligence Cycle
 - 1. Intelligence Estimate and Capabilities
 - 2. Direction of the Intelligence Effort
 - 3. Collection of Information
 - 4. Processing of Information into Intelligence
 - 5. Dissemination of Finished Intelligence
 - 6. Re-estimate on the basis of new Intelligence

CLASSROOM PRACTICAL WORK

1 HOUR

- A. Solution of elementary situational problems illustrating basic intelligence concepts and processes.

SCHEDULE OF LECTURES

5 HOURS

All of the following lectures are presented by the Intelligence Faculty and are of one hour's duration:

Fundamental Concepts of Intelligence

Introduction to the Intelligence Cycle

The Intelligence Estimate

Direction and Collection

The Processing of Intelligence

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NATIONAL INTELLIGENCE ORGANIZATION

This course is designed to acquaint the student with the organization and functions of the various intelligence agencies of the United States government, and the way in which they work together to accomplish the broad national intelligence mission. This course opens with a detailed discussion of the Office of Naval Intelligence. This is followed by lectures and discussions on the Central Intelligence Agency, the Intelligence Divisions of the Department of the Air Force and the Department of the Army, the State Department and the Joint Chiefs of Staff. Emphasis is on organizations, missions, functions, and liaison activities of the intelligence agencies.

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NATIONAL INTELLIGENCE ORGANIZATION

GENERAL OUTLINE

- A. Organization of ONI
 - 1. Overall organization
 - 2. The Intelligence Branch and the Foreign Section
 - 3. The Services Section
- B. Marine Corps Intelligence
- C. Intelligence Division of the Army
- D. Directorate of Intelligence, U.S. Air Force
- D. The Central Intelligence Agency
- F. The Joint Chiefs of Staff
- G. The Department of State
 - 1. Intelligence Activities of the State Department
 - 2. The Foreign Service

SCHEDULE OF LECTURES

16½ HOURS

The Organization of ONI	1 hour
Presented by: Intelligence Faculty	
The Intelligence Branch of ONI and the Foreign Section	2 hours
Presented by: Head of Foreign Section, ONI	
The Services Section of ONI	1 hour
Presented by: Head of Services Section, ONI	
Marine Corps Intelligence	1½ hours
Presented by: Marine Corps Highs GS	
Intelligence Division, Department of the Army	1½ hours
Presented by: Representative of ID/USA	
Directorate of Intelligence, Department of Air Force	1½ hours
Presented by: Representative of D/USAF	

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The Central Intelligence Agency

1½ hours

Presented by: Director's Staff, CIA

Joint Activities and the Joint Chiefs of Staff

1½ hours

Presented by: Member of Joint Staff

Organization and Functioning of the Department of State

2 hours

Presented by: Assistant Director, Foreign
Service Institute

Intelligence Activities of the Department of State

1 hour

Presented by: Director, Office of Libraries
and Intelligence Acquisition

Coordination of Government Activities Overseas

2 hours

Presented by: Assistant Director, Foreign
Service Institute

Training Films:

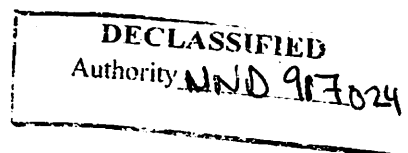
The Foreign Service - Operation of an Overseas Mission

Required Reading:

ONI Organization Chart (Restricted)
National Security Act of 1947 as modified by Act of 1949
ONI 19B, Chapters I, II, III, XII
NavPers 16047, Chapters I, II, III, XVI
Organization and Functions of the Intelligence Division
General Staff, Department of the Army (Confidential)
The Foreign Service, June 1, 1948
Formalities in Official Life Abroad (Restricted)
Chart of a Diplomatic Mission

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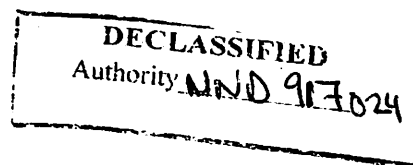


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STRATEGIC APPLICATION
of
INTELLIGENCE

This course is designed to give students an understanding of the application of intelligence to strategic planning on a national or high command level and an appreciation of its importance in international affairs. The classroom instruction covers in detail the component factors of strategic intelligence, the agencies which produce it and the manner in which the basic intelligence cycle works at strategic levels. Practical work consists of student preparation of strategic intelligence studies of a current international problem.

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STRATEGIC APPLICATIONS OF INTELLIGENCE

GENERAL OUTLINE

- A. Strategy and its Supporting Intelligence
- B. The Component Factors of Strategic Intelligence
 - 1. Geographic or topographic
 - 2. Political
 - 3. Sociological
 - 4. Economic
 - 5. Transportation and Telecommunications
 - 6. Technical and Scientific
 - 7. Armed Forces
 - 8. Biographic or Personalia
- C. The Intelligence Cycle at the Strategic Level
 - 1. Strategic Intelligence Planning
 - 2. Collection of Strategic Intelligence
 - 3. Processing of Strategic Intelligence
 - 4. Dissemination of Strategic Intelligence
 - 5. Uses of Intelligence in Strategic Estimate

CLASSROOM PRACTICAL WORK

3½ DAYS

- A. Preparation of a strategic intelligence study on a problem of current international importance, involving student application of research, analysis and presentation of intelligence materials.

SCHEDULE OF LECTURES

26 HOURS

Strategy and its Supporting Intelligence 1 HOUR

Presented by: Intelligence Faculty

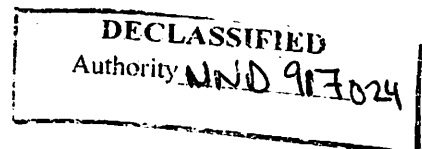
The National Intelligence Surveys 1½ HOURS

Presented by: Chief, Basic Intelligence
Group, Central Intelli-
gence agency

General Geographic Intelligence 1 HOUR

Presented by: Representative of
ID/GSUSA

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SCHEDULE OF LECTURES (Continued)

Coast and Landing Beach Intelligence	1½ HOURS
Presented by: Staff Member, Amphibious Unit, Op322F4C	
Port and Harbor Intelligence	1½ HOURS
Presented by: Staff Member, Amphibious Unit, Op322F4D	
Transportation Intelligence	1 HOUR
Presented by: Representative of ID/GSUSA	
Telecommunications Intelligence	1½ HOURS
Presented by: Representative of Signal Corps, USA - Representative of DNC, Op 20.	
Economic Intelligence and Economic Warfare	1½ HOURS
Presented by: Staff Member, Industrial College of the Armed Forces	
Sociological Intelligence	1 HOUR
Presented by: Intelligence Faculty	
Biographic Intelligence	1 HOUR
Presented by: Staff Member, O.I.R., Dept. of State	
Political Intelligence	1½ HOURS
Presented by: Political Analyst, Op322N	
The Intelligence Cycle at the Strategic Level	1½ HOURS
Presented by: Intelligence Faculty	
Strategic Intelligence Planning	1 HOUR
Presented by: Intelligence Faculty	
Domestic Collection of Strategic Intelligence	1½ HOURS
Presented by: Chief, Contact Branch, CIA	

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SCHEDULE OF LECTURES (Continued)

The Naval Attache System 1 HOUR
Presented by: Intelligence Faculty

Foreign Collection of Strategic Intelligence 1 HOUR
Presented by: Head, Collection Unit
Op322H2

Functions of a Naval Attache Office 2 HOURS
Presented by: Two Officers recently
returned from Naval
Attache duty

Strategic Intelligence Functions of Civilian
Government Agencies 1 HOUR
Presented by: Intelligence Faculty

Processing of Strategic Intelligence 1½ HOURS
Presented by: Representative of Op322F

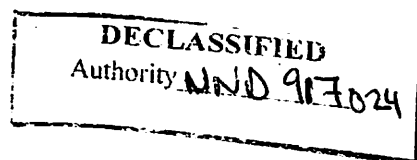
Dissemination of Strategic Intelligence 1½ HOURS
Presented by: Head, Dissemination Unit,
Op322H

Intelligence in Strategic Estimates 1 HOUR
Presented by: Staff Member, Op322N

Required Reading:

NAVAL INTELLIGENCE (NAVPERS 16047) - 5 chapters
DUTY ON FOREIGN POSTS (ONI F-1) - complete
NAVAL INTELLIGENCE MANUAL (ONI 19(b)) - 6 chapters
NAVAL INTELLIGENCE COLLECTION INSTRUCTIONS - complete
DICTIONARY OF U.S. MILITARY TERMS FOR JOINT USAGE - 1948 portions

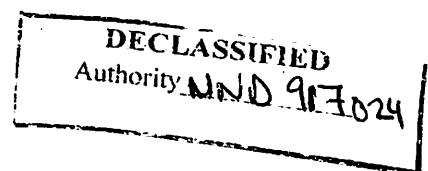
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APPLICATION OF INTELLIGENCE
to
NAVAL OPERATIONS

This course provides instruction in the application of the intelligence process to Surface (including Anti-Submarine Warfare), Amphibious and Submarine operations. It also includes instruction in sources of operational intelligence not covered elsewhere in the curriculum.



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APPLICATION OF INTELLIGENCE
TO NAVAL OPERATIONS

GENERAL OUTLINE

- A. Organization and Functions of Operational Intelligence Agencies
- B. The Role of Intelligence in the Solution of the Military Problem
 - 1. The Intelligence Estimate
 - 2. The Intelligence Collection Plan
 - 3. The Intelligence Annex of an Operation Order
 - 4. The Running Estimate
- C. Intelligence in Submarine Operations
 - 1. New Developments in Undersea Warfare
 - 2. Collection and Use of Intelligence by Submarines
- D. Intelligence in Amphibious Operations
- E. The Use and Collection of Intelligence by:
 - 1. Underwater Demolition Teams
 - 2. Amphibious Reconnaissance Patrols
- F. Intelligence in Anti-Submarine Warfare Operations

CLASSROOM PRACTICAL WORK

Operational Intelligence Problem
(Preparation of an Intelligence Estimate and Collection Plan by each student for hypothetical situation.)

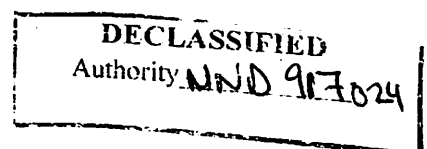
$\frac{1}{2}$ DAY

FIELD TRIPS

- A. U.S. Naval Submarine Base, New London Connecticut 5 DAYS
 - 1. Submarine Capabilities and Limitations
 - 2. Submarine Tactics and Employment in a Future War
 - 3. Intelligence Requirements for Submarine Operations
 - 4. The Submarine as an Intelligence Collection Agency (Visual and Photo Reconnaissance; Mine, Sonar and Radar Detection; Landing Reconnaissance Patrol)
 - 5. Practical Demonstration and Participation by Students in Submarine Underway

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X-1



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FIELD TRIPS (Continued)

- B. Fleet Sonar School, Key West, Florida 5 DAYS
1. ASW Tactics and Equipment
 2. Intelligence Requirements of ASW Operations
 3. New Developments and Special Weapons
 4. Student Participation in Training Attacks in ASW Vessels Underway
 5. Inspection and Demonstration of Airborne ASW Planes, Techniques and Equipment

SCHEDULE OF LECTURES

17 HOURS

Basic Purpose, Organization and Functions of Operational Intelligence 1 hour

Presented by: Intelligence Faculty

Organization and Functions of the Operational Section of ONI 1 hour

Presented by: Head of Operational Section, ONI

Organization and Functions of a Fleet Intelligence Center 1 hour

Presented by: Head of Estimates and Coordination Section, Lant Flt Intel Center

Organization and Functions of a Naval District Operational Intelligence Section 1 hour

Presented by: Intelligence Faculty

Preparation and Use of the Intelligence Estimate 2 hours

Presented by: Intelligence Faculty

Preparation and Execution of an Intelligence Collection Plan 1 hour

Presented by: Intelligence Faculty

Preparation of the Intelligence Annex of an Operation Order or Plan 1 hour

Presented by: Intelligence Faculty

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SCHEDULE OF LECTURES (Continued)

Maintaining the Running Intelligence Estimate Including Use of Journals, Work Sheets, Situation Plots, etc. 1 hour

Presented by: Intelligence Faculty

Developments in Undersea Warfare 2 hours

Presented by: Representative of ACNO
(Undersea Warfare)

Intelligence Requirements and Procedures for an Amphibious Operation 3 hours

Presented by: Intelligence Section,
Amphibious Warfare School,
MCS, Quantico, Va.

Intelligence Functions and Requirements of the Underwater Demolition Teams 1 hour

Presented by: Representative of Commander,
Underwater Demolition Teams,
U.S. Atlantic Fleet

Amphibious Reconnaissance Patrol 1 hour

Presented by: Intelligence Faculty

Training Films:

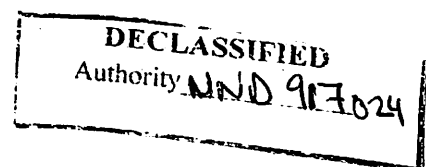
THE SUBMARINE: ITS CAPABILITIES AND LIMITATIONS
THE AMPHIBIOUS RECONNAISSANCE PATROL
AMPHIBIOUS OPERATIONS: ORGANIZATION AND GENERAL CONCEPT
UDT OPERATIONS BALIKPAPAN
UNDERWATER RECONNAISSANCE

Required Reading:

ONI Y-1 (Confidential)
COMBAT INTELLIGENCE (C&GSS) (Restricted)

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*APPLICATION OF INTELLIGENCE
to
NAVAL AIR OPERATIONS*

This course provides instruction in the general concept of intelligence in naval air operations, the manner of employment of such intelligence, and those duties currently assigned as the responsibility of Air Intelligence Officers in the Naval Establishment.

The classroom instruction, in addition to practical work, covers the intelligence requirements for naval air operations, and the treatment in detail of those subjects related to air intelligence which are not covered elsewhere in the curriculum.

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APPLICATION OF INTELLIGENCE TO NAVAL AIR OPERATIONS

GENERAL OUTLINE

- A. Air Intelligence Description
- B. Air Intelligence Collection, Production, and Dissemination
- C. Air Intelligence Subjects
 - 1. Foreign Air Order of Battle Requirements
 - 2. Target Intelligence
 - 3. Flak Intelligence
 - 4. Radar Intelligence
 - 5. Technical Air Intelligence
 - 6. Search and Rescue and Survival
 - 7. Escape and Evasion
- D. Air Intelligence Requirements of Naval Air Operations
 - 1. Application of Intelligence to Offensive Air Operations
 - a. Air Strikes Operations
 - b. Anti-Submarine Operations
 - c. Close Air Support of Troops
 - 2. Application of Intelligence to Defensive Air Operations
 - a. Command Operations Center
- E. Duties of Air Intelligence Officers
 - 1. Staff Air Intelligence Officers
 - 2. Ship Air Intelligence Officers
 - 3. Group and Squadron Air Intelligence Officers
 - 4. Air Intelligence Library and Materials

CLASSROOM PRACTICAL WORK

- A. Briefing, Interrogating and Reporting Operational Problem $\frac{1}{2}$ Day

FIELD TRIPS

- A. FLEET AIRBORNE ELECTRONICS TRAINING UNIT, ATLANTIC 2 Days
 - 1. Aircraft Navigational Radar
 - 2. Aircraft Early Warning
 - 3. Anti-Submarine Warfare
 - 4. Radar Training
 - 5. Radar Countermeasures
- B. NAVAL AIR TEST CENTER, PATUXENT RIVER, MD. 1 Day
 - 1. Command Operations Center
 - 2. Electronics Division
 - 3. Flight and Tactical Test Units
 - 4. Flight Demonstration of Aircraft and Armament

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SCHEDULE OF LECTURES

36 HOURS

Description and Concept of Air Intelligence in Naval Air Operations 2 hours

Presented by: Intelligence Faculty

Air Intelligence Collection, Production, and Dissemination 1 hour

Presented by: Head, Collection Unit
ONI

Air Intelligence Collection Relationship between U.S. Navy and U.S. Air Force 1 hour

Presented by: Representative from
Air Intelligence Division
(DI/USAF-ONI)

Analysis of Air Order of Battle Requirements and the Production of Such Intelligence 3 hours

Presented by: Representatives from
Air Intelligence Division
(DI/USAF-ONI)

Air Target Selection Methods

Presented by: Representative from 1 hour
Air Intelligence Division
(DI/USAF-ONI)

Target Materials -- The Air Objective Folder Program 1 hour

Presented by: Representative from
Air Intelligence Division
(DI/USAF-ONI)

Flak Intelligence -- Construction of Flak Computer 2 hours

Presented by: Representative from
Training Department
Photo Interpretation Center

Anti-Aircraft Weapons -- Past, Present, and Future 1 hour

Presented by: Representative from Air
Intelligence Division, USAF

Radar Scope Interpretation 3 hours

Presented by: Representatives from
Training Department
Photo Interpretation Center

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Capabilities and Limitations of Airborne Electronics Equipment -- Current Design and Development 1 hour

Presented by: Representative From
Radar Design Branch
Bureau of Aeronautics

Air-Sea Rescue and Survival 1 hour

Presented by: Representative from
Search and Rescue
Agency, USCG

Escape and Evasion Intelligence 1 hour

Presented by: Representative from
Air Intell. Req. Div.
USAF

Employment of Intelligence in Naval Operations 1 hour

Presented by: Intelligence Faculty

Naval Aircraft Operations -- Design and Development 2 hours

Presented by: Representative from
Fighter Design Branch
Bureau of Aeronautics

Aircraft Employment in Anti-Submarine Warfare 2 hours

Presented by: Representative from
Undersea Warfare Div.
ONC

Phases of Tactical Air Operations 1 hour

Presented by: Representative from
Amphibious Warfare School
U.S. Marine Corps Schools
Quantico, Va.

Capabilities and Limitations of Support Aircraft and the Tactics Employed in Amphibious Operations 1 hour

Presented by: Representative from
Amphibious Warfare School
U.S. Marine Corps Schools
Quantico, Va.

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Principles of Air Defense

1 hour

Presented by: Representative from
Amphibious Warfare School
U.S. Marine Corps Schools
Quantico, Va.

Close Air Support in Amphibious Operations

2 hours

Presented by: Representative from
Amphibious Warfare School
U.S. Marine Corps Schools
Quantico, Va.

Duties of Staff Air Intelligence Officers

1 hour

Presented by: Intelligence Faculty

Duties of Ship Air Intelligence Officers

1 hour

Presented by: Intelligence Faculty

Duties of Group and Squadron Air Intelligence Officers

3 hours

Presented by: Intelligence Faculty

Air Intelligence Library and Materials

2 hours

Presented by: Intelligence Faculty

Required Reading:

Air Order of Battle (Restricted)
Role of Intelligence in the Conduct of Air Warfare (Restricted)
Flak Intelligence Memo No. 5 (Confidential)
Interpretation and Use of Radar Scope and Television Photos (Restricted)
Radar Countermeasures (Restricted)
Naval Aviation News, August 1949, pp. 16-17 (Restricted)
Anti-Submarine Warfare and Operations (Restricted)
Naval Aviation Confidential Bulletin, No. 3-48
Search and Rescue (Restricted)
Production and Use of Air Intelligence (Restricted)
ONI 19(B) Art. 6004; 6005; 6008; 6010 (Confidential)
Resisting Enemy Interrogation (Restricted)
Excerpts from COMFIRSTCARTASKFORPAC Operation Order No. 11-44 (Secret)
Excerpts from CINCPAC-CINCPAC Bulletin No. 119-44 (Confidential)
Excerpts from Escape and Evasion Manual (Secret)
Reports (Confidential)
Form ACA-1 (Restricted)
Form ASW-6 (Confidential)

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COUNTER INTELLIGENCE

This course provides instruction in Counter Intelligence organization, activity and methods. The Counter Intelligence agencies of the U. S. Government; FBI, ONI, Army CIC, and Air Force Inspector General, all participate in bringing to the students the latest developments and methods in the Counter Intelligence field, and their organizations for maintaining the security of the U. S.

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COUNTER INTELLIGENCE

GENERAL OUTLINE

- A. Counter Intelligence Functions of ONI
 - 1. Investigations
 - 2. Protection of Naval Establishment against Sabotage, Espionage and Counter Espionage
 - 3. Security, Policy and Control
 - 4. Commerce and Travel Security
 - 5. The Naval District Intelligence Office
- B. The Federal Bureau of Investigation
 - 1. Jurisdiction and Functions
 - 2. The Identification Division
 - 3. Sabotage Techniques and Devices
 - 4. Interrogation
 - 5. Searches of Places and Persons
 - 6. Investigation Techniques
- C. Counter Intelligence in the Air Force
- D. The Counter Intelligence Corps of the Army
 - 1. Mission and Organization
 - 2. Undercover Operations
 - 3. Defense Against Military Entry

FIELD TRIP

2 WEEKS

- A. District Intelligence Office

Informal instruction in and observation of the activities of a D.I.O., including student participation with the guidance of D.I.O. personnel, in actual investigative work.

SCHEDULE OF LECTURES

41 HOURS

Counter Intelligence Function of ONI

1½ hours

Presented by: Head of Security Branch, ONI

1½ hours

Investigations Section of ONI

Presented by: Head of Investigations Section, ONI

1½ hours

The SEC Section of ONI

Presented by: Head of SEC Section, ONI

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Security-Policy and Control Section	1½ hours
Presented by: Head of Policy and Control Section, ONI	
Commerce and Travel Section of ONI	2 hours
Presented by: Wartime Head of Section, ONI	
The Naval District Intelligence Office	1 hour
Presented by: Intelligence Faculty	
The Jurisdiction of the FBI	1 hour
Presented by: FBI Special Agent	
Function of the Identification Division, FBI	3 hours
Presented by: Head of the Identification Division, FBI	
Documents, Codes, and Cyphers	2 hours
Presented by: FBI Agent	
Sabotage Techniques and Devices	1 hour
Presented by: FBI Agent	
Sound and Electrical Equipment	2 hours
Presented by: FBI Agent	
Interrogation	1 hour
Presented by: FBI Agent	
Surveillances	1 hour
Presented by: FBI Agent	
Searches of Persons	2 hours
Presented by: FBI Agent	
Searches of Places	
Presented by: FBI Agent	

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Crime Scene Searches	2 hours
Presented by: FBI Agent	
Investigative Techniques	2 hours
Presented by: FBI Agent	
Counter Intelligence in the Air Corps	2 hours
Presented by: Deputy Chief of Office of Special Investigations, USAF	
The Mission and Organization of the CIC	1 hour
Deputy Chief of CIC School	
The Use of Informants	2 hours
Presented by: Instructor of CIC School	
Observation and Description	3 hours
Presented by: Instructor, CIC School	
Undercover Operations	1 hour
Presented by: Instructor, CIC School	
Defense Against Military Entry	1 hour
Presented by: Instructor, CIC School	
Physical Security of Installations	1 hour
Presented by: Instructor, CIC School	
Interrogation Techniques	2 hours
Presented by: Instructor, CIC School	

Required Reading:

ONI T-2-10, Training Manual for Personnel Assigned to Investigations

Sections of Naval Intelligence

Series of Letters of Delimitation Agreement and Investigative Responsibilities

Naval Intelligence Training Directive ONI D-4-T

Foreign Merchant Vessel Data Card

Interrogations, by CIC School, dated 1 June 1949 (Restricted)

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Personal Description Pamphlet, by CIC School
Functional Chart of Counter Intelligence Corps
The Mission and Organization of the CIC
Use of Informants, by CIC School (Restricted)
(In addition the Archives contain many books on the subject
of Counter Intelligence and Intelligence Methods of Foreign Nations)
ONI F-4 Commerce and Travel Activities of Naval Intelligence

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OPERATIONAL FUNCTIONS OF COMMAND

The course is presented by the U.S. Naval War College and consists of necessary instruction followed by student solution of a Naval War College Operations Problem on the level of Fleet Commander. It provides the student with an appreciation of the command function in the solution of a military problem. Naval War College representatives supervise all student work and conduct complete critique of student solutions.

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OPERATIONAL FUNCTIONS OF COMMAND

GENERAL OUTLINE

- A. The Estimate of the Situation
- B. The Development of the Plan
- C. The Preparation of the Directive

CLASSROOM PRACTICAL WORK

- A. Preparation of the Estimate of the Situation 9 DAYS
- B. Development of the Plan 2 Days
- C. Preparation of Directive (Operation Order and Annexes) 2 Days
- D. Preparation of Solutions for Oral Presentation 3 Days
- E. Conduct of Complete Critique 1 Day

SCHEDULE OF LECTURES

Study of the Strategic Area of the Problem 5 HOURS

Presented by: Intelligence Section
U.S. Naval War College

Preparation and Use of the Estimate of the Situation 1 hour

Presented by: Operations Section
U.S. Naval War College

Development of the Plan 1 hour

Presented by: Operations Section
U.S. Naval War College

Preparation of the Directive 1 1/2 hours

Presented by: Operations Section
U.S. Naval War College

Required Reading:

NAVAL MANUAL OF OPERATIONAL PLANNING (Restricted)

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*NAVAL GUNFIRE SUPPORT
of
AMPHIBIOUS OPERATIONS*

This course presents to the student a familiarity with Naval Gunfire Support, in order that he will understand its functions, capabilities and limitations. Special emphasis is placed on the intelligence needs and capabilities of administrative and field activities of both fleet and troop units.

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NAVAL GUNFIRE SUPPORT OF
AMPHIBIOUS OPERATIONS

GENERAL OUTLINE

- A. Capabilities, Limitations and Employment of Naval Gunfire
- B. Organization of Naval and Landing Force Units in an Amphibious Operation
- C. Intelligence in Naval Gunfire Support

CLASSROOM PRACTICAL WORK

- A. Problem Covering All Phases of Naval Gunfire Support and Landing Force Movement in an Amphibious Operation 1 DAY

SCHEDULE OF LECTURES

- History of Naval Gunfire Support 10 HOURS
Presented by: Instructor from Gunfire Support School, Naval Amphibious Base, NorVa. 1 hour
- Capabilities and Limitations of Naval Gunfire 1 hour
Presented by: Instructor from Gunfire Support School, Naval Amphibious Base, NorVa. 1 hour
- Organization of Joint Amphibious Task Force 2 hours
Presented by: Instructor from Gunfire Support School, Naval Amphibious Base, NorVa. 1 hour
- Landing Force Organization and Staff Procedures 1 hour
Presented by: Instructor from Gunfire Support School, Naval Amphibious Base, NorVa.
- Intelligence in Naval Gunfire Support
Presented by: Intelligence Faculty

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SCHEDULE OF LECTURES (Continued)

Target Analysis

2 hours

Presented by: Instructor from Gunfire
Support School, Naval
Amphibious Base, NorVa

Employment of Naval Gunfire Support

2 hours

Presented by: Instructor from Gunfire
Support School, Naval
Amphibious Base, NorVa

Training Films:

ORGANIZATION AND CONCEPT OF AMPHIBIOUS OPERATIONS
NAVAL GUNFIRE, PART I
NAVAL GUNFIRE, PART II
THE NAVAL GUN AT IWO JIMA

Required Reading:

USF 6 (Confidential)
USF 63 (Confidential)
USF 66 (Confidential)

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TACTICAL COVER AND DECEPTION

This course provides the student with an appreciation of the basic planning and use of Tactical Cover and Deception and an understanding of the responsibilities of Intelligence in this field.

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TACTICAL COVER AND DECEPTION

GENERAL OUTLINE

- A. Principles and Types of Tactical Cover and Deception
- B. Intelligence Responsibilities in Planning and Detecting Deception
- C. Execution and Planning of Deception

SCHEDULE OF LECTURES

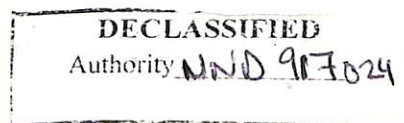
	5 HOURS
Principles of Tactical Cover and Deception	1 hour
Presented by: Intelligence Faculty	
Intelligence Responsibilities and Methods in Planning and Detecting Deception	1 hour
Presented by: Intelligence Faculty	
Execution and Planning of Cover and Deception	3 hours
Presented by: Operational Security Officer (Strategic Plans Division of CNO)	

Training Films:

SONIC DECEPTION (Confidential)

Required Reading:

USF 14 (Secret)
INTELLIGENCE REPORTS OF NAVAL ATTACHE, MOSCOW (Secret)



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PSYCHOLOGICAL WARFARE

This course provides an acquaintance with Psychological Warfare, its sources of information, means of dissemination, and relationship with Intelligence Organizations both as a source of information and user of the intelligence product.

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PSYCHOLOGICAL WARFARE

GENERAL OUTLINE

- A. Policy
- B. Planning
- C. Contents
- D. Operational Use

SCHEDULE OF LECTURES

6 HOURS

1½ hours

Psychological Warfare Policy

Presented by: Representative of Office
of Intelligence Estimates
Dept. of State

1½ hours

Planning Psychological Warfare

Presented by: Staff Members
Brookings Institution

1½ hours

Content of Psychological Warfare
Programs in the War Theater

Presented by: Representative of Division of
Research for Europe, State Dept.
Former Head of Pamphlet Section,
SHAEE

1½ hours

Operational Aspects of Psychological Warfare

Presented by: Professor of Far Eastern Affairs,
Institute of Advanced Inter-
national Studies, also Special
Consultant on PW to Chief of
Staff, USA.

Required Reading:

PSYCHOLOGICAL WARFARE

One of many books on subject available in Intelligence Archives

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PHOTOGRAPHIC INTERPRETATION

This course provides the student officer with a background in the fundamentals of photographic interpretation, and an introduction to its practical use from an intelligence standpoint. The classroom lecture instruction includes the interpretation of aerial photographs through the preliminary evaluation stage, and the preparation of PI reports.

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PHOTOGRAPHIC INTERPRETATION

GENERAL OUTLINE

- A. The Naval Photographic Intelligence Organization
- B. Aerial Photography and Photogrammetry
- C. Lecture Series in Photo Interpretation
- D. Preparation of Photo Interpretation Comprehensive Report

CLASSROOM PRACTICAL WORK

3 hours

- A. Interpretation of Photographs
 - 1. Harbors and Ship Types
 - 2. Ship Speeds
 - 3. Fixed Defenses
 - 4. Airfields
 - 5. Scale Determination, Flight Planning, Index Plotting
- B. Preparation of PI Report and Overlay of Landing Beaches and Enemy Defenses at Betio Island.

1 day

FIELD TRIPS

$\frac{1}{2}$ day

- A. PHOTOGRAPHIC INTERPRETATION CENTER
 - 1. Mosaic Construction
 - 2. Terrain Models
 - 3. Stereocomparagraph
 - 4. Stereoplanigraph
- B. NAVAL AIR TECHNICAL TRAINING UNIT, PENSACOLA, FLA.
 - 1. Photographic Film Characteristics
 - 2. Developing and Printing
 - 3. Camera Techniques
 - 4. Ground and Aerial Camera Types
 - 5. Flight Planning and Construction of Aerial Mosaic

5 days

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SCHEDULE OF LECTURES

24 HOURS

The following lectures are presented by representatives from the Naval Photographic Interpretation Center:

Introduction to Photographic Interpretation	1 hour
The Naval Photographic Intelligence Organization	1 hour
Research and Development in Photographic Interpretation	1 hour
Stereoscopy	1 hour
Aerial Photography and Photogrammetry	3 hours
Interpretation of Aerial Photographs	3 hours
Determination of the Speed of Ships from Aerial Photographs	1 hour
Harbor Analysis and Identification of Ship Types from Aerial Photographs	1 hour
Physiographic Forms	3 hours
Industrial Analysis and Damage Assessment	2 hours
Airfield Interpretation	1 hour
Underwater Depth Determination	1 hour
Interpretation of Fixed Defenses from Aerial Photographs	2 hours
Intelligence Requirements Fulfilled by Photo Interpretation in an Amphibious Assault	3 hours

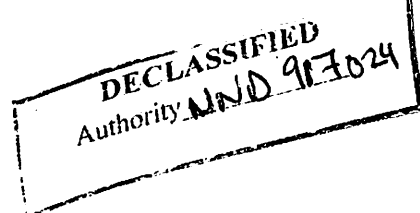
Training Films:

PHOTOGRAPHY IN INTELLIGENCE

Required Reading:

Photographic Intelligence Handbook
Photographic Interpretation Handbook

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HYDROGRAPHY and CARTOGRAPHY

This course provides basic instruction in the principles of hydrography and cartography, and emphasizes their use by intelligence in military operations.

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HYDROGRAPHY AND CARTOGRAPHY

GENERAL OUTLINE

- A. Collection of Hydrographic and Cartographic Data
- B. Map and Chart Classification and Symbols
- C. Use of Military Grids
- D. Computation of Map Scales
- E. Map Interpretation

1 DAY

CLASSROOM PRACTICAL WORK

- A. Practical Use of and Problems Involving:
 - 1. Construction of True Military and Broad Area Grid Systems
 - 2. Charts and Grids
 - 3. Computation of Natural, Nautical Mile, Meter and Yard Scales
 - 4. Contour Applications
 - 5. Sketch Mapping

FIELD TRIPS

$\frac{1}{2}$ DAY

- A. U.S. Navy Hydrographic Office
 - 1. Survey
 - 2. Records
 - 3. Navigational Service
 - 4. Photogrammetry
 - 5. Drafting
 - 6. Cartography
 - 7. Sailing Directions
 - 8. Notice to Mariners
 - 9. Pilot Chart
 - 10. Chart Revision
 - 11. Engraving
 - 12. Oceanography
 - 13. Publications (Air Nav)
 - 14. Aeronautical Chart

20 HOURS

SCHEDULE OF LECTURES

Basic Purpose of Cartography and Organization of U.S. Navy Hydrographic Office

1 hour

Presented by: Head of Instruction
Section, H.O

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Principles of Hydrographic Surveying	2 hours
Presented by: Head of Instruction Section, H.O.	
Various Types of Map Projection, Inherent Limitations and Desirable Properties	3½ hours
Presented by: Representative from Cartography Section, H.O.	
Properties and Application of True Military and Broad Area Grid Referencing Systems	2 hours
Presented by: Representative from Cartography Section, H.O.	
Charts and Grid Systems Used in Vieques Operation	1 hour
Presented by: Representative from Cartography Section, H. O.	
Analysis and Evaluation of Classifications and Features on Amphibious and Air Support Charts	2 hours
Presented by: Chart Editor, H. O.	
Map and Chart Symbols and Typographic Lettering on Military Charts	1 hour
Presented by: Chart Editor, H.O.	
Computation of Natural, Nautical Mile, Meter and Yard Scales	½ hour
Presented by: Chart Editor, H.O.	
Topographic and Hydrographic Features of Maps and Charts	2 hours
Presented by: Chart Editor, H.O.	
Methods of Domestic and Foreign Map Reproduction	½ hour
Presented by: Chart Editor, H.O.	
Contour Applications - Slope, Profile, Visibility	1 hour
Presented by: Head of Instruction Section, H.O.	

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Lecture and Practical Application of Sketch Mapping 1½ hour

Presented by: Head of Instruction
Section, H.O.

Landscape Sketching

1 hour

Presented by: Head of Instruction
Section, H.O.

Foreign Map Reading and Evaluation of Foreign Maps and
Charts 1 hour

Presented by: Chart Editor, H.O.

Required Reading:

Notes relating to above subjects prepared by the lecturers.

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OCEANOGRAPHY

This course is designed to present an appreciation of the military applications of this science. The lectures are based on the various phases of oceanographic activity and serve to acquaint the student with the interdependence of Intelligence and Oceanography.

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OCEANOGRAPHY

GENERAL OUTLINE

- A. Planning and Operational Phases of Oceanographic Intelligence
- B. Behavior of Tides and Currents

CLASSROOM PRACTICAL WORK

- A. Solution of Problems Involving Use of Tide and Current Tables

1 HOUR

5 HOURS

SCHEDULE OF LECTURES

Introduction to Oceanography and its Military Applications
Presented by: Representative from
Division of Oceanography, H.O.

1 hour

1 hour

Planning Phase of Oceanographic Intelligence
Presented by: Representative from
Division of Oceanography, H.O.

Operational Phase of Oceanographic Intelligence - Sub-surface
Operations
Presented by: Director of the
Division of Oceanography, H.O.

1 hour

Operational Phase of Oceanographic Intelligence - Amphibious
Operations
Presented by: Head of Marine Geography
Branch of Division of Oceanography, H.O.

1 hour

Tides and Currents
Presented by: Head of Training Section
U.S. Coast & Geodetic Survey

Required Reading:
Surf Manual (Cominch P-9)
Hydrographic and Oceanographic Matters as related to Amphibious Operations

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*APPLICATION OF AEROLOGICAL
INTELLIGENCE TO NAVAL OPERATIONS*

This course provides the student officer with sufficient knowledge of the procedures and methods employed in weather forecasting to insure the proper application of aerological intelligence in all phases of naval operations. The course consists of explanatory lectures, individual preparation and analysis of weather maps, and the solution of hypothetical military situations in which the factor of weather plays a predominate part.

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APPLICATION OF AEROLOGICAL INTELLIGENCE TO NAVAL OPERATIONS

GENERAL OUTLINE

- A. Application of Aerological Intelligence to Naval Operations
- B. Lecture Series in Aerology

CLASSROOM PRACTICAL WORK

- A. Weather Map Construction and Analysis 1½ days
- B. Aerological Intelligence Operational Problem ½ day

FIELD TRIPS

- A. ATLANTIC FLEET WEATHER CENTRAL 1 DAY
 - 1. Organization and Functions of a Fleet Weather Central
 - 2. Collection and Dissemination of Weather Information to Fleet Activities
 - 3. Demonstration of Synoptic, Pibald, and Radiosonde Observations
 - 4. Demonstration of Weather Communications Network and Equipment

SCHEDULE OF LECTURES

Application of Aerological Intelligence to Naval Warfare
Presented by: Head, Navy Aerological Service 1 hour

Duties and Functions of the Staff Aerological Officer
Presented by: Representative from Staff, Armed Forces Staff College 1 hour

Aerological Research and Development
Presented by: Representative from Navy Aerological Service 9 hours

Lecture Series in Aerology and Weather Map Construction and Analysis
Presented by: Representative from Navy Aerological Service

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Training Films:

Weather at War

Required Reading:

Aerology (Restricted)
Air Masses and Fronts
The Cold Front
The Equatorial Front
Typhoons and Hurricanes
Aerology for Pilots
The Warm Front
The Occluded Fronts
Thunderstorms

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PRISONER OF WAR INTERROGATION

This course familiarizes students with the techniques and capabilities of prisoner of war interrogation as conducted during World War II, and indicates methods which may be adopted in the future.

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PRISONER OF WAR INTERROGATION

GENERAL OUTLINE

- A. Techniques Employed
- B. Physical Handling and Processing
- C. Facilities and Personnel Required
- D. Jurisdiction

3 HOURS

SCHEDULE OF LECTURE

Prisoner of War Interrogation

Presented by: Head of Technical Section of
Technical Unit, ONI, who
was Chief Naval POW Interro-
gator in Washington during
World War II

Training Films:

Resisting Enemy Interrogation

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COMMUNICATIONS INTELLIGENCE

This course familiarizes student officers with the methods and techniques of Communications Intelligence, and its use as an intelligence source.

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COMMUNICATION INTELLIGENCE

GENERAL OUTLINE

- A. General Introduction
- B. Activities Afloat and in the Field
- C. Cryptanalysis
- D. Traffic Analysis

SCHEDULE OF LECTURES

Communication Intelligence, General Introduction	9½ HOURS
Presented by: Deputy Chief of Armed Forces Security Agency	2½ hours
Communication Intelligence Activities in the Field and Afloat	2 hours
Presented by: Head of Supplementary Activities Branch of Naval Communications	2½ hours
Cryptanalysis	1½ hours
Presented by: Special Assistant for Communication Intelligence to Armed Forces Security Agency	
Traffic Analysis	
Presented by: Head of Traffic Analysis Division of Naval Communications and of Armed Forces Security Agency	

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*TECHNICAL AND SCIENTIFIC
INTELLIGENCE*

This course covers the collection, production and use of Technical and Scientific Intelligence. Instruction is provided to equip the student officer with a basic knowledge of new developments in fields of research of particular military importance.

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XXIII

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TECHNICAL AND SCIENTIFIC INTELLIGENCE

GENERAL OUTLINE

- A. Introduction to Technical and Scientific Intelligence
 - 1. Nature
 - 2. Collection, Production and Dissemination
- B. Technical and Scientific Intelligence Organization
 - 1. Navy
 - 2. Army
 - 3. Air Force
 - 4. The Technical Mission
 - (a) Alsos
 - (b) Nav Tech Mis EU
 - (c) Nav Tech Jap
- C. Technical and Scientific Endeavor
 - 1. The Scientific Method
 - 2. The Laboratory
- D. Fields of Interest
 - 1. Atomic Energy
 - (a) Theory
 - (b) Naval Aspects
 - (c) Intelligence Indications
 - (d) Radiological Safety
 - 2. Guided Missiles
 - 3. Electronics
 - 4. Chemical Warfare
 - 5. Biological Warfare
- E. Exploitation of Captured Documents

$\frac{1}{2}$ DAY

FIELD TRIPS

- A. Naval Research Laboratory
 - 1. Radar Counter Measures
 - 2. Dimensions of Observation of Radar
 - 3. Exhibits
- B. Naval Ordnance Laboratory
 - 1. Description
 - 2. Mechanical Testing
 - 3. Technical Equipment
 - 4. X-Ray Laboratory
 - 5. Plastic Laboratory
 - 6. Wind Tunnel
 - 7. Non-Magnetic Laboratory
 - 8. Ballistic Range

1 DAY

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SCHEDULE OF LECTURES

29 HOURS

Introduction to Technical Intelligence

1½ hours

Presented by: Intelligence Faculty

Introduction to Scientific Intelligence

1½ hours

Presented by: Intelligence Faculty

Technical and Scientific Intelligence in War

1½ hours

Presented by: Representative, Scientific
Section CIA

Technical and Scientific Intelligence during Peace

1½ hours

Presented by: Representative, Scientific
Section CIA

Captured Documents

1 hour

Presented by: Intelligence Faculty

The Technical Intelligence Unit

1 hour

Presented by: Head Technical Intell.
Unit ONI

Army Technical Intelligence

1 hour

Presented by: Representative, Technical
Section Intell. Div, GS USA

Technical and Scientific Intelligence in the Air Force

1 hour

Presented by: Representative, Scientific
Unit, AID USAF

The Technical Mission

1 hour

Presented by: Chief Coordinating Analyst
West Europe-Africa, Middle
East Unit ONI - former
Historian Nav Tech Mis EU

The Scientific Method

1½ hours

Presented by: Prof. of Scientific
History MIT

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The Office of Naval Research 1½ hours

Presented by: Director Naval Sciences
Division ONR

Theory of Atomic Energy 1½ hours

Naval Aspects of Atomic Energy 1½ hours

Presented by: Representative, Atomic
Energy Division, CNO

Intelligence Indications of Atomic Development 1½ hours

Presented by: Representative, Scientific
Section, CIA

Radiological Safety 1½ hours

Presented by: Representative, Atomic
Energy Division, CNO

Guided Missiles, Components 1½ hours

Guided Missiles, Propulsion 1½ hours

Presented by: Representative of ACNO
(Guided Missiles Division)

Radar Development 2 hours

Presented by: Representative from
Electronics Design and
Development Division, Buships

Chemical Warfare and Intelligence 2 hours

Presented by: Chief, Intelligence Branch
Chemical Corps, USA

Biological Warfare 1½ hours

Presented by: Ass't Director, Biological
Department, Chemical Corps,
USA

TRAINING FILMS

A SCRAP OF PAPER (Restricted)
OPERATION SANDY (Confidential)

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Required Reading

NavPers 16047 pp 71-76 (Restricted)

Notes on the Scientific Method

Critical Thinking

Excerpts from Conference of U.S. Naval Attaches - London (Secret)

The Path of Science

Science the Endless Frontier

Office of Naval Research

Organization of Science

The Technical Intelligence Unit (Confidential)

Introduction to Scientific and Technical Intelligence (Confidential)

Nucleonics for the Navy (Restricted)

Intelligence and Atomic Weapons (Confidential)

ONI Y3 (Confidential)

Guided Missiles, Air Objectives (Confidential)

U.S. Navy Guided Missile Program (Secret)

Development of Guided Missiles during World War II

Chemical Warfare Intelligence (Secret)

Biological Warfare Intelligence (Secret)

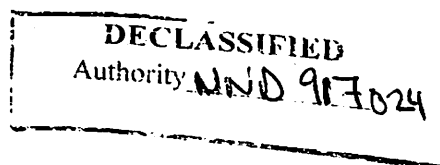
Brief Aids to Technical Intelligence (Confidential)

Exerpts from TAIC Hand Book No. 1 (Restricted)

History of Mission Nav Tech Jap (Restricted)

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FOREIGN FORCES AND EQUIPMENT

This course is designed to acquaint students with the categories of information on the military forces and equipment of foreign nations, with emphasis on their naval forces. There are presentations of background and up-to-date information by experts of the Army, Navy and Air Force intelligence organizations of the major and minor fleets of the world and of one major army and air force. This course serves to show what information is desired by ONI from attaches and fleet units on matters of particular naval interest, as well as providing a background to aid in on-the-spot and subsequent evaluation of such information. In addition it shows what information is important to the Army and Air Force should a naval officer also be responsible for such material on a foreign post.

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XXIV

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FOREIGN FORCES AND EQUIPMENT

GENERAL OUTLINE

- A. Introduction to Intelligence on Foreign Forces and Equipment
- B. Elements of Sea Power
- C. Foreign Forces and Equipment Intelligence on the Major and Minor Navies of the World
- D. Foreign Forces and Equipment Intelligence on a Major Foreign Air Force
- E. Fundamentals of Land Power Intelligence Reporting

15 1/2 HOURS

SCHEDULE OF LECTURES

Introduction to Intelligence on Foreign Forces and Equipment

Presented by: Intelligence Faculty

1 hour

Elements of Sea Power

Presented by: Intelligence Faculty

2 hours

British and British Commonwealth Navies

Presented by: Analyst, Foreign Navies Unit, ONI

1 hour

Aircraft Carrier Development in U.S.

Presented by: Representative of ACNO Plans, Ship Program

3 hours

Naval Situation in the World Today Including Minor Navies of the World

Presented by: Analyst, Foreign Navies Unit, ONI

2 hours

Soviet and Satellite Navies

Presented by: Military and Naval Coordinating Analyst, Soviet Union, ONI

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FOREIGN FORCES AND EQUIPMENT

GENERAL OUTLINE

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- B. Elements of Sea Power
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15 1/2 HOURS

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Presented by: Intelligence Faculty

1 hour

1 hour

Elements of Sea Power

Presented by: Intelligence Faculty

2 hours

British and British Commonwealth Navies

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3 hours

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Presented by: Analyst, Foreign Navies Unit, ONI

2 hours

Soviet and Satellite Navies

Presented by: Military and Naval Coordinating Analyst, Soviet Union, ONI

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SCHEDULE OF LECTURES (Continued)

Fundamentals of Low Level Intelligence Reporting

1½ hours

Presented by: Eurasian Branch,
Intelligence Group,
ID/GSUSA

Soviet Military Potential

2 hours

Presented by: Head of Eurasian Branch,
Intelligence Group,
ID/GSUSA

2 hours

Soviet Air Arm

Presented by: Representative from
AID (DI/USAF-ONI)

Training Films:

SNEAK CRAFT

Required Reading:

EXCERPTS FROM STRATEGIC INTELLIGENCE SCHOOL TEXT
ONI 222 - SHIPS OF BRITISH NAVY
ONI 222 - SHIPS OF RUSSIAN NAVY
HOW STRONG IS RUSSIA?
WEID - THE SOVIET UNION -

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FOREIGN INTELLIGENCE SYSTEMS

This course instructs students in the organization and operational methods of the intelligence services of the principal military powers of the world, from the end of World War I to the present. The capabilities, vulnerabilities and probable courses of action of current foreign intelligence systems is stressed.

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FOREIGN INTELLIGENCE SYSTEMS

GENERAL OUTLINE

- A. Introduction to Study of Foreign Intelligence Systems
 - 1. Intelligence and Security
 - 2. Nature and Function of Counter-Espionage
 - 3. Principles of Agent Operation
 - 4. Characteristics of Various Intelligence Services
- B. Foreign Intelligence Services
 - 1. Organization
 - 2. Methods and characteristics
 - 3. Capabilities, vulnerabilities and probable courses of action

26 HOURS

SCHEDULE OF LECTURES

All lectures presented by Representative of Op 322Y1	5½ hours
Introduction to Study of Foreign Intelligence Systems	3 hours
French Intelligence Services	2½ hours
Italian, Spanish, Latin American and other lesser services	3 hours
The German (National Socialist Era) Intelligence Systems	2½ hours
The Soviet Satellite and Yugoslav Intelligence Systems	2 hours
The Soviet Satellite and Yugoslav Intelligence Systems	1½ hours
The British Intelligence Services	2 hours
The Chinese (Kuomintang) Intelligence System	4 hours
The Japanese Intelligence System	
The Intelligence and Security Services of the USSR	

Required Reading:

Special Monographs on various foreign Intelligence Services prepared by the Office of Naval Intelligence.

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BRIEFING

This course provides the student with instruction and practical experience in the oral presentation of intelligence using approved techniques of public speaking and graphic displays.

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BRIEFING

GENERAL OUTLINE

- A. Techniques of Briefing and Public Speaking
- B. The Preparation and Use of Graphic Displays in Briefing
- C. Delivery by each student of four intelligence briefings

7 DAYS

CLASSROOM PRACTICAL WORK

*1 day

- A. Three-minute briefing by each student on a current event of interest. (Each briefing criticized extensively on speaking technique. Each briefing recorded and record presented to student for self-criticism) *2 days
- B. Ten-minute briefing by each student on a problem of STRATEGIC interest to the United States. Hypothetical audience: CNO and staff. Graded on: coverage, appropriateness of content and manner of presentation, use of visual aids, speaking technique. *2 days
- C. Ten-minute briefing by each student on intelligence of OPERATIONAL importance from World War II intelligence materials. Hypothetical audience: CINCPAC and staff. Graded on: coverage, appropriateness of content and manner of presentation, use of visual aids, speaking technique. *2 days
- D. Ten-minute briefing by each student on matters of INTELLIGENCE interest in a Naval campaign of World War II. Hypothetical audience: Members of a Joint Intelligence Staff. Graded on: validity of conclusions and text, appropriateness, use of visual aids, speaking technique.

*Includes preparation and presentation time allowed each student.

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5 HOURS

SCHEDULE OF LECTURES

All lectures are presented by the Intelligence Faculty and are of one hour's duration.

Public Speaking Techniques

Organization and Preparation of Intelligence Briefings

Preparation and Use of Graphic Displays

Application of Graphic Techniques to Intelligence Dissemination

Use of Printing and Reproduction Facilities in Intelligence Dissemination

Required Reading:

PRINCIPLES OF SPEECH (Military Edition) - MONROE

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COMPREHENSIVE INTELLIGENCE PROBLEM

The Comprehensive Problem provides students with practical experience in the solution of intelligence problems at all levels of strategic and operational command and gives students some familiarity with the strategic area of the world. The problem illustrates by functional exercises the various principles and techniques taught in the classroom and presents virtually all of the situations which would confront an actual Naval Intelligence agency or individual intelligence officer.

The prospectus for Intelligence Problem 1-50, "OPERATION SANDSTORM", is presented here as an illustration of the scope and organization of the problem. Situations and locale will be varied for each Intelligence class.

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INSTRUCTIONAL
USE ONLY

NAVAL INTELLIGENCE SCHOOL

INT 1-50

INTELLIGENCE PROBLEM 1-50

0-0-1 (1)

"OPERATION SANDSTORM"

1. PURPOSE

The purpose of Operation Sandstorm is to provide students of the Naval Intelligence School with practical experience in the solution of intelligence problems at all levels of strategic and operational command and to give students some degree of familiarity with a vital strategic area -- The Persian Gulf.

2. GENERAL DESCRIPTION OF THE PROBLEM

Operation Sandstorm involves a continuing and developing hypothetical situation, starting with a state of cold war and leading through increasingly strained relations to an actual state of war, the preparation and planning for, and the execution of an amphibious landing in the vicinity of the Persian Gulf. During the progress of the problem, students will be placed successively in the position of intelligence officers at different echelons of command and in various subsidiary and specialist jobs which are part of the Naval Intelligence process. Students will be called upon to perform, so far as practicable, all intelligence functions from the preparation of a Strategic Intelligence Area Study, to the maintenance of a running estimate of the situation during the period immediately following D-Day.

In general Operation Sandstorm is divided into seven broad phases and involves twenty-one separate intelligence exercises, each of which illustrates a different function performed by intelligence personnel. The phases and exercises are set forth in the following table together with the hypothetical situation for each phase.

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PROBLEM MATERIAL

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INT 1-50

OPERATION SANDSTORM

0-0-1 (2)

PROBLEM SCHEDULE IN BRIEF

INSTRUCTIONAL
USE ONLY

PHASE ABLE -- STRATEGIC PLANNING

Situation: (6 January 1952) A state of "cold war" exists between Blue-Red and Purple. Diplomatic threats by Purple against Mid-East countries. Purple and satellites leave UN. Blue-Red negotiations with Mid-East nations for peaceful occupation. Purple demands on Turkey. JCS initiates planning for occupation of Persian Gulf areas.

Ex. No.	Exercise Description	Student Position	Days & Method	Solution or Critique
1.	Strategic Area Study of Persian Gulf	Op322F(ONI) & Joint Committee	4½ (Com)	Sol & Crit.
2.	Strategic Intelligence Estimate	JIC "Red" Team	1 (Com)	Sol & Crit.
3.	Strategic Intelligence Collection Plan	Op322H2B1 & Op322H2B2 (ONI)	1 (Ind)	Critique
4.	Naval Attache Reports	N.A. or L.O. in Mid-East posts	2 (Ind)	Sol & Crit.
5.	Estimate of Purple intelligence Capabilities	Op322Y1 & Op321E (ONI)	1 (Com)	Sol & Crit.
6.	Psychological Warfare Background	Op322F1B(ONI)	1 (Ind)	Critique

PROBLEM MATERIAL

PHASE BAKER -- INTELLIGENCE ORGANIZATION PLANNING

Situation: (1 February 1952) Phase Able Situation continues. Occupation Force (Blue-Red) assembling East Coast ports. Commander and staff designated. Commander initiates staff organizational planning.

Ex. No.	Exercise Description	Student Position	Days & Method	Solution or Critique
7.	Joint Intelligence Center Organization	Intel. Officer COM3rdTskFlt & CINCINDOA (Norva)	2 (Com)	Solution
8.	Intel. Responsibilities of Planning Schedule	(same)	1 (Com)	Critique

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DATE: 10/10/2001

INT 1-50

PROBLEM SCHEDULE IN BRIEF (Con't)

0-0-1-(3)

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PHASE BAKER -- INTELLIGENCE ORGANIZATION PLANNING (Con't)

Ex. No.	Exercise Description	Student Position	Days & Method	Solution or Critique
9.	Intelligence Standard Operating Procedures	Intel. Officer COM3rdTskFlt & CINCINDOA (Norva)	1 (Com)	Sol & Crit.
10.	Counter Intelligence Functions	Intel Officer 3rdTskFlt & Others	$\frac{1}{2}$ (Ind)	Sol & Crit.

PHASE CHARLIE -- OPERATIONAL PLANNING

Situation: (9 March 1952) Purple commences hostilities 5 March 1952 by occupying Iran, Iraq and Saudi Arabia with airborne troops. Blue-Red commander (CINCINDOA) receives mission from JCS. CINCINDOA initiates operational planning.

Ex. No.	Exercise Description	Student Position	Days & Method	Solution or Critique
11.	Intelligence Estimate	Intel. Officer 3rdTskFlt & CINCINDOA	4 (Ind)	Critique
12.	Operational Cover Plan	(same)	1 (Com)	Critique
13.	Intelligence Collection Plan	(same)	2 (Ind)	Sol & Crit.

PHASE DOG -- PREPARATION OF THE DIRECTIVE

Situation: (30 March 1952) Operation objective area designated. Intelligence Center at Mombassa. Commander and staff at Norfolk. Commander directs preparation of Operation Plan and Annexes.

Ex. No.	Exercise Description	Student Position	Days & Method	Solution or Critique
14.	Intelligence Annex	Intel. Officer Com3rdTskFlt & CINCINDOA	3 (Com)	Critique

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PROBLEM MATERIAL

PERCEPTION TRAINING

This program has been incorporated in the curriculum as a means of accelerating student reading rate, and increasing comprehension. Daily training sessions of thirty minutes each are conducted throughout the term.

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LANGUAGE TRAINING

The Language Division of the Intelligence School offers instruction in eleven foreign languages leading to qualification of the student officer as an Interpreter-Translator. Students of the Language Division include graduates of the Intelligence course and special students from the Navy, Army, Air Force and civilian agencies.

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NAVAL INTELLIGENCE
CORRESPONDENCE COURSE

This course, available to active duty officers of all of the Armed Services and intelligence specialists of the Reserve components, provides basic instruction in the subject matter, processes, and organization of Naval Intelligence for those officers who do not have the opportunity of attending the Regular course.

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Appendix A