

NCI AGENCY

NATO PROGRAMMING CENTRE

ISP SYSTEM ADMINISTRATION COURSE



SYLLABUS IAD – 12 – X (3.3.X)

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C-SPD – Chief Support Division

H-TRB – Head of Training Branch

C-ITS – Chief of Individual Training Section

ISP PL – ISP Project Leader

ISP – ISP Instructors

HES – Hardware Engineering Section

INDEX

PART I - INTRODUCTION.....4
PART II - ALLOCATION OF TIME.....7
PART III - SUMMARY OF COURSE CONTENT9
PART IV - PUBLICATIONS, EQUIPMENT AND RESOURCES.....12
PART V - ASSESMENT STRATEGY13
PART VI - CLASS SIZE.....14

PART I - INTRODUCTION

1. Aim of the course.

The aim of the Integrated Simulation Package (ISP) System Administration Course is to equip System Administrators with the knowledge and skills required for successful implementation and support of the ISP technology. The course explains the process of installing and configuring the product, and includes case studies that address which configuration settings are optional for a variety of customer needs.

2. Summary of Training Requirements.

The ISP System Administrator course for the baseline ISP 3.3.X is a single standing course, not linked to other NPC Courses.

3. Eligibility

Applicants for the ISP System Administrator course are to have a basic knowledge in UNIX and Solaris. Their supervisor must confirm these prerequisites in the joining notice otherwise the applicant will not be accepted on the course. In the case of more applicants than course seats, SHAPE through Chairman ACCS Software Committee (ASC) Sub Committee-3(SC-3) will set priorities.

All ISP user units are eligible to send students providing course pre-requisites are met.

4. Duration.

The duration of the course is 15.30 hours taught over 3 days.

a. Effective Training Time

The lessons will run from 09:00am till 15:00pm every day.

b. Non-effective time

The students will have to travel from the Hotel on their own to NPC premises.

Coffee breaks (if duty allows) 10:00 – 10:30am Lunch 12:30 – 13:30pm.

Small breaks will be at the discretion of the instructor.

5. Security Classification

Since the course is done in a NATO Secret environment, the students must provide a copy of their Security Clearance before entering the NPC premises.

Without a Security Clearance the students will not be able to attend the course.

a. The Slides. NATO UNCLASSIFIED

b. The Network. NATO CONFIDENTIAL

c. The Classroom. NATO CONFIDENTIAL

d. The CD's. NATO UNCLASSIFIED

e. Discussion Topics. NATO CONFIDENTIAL

6. Sponsor

The overall Sponsor of the ISP System Administrator Course is the Commander of NPC.

7. Training Executive

The overall responsibility for the conduct of this course is the Chief Individual Training Section (ITS).. The responsibility can be delegated to another person if required.

8. Course size

The maximum numbers of students is set to 12 due to workstations and instructor availability. Seats for observers (no workstation) are available. Minimum number of students is set to 6. Head of Training Branch (H-TRB) based on directions from Chairman ASC SC3 can change these numbers.

9. Syllabus Review Date.

This document is Version 9 of Syllabus for ISP System Administration Course and is valid from 01 Mar 2012.

The Syllabus is to be reviewed once a year, by the ISP Project Leader (PL) and by every new ISP software baseline release (or by discretion of) H-TRB and C-ITS.

10. Additional Information.

a. Location

The ISP System Administration Courses will run at the NPC in the classroom B12/B13.

b. Nominations for Course.

Students apply by using the Application Form at <http://www.npc.ncia.nato.int> under Training and Scheduled Courses., also available NATO Secret WAN.

c. Trade Qualification Annotation.

The students on the ISP System Administration Courses will receive a certificate indicating that they have participated in the ISP System Administrator Course.

d. Gender Terminology

Where the masculine gender is used (e.g. When a student has a problem **he** is to ...) it is actually applicable to both genders.

e. List of Abbreviations.

ACCS	– Air Command & Control System
ASE/MASE	– Aegis Site Emulator, Multi Aegis Site Emulator
CORBA	– Common Object Request Broker Architecture
COSI	– COrba Service for ICC
ECP	– Engineering Change Proposal
GUI	– Graphical User Interface
ICC	– NATO <u>I</u> ntegrated <u>C</u> ommand & <u>C</u> ontrol Software for Air Operations.
ISP	– Interactive Simulation Package
ITS	– Individual Training Section
LAN	– Local Area Network
LDAP	– Lightweight Directory Access Protocol

NADGE	– NATO Air Defence Ground Environment
NATO	– North Atlantic Treat Organization
NISP	– NPC Integrated Solaris Platform
NIRIS	– Networked Interoperable Real-Time Information Services
NPC	– NATO Programming Centre
OWL	– Office Working LAN
PL	– Project Leader
RIS	– Ration Item Store
SPARC	– Scalable Processor ARChitecture
SRV	– SeRVer
SYNAX	– SYNthetic Air eXercises
TRB	– Training Branch
TDL	– Tactical Data Link
WAN	– Wide Area Network

PART II - ALLOCATION OF TIME

Course Topic (a)	Daily Time Allocation						
	Section (b)	Total (c)	Day1 (d)	Day2 (e)	Day3 (f)	Day4 (g)	Day5 (h)
Module 1	1. Introduction	30 mins	30 mins				
Module 2	2. ISP Overview	30 mins	30 mins				
Module 3	3. ISP Introduction	90 mins	90 mins				
Module 4	4. ISP Hardware	30 mins	30 mins				
Module 5	5. Operating system – Solaris introduction	30 mins	30 mins				
Module 6	6. ISP Installation on SPARC platform (Theory only)	30 mins	30 mins				
Module 7	7. ISP Installation on x86/x64 based WS (Theory only)	30 mins	30 mins				
Module 8	8. ISP Installation on x86 WS (Hands on)	60 mins	60 mins				
Module 9	9. Review Day1	30 mins		30 mins			
Module 10	10. Advanced Configuration	180 mins		180 mins			
Module 11	11. Exercise Generation	60 mins		60 mins			
Module 12	12. ECP Procedures	60mins		60 mins			
Module 13	13. Review Day 2	30 mins			30 mins		
Module 14	14. Fault Finding	60 mins			60 mins		
Module 15	15. New Baseline Presentation	60 mins			60 mins		
Module 16	16. Theory Test	90 mins			90 mins		

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Questions	Open Questions Visit of H-TRB and hand out of certificates	30 mins			30 mins		
Totals		930 mins	330 mins	330 mins	270 mins		

PART III - SUMMARY OF COURSE CONTENT

Subject (a)	Training Objective Number (b)	Objective (c)	Remarks (d)	Syllabus Time (e)		
<u>Conditions and Standards.</u>						
All training, both lessons and practical exercises are to be conducted in the classrooms B12-B13.						
All practical exercises are to be completed with using the training manual and the personal notes of the student.						
				Theory	Practical	Total
Module 1 - Introduction	1.1	Student arrival admin followed by background presentation.	ITS	30 mins	0 mins	30 mins
Module 2 - ISP Overview	2.1	Learn about the operator’s view of ISP, its features, handling and usage.	ITS	30 mins	0 mins	30 mins
Module 3 - ISP Introduction	3.1	Receive an overview of the product ISP, and history.	ITS	30 mins	30 mins	60 mins
Module 4 - ISP Hardware	4.1	Learn about the hardware used for ISP Application.	ITS	30 mins	0 mins	30 mins

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Module 5 - Solaris Operating System	5.1	Solaris introduction.	ITS	30 mins	0 mins	30 mins
Module 6 - ISP Installation	6.1	ISP Installation on SPARC platform.	ITS	30 mins	0 mins	30 mins
Module 7 - ISP Installation	7.1	ISP Installation on x86/x64 platform.	ITS	30 mins	0 mins	30 mins
Module 8 - ISP Installation	8.1	ISP Installation on x86 platform.	ITS	0 mins	60 mins	60 mins
Module 9 - Review day 1	9.1	Perform a check of understanding and retention of information.	ITS	30 mins	0 mins	30 mins
Module 10 - Advanced Configuration	10.1	Configure ISP for personal usage. Troubleshoot and recover from failures.	ITS	60 mins	120 mins	180 mins
Module 11 - Exercise Generation	11.1	Installing ISP and troubleshooting the installed version.	ITS	40 mins	20 mins	60 mins
Module 12 -Engineer Change Proposal.	12.1	Procedures for submitting ECP.	ITS	60 mins	0 mins	60 mins
Module 13 - Review day 2	13.1	Perform a check of understanding and retention of information.	CSTB	30 mins	0 mins	30 mins

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Module 14 - Fault Finding	14.1	Troubleshooting ISP problems.	CSTB	60 mins	0 mins	60 mins
Module 15 - New Base Line	15.1	Information from ISP developers on current and future ISP developments.	CSTB	60 mins	0 mins	60 mins
Module 16 - Theory Test	16.1	Check students understanding of course topics	CSTB	90 mins	0 mins	90 mins
Questions - Visit of H-TRB and hand out of certificates		Answer all questions relating to course material.	CSTB	30 mins	0 mins	30 mins

PART IV - PUBLICATIONS, EQUIPMENT AND RESOURCES

Serial number (a)	Subject (b)	Equipment (c)	Maximum Overall Quantity (d)
1	Hardware	Projector	1
1	Hardware	OWL-Computer for Instructor	1
1	Hardware	Solaris-Computer for Instructor	1
2	Hardware	Work Stations	14
3	Hardware	Monitors	14
4	Hardware	Servers	1
5	Hardware	HUB	1
6	Hardware	Router	1
7	CDs for Training (remain in classroom and/or TDL)	ISP 3.3.X Software CD	14
8	Paper copies for Training (remain in classroom)	SIP Software Installation Plan ISP 3.3	14
		SAM System Administrators Manual ISP 3.3	14
9	Paper copies for Students	ISP 3.3.X Slides as Printout	14
10	Student CD Burning	Course CDs	14

PART V - ASSESMENT STRATEGY

Pre-Requisites:

The students are required to have a basic Solaris, Unix background. Their supervisor must confirm these prerequisites in the joining notice otherwise the applicant will not be accepted for the course. If these prerequisites cannot be met the H-TRB will generally not allow the applicant to participate in the course.

Learning assessment:

The NPC ISP System Administration Course is based on learning by doing. Assessment of whether the student has reached the training objective is performed in an active dialog between student and instructor, mainly during the practical exercises and labs.

At the last day of the course an examination (multiple choice questions) is given.

PART VI - CLASS SIZE

Maximum Class size: **12**

Minimum Class size: **6**

Syllabus Authority	H-TRB
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