MAINTENANCE TRAINING PROGRAMME

FOR

GALAXY AEROSPACE (M) SDN BHD

APPROVAL NO.:	ATO/2023/02
MAINTENANCE TRAINING PROGRAMME TITLE:	AIRBUS HELICOPTERS AS 365 N3 (SAFRAN ARRIEL 2C) CAAM PART 66 CATEGORY B1.3 & B2 TYPE TRAINING
DOCUMENT REFERENCE:	GAM/CAAM/MTP/AS365N3/B1B2
ISSUE NUMBER:	1
REVISION NUMBER:	0
DATE:	01 AUGUST 2023
COPY NUMBER:	02
HOLDER:	CIVIL AVIATION AUTHORITY OF MALAYSIA

ADDRESS: A-G-01, A-02-01 & A-03-01, BLOK A
BANGUNAN PERDAGANGAN SIERA
ARA DAMANSARA, JALAN PJU 1A/5A,
ARA DAMANSARA,
47301 PETALING JAYA,
SELANGOR, MALAYSIA

TELEPHONE NO: +603 7455 0555

E-MAIL: kushairi@galaxyaerospace.my

PART 0:

DOCUMENT OVERVIEW

0.1 NAME AND ADDRESS OF THE ORGANISATION

0.1.1 Main Office, Classroom, Examination and Assessment Facility

No.	Company Name	Address
1.	Galaxy Aerospace (M) Sdn Bhd	No. A-01-02, Blok A, Bangunan Perdagangan Siera Ara Damansara, Jalan PJU 1A/5A, Ara Damansara, 47301 Petaling Jaya, Selangor, Malaysia.

0.1.2 Practical Training Facility

No.	Company Name	Address
1.	Galaxy Aerospace (M) Sdn Bhd	Stesen Udara Maritim Subang, Agensi Penguatkuasaan Maritim Malaysia, Kementerian Dalam Negeri, Jalan TUDM, 40150 Shah Alam, Selangor, Malaysia.

0.2 DETAIL OF TRAINING COURSE

Description:	AIRBUS HELICOPTERS AS 365 N3 (SAFRAN ARRIEL 2C) CAAM Part 66 Category B1.3 & B2 Type Training	
MTP Reference No.:	GAM/CAAM/MTP/AS365N3/B1B2	
Approved by:	Civil Aviation Authority of Malaysia (CAAM)	
For Type Training Course Only:	Airframe:	AIRBUS HELICOPTERS AS 365 N3
	As fitted with Engine:	SAFRAN ARRIEL 2C
	Additional avionics system covered by this course (when relevant): 1. N/A	
Material Reference:	1. AS 365 MET – Maintenance Manual: Rev. NR009 dated 23/02/2023 2. AS 365 MDF – Description and Operation Manual: Rev. NR009 dated 23/02/2023 3. AS 365 MFI – Fault Isolation Manual: Rev. NR006 dated 08/02/2022 4. ARRIEL 2C Maintenance Manual: Volume 1 No. X 292 M1 450 2, Update No. 53 dated Dec. 30/2022 5. Master Minimum Equipment List (MMEL): Rev. 1 date code 18-23	
Maximum Number of Students:	1. Theoretical training: Shall not exceed twenty-two (22) students per training course. 2. Practical training: Shall not exceed fifteen (15) students per instructor.	
Theoretical Training Duration:	126 Hours : 00 Minutes	
Practical Training Duration (including assessment):	60 Hours : 00 Minutes	
Examination Duration:	3 Hours : 24 Minutes	
Total Training Duration:	189 Hours : 24 Minutes	
Theoretical Training Attendance Requirement:	The minimum participation time for the trainee to meet the objectives of the theoretical training and sit for the examination should not be less than 90% of the training hours scheduled per phase.	

Practical Training Attendance Requirement:	The minimum participation time for the trainee to meet the objectives of the practical training and/or sit for the assessments should not be less than 90% of the training hours scheduled.

0.3 APPROPRIATE REFERENCING FROM THE MTOE PART 1.9

a) The aircraft type training course and examination approved by CAAM shall be as referred to the MTOE Part 1.9.

b) See table below as described in MTOE Part 1.9.

No.	Scope	Rating	Category	Elements	MTP Reference	Issue/Rev/Date
1.	Type Training	AIRBUS HELICOPTERS AS 365 N3 (SAFRAN ARRIEL 2C)	B1.3 & B2	Theoretical & Practical	GAM/CAAM/MTP/ AS365N3/B1B2	Issue 1/Rev 0/ 01 Aug 2023

0.4 SIGNED STATEMENT BY THE APPROPRIATE POST HOLDER

a) The undersigned acknowledged that they have reviewed the Maintenance Training Programme (MTP) and agreed with the information presented within this document. Major changes to this MTP will be coordinated with and approved by CAAM.

Certification by	Name	Signature	Date
Developed and compiled by: *(SME/Instructor/Knowledge Examiner/Practical Assessor – B1.3)*	Ibrahim Hazly bin Mohamad Yusof		30 AUG 2023
Developed and compiled by: *(SME/Instructor/Knowledge Examiner/Practical Assessor – B2)*	Idros bin Abd Rahman		30 AUG 2023
Examination and practical assessment question verified by: *(Examination Manager)*	Roslina binti Mohd Sobri		30 AUG 2023
Recommended by: *(Training Manager)*	Adam Zafran George bin Abdullah		30 AUG 2023
Accepted by: *(Principal Quality Assurance (Training))*	Ahmad Kushairi bin Yunus		30 AUG 2023
Approved by: *(CAAM)*	MOHAMAD SOFIAN BIN BIYAMIN Penolong Pengarah Kanan Airworthiness Bahagian Airworthiness Pihak Berkuasa Penerbangan Awam MALAYSIA	CIVIL AVIATION AUTHORITY OF MALAYSIA Airworthiness CAAM	01 DEC 2023

0.5 POLICIES AND PROCEDURES FOR THE AMENDMENT OF MTP

a) All amendments to the Maintenance Training Programme (MTP) will require CAAM approval. All amendments will be submitted to CAAM for approval prior to their incorporation in this MTP.

b) Revised portion will be indicated by a dark vertical line on the left side and a revision number and date printed at the bottom of each page. Summary of amendments will be prepared for easy reference and traceability.

c) MTP will be controlled and each page of the MTP will have following:

   i. Issue number;

   ii. Revision number;

   iii. Date;

   iv. Page number.

d) The MTP shall be controlled by the Training Manager.

e) CAAM approval is not required for any minor changes due to typo errors or cosmetic reasons. An updated copy will be submitted to CAAM after the review.

0.6 LIST OF EFFECTIVE PAGES

PART 0 – DOCUMENT OVERVIEW							
Part	**Page**	**Issue/Rev**	**Dated**	**Part**	**Page**	**Issue/Rev**	**Dated**
0.1	1 of 1	1/0	01/08/2023	0.7	1 of 2	1/0	01/08/2023
0.2	1 of 2	1/0	01/08/2023		2 of 2	1/0	01/08/2023
	2 of 2	1/0	01/08/2023	0.8	1 of 1	1/0	01/08/2023
0.3	1 of 1	1/0	01/08/2023	0.9	1 of 1	1/0	01/08/2023
0.4	1 of 1	1/0	01/08/2023	0.10	1 of 3	1/0	01/08/2023
0.5	1 of 1	1/0	01/08/2023		2 of 3	1/0	01/08/2023
0.6	1 of 2	1/0	01/08/2023		3 of 3	1/0	01/08/2023
	2 of 2	1/0	01/08/2023				

PART 1 – TRAINING PROGRAMME							
Part	**Page**	**Issue/Rev**	**Dated**	**Part**	**Page**	**Issue/Rev**	**Dated**
1.1	1 of 6	1/0	01/08/2023		7 of 27	1/0	01/08/2023
	2 of 6	1/0	01/08/2023		8 of 27	1/0	01/08/2023
	3 of 6	1/0	01/08/2023		9 of 27	1/0	01/08/2023
	4 of 6	1/0	01/08/2023		10 of 27	1/0	01/08/2023
	5 of 6	1/0	01/08/2023		11 of 27	1/0	01/08/2023
	6 of 6	1/0	01/08/2023		12 of 27	1/0	01/08/2023
1.2	1 of 5	1/0	01/08/2023		13 of 27	1/0	01/08/2023
	2 of 5	1/0	01/08/2023		14 of 27	1/0	01/08/2023
	3 of 5	1/0	01/08/2023		15 of 27	1/0	01/08/2023
	4 of 5	1/0	01/08/2023		16 of 27	1/0	01/08/2023
	5 of 5	1/0	01/08/2023		17 of 27	1/0	01/08/2023
1.3	1 of 1	1/0	01/08/2023		18 of 27	1/0	01/08/2023
1.4	1 of 3	1/0	01/08/2023		19 of 27	1/0	01/08/2023
	2 of 3	1/0	01/08/2023		20 of 27	1/0	01/08/2023
	3 of 3	1/0	01/08/2023		21 of 27	1/0	01/08/2023
1.5	1 of 27	1/0	01/08/2023		22 of 27	1/0	01/08/2023
	2 of 27	1/0	01/08/2023		23 of 27	1/0	01/08/2023
	3 of 27	1/0	01/08/2023		24 of 27	1/0	01/08/2023
	4 of 27	1/0	01/08/2023		25 of 27	1/0	01/08/2023
	5 of 27	1/0	01/08/2023		26 of 27	1/0	01/08/2023
	6 of 27	1/0	01/08/2023		27 of 27	1/0	01/08/2023

Recommended by: **Principal Quality Assurance (Training)** **Galaxy Aerospace (M) Sdn. Bhd.**	**Approved by:** **Civil Aviation Authority of Malaysia**
Name: AHMAD KUSHAIRI YUNUS Principal Quality Assurance (Training) Galaxy Aerospace (M) Sdn. Bhd.	**Name:** MOHAMAD SOFIAN BIN BIYAMIN Penolong Pengarah Kanan Airworthiness Bahagian Airworthiness Pihak Berkuasa Penerbangan Awam MALAYSIA
Dated: 30 AUG 2023	**Dated:** 01 DEC 2023

Part	Page	Issue/Rev	Dated	Part	Page	Issue/Rev	Dated
1.6	1 of 1	1/0	01/08/2023	1.8	1 of 1	1/0	01/08/2023
1.7	1 of 5	1/0	01/08/2023	1.9	1 of 1	1/0	01/08/2023
	2 of 5	1/0	01/08/2023	1.10	1 of 1	1/0	01/08/2023
	3 of 5	1/0	01/08/2023				
	4 of 5	1/0	01/08/2023				
	5 of 5	1/0	01/08/2023				
PART 2 – ASSESSMENT AND EXAMINATION							
Part	**Page**	**Issue/Rev**	**Dated**	**Part**	**Page**	**Issue/Rev**	**Dated**
2.1	1 of 1	1/0	01/08/2023	2.3	1 of 1	1/0	01/08/2023
2.2	1 of 2	1/0	01/08/2023				
	2 of 2	1/0	01/08/2023				
PART 3 – FACILITY AND PERSONNEL							
Part	**Page**	**Issue/Rev**	**Dated**	**Part**	**Page**	**Issue/Rev**	**Dated**
3.1	1 of 3	1/0	01/08/2023	3.2	1 of 1	1/0	01/08/2023
	2 of 3	1/0	01/08/2023	3.3	1 of 1	1/0	01/08/2023
	3 of 3	1/0	01/08/2023				
PART 4 – EVALUATION AND FEEDBACK							
4.1	1 of 2	1/0	01/08/2023	4.2	1 of 1	1/0	01/08/2023
	2 of 2	1/0	01/08/2023				

Recommended by: Principal Quality Assurance (Training) Galaxy Aerospace (M) Sdn. Bhd.	Approved by: Civil Aviation Authority of Malaysia
Name: AHMAD KUSHAIRI YUNUS Principal Quality Assurance (Training) Galaxy Aerospace (M) Sdn. Bhd.	Name: MOHAMAD SOFIAN BIN BIYAMIN Penolong Pengarah Kanan Airworthiness Bahagian Airworthiness Pihak Berkuasa Penerbangan Awam MALAYSIA
Dated: 30 AUG 2023	Dated: 01 DEC 2023

0.7 REVISION STATUS AND SUMMARY OF AMENDMENTS

0.7.1 Revision Status

Issue No.	Revision No.	Date	Inserted By
1	0	01 Aug 2023	Ahmad Kushairi bin Yunus

0.7.2 Summary of Amendments

MTP Reference:	GAM/CAAM/MTP/AS365N3/B1B2
Issue:	1
Revision:	0
Date:	01 August 2023

Note: For any typo errors or cosmetic reasons, will be indicated as minor changes.

No.	Reference	Subject	Changes
1.	Initial Issue	-	-

0.8 DISTRIBUTION LIST

This section is to ensure adequate distribution of the Maintenance Training Programme (MTP) for Galaxy Aerospace (M) Sdn Bhd - Maintenance Training Organisation (GAM-MTO) personnel to have access to the relevant information. This does not mean that all personnel must be in receipt of a complete MTP but that a reasonable number of copies are readily available within the organisation.

The distribution list may be in the following form.

COPY NO.	FORMAT OF COPIES	HOLDER OF THE COPIES
1	Hard Copy	Principal Quality Assurance (Training) **(Master)**
2	Hard Copy	Civil Aviation Authority of Malaysia **(Master)**
1	Soft Copy	Accountable Manager **(Duplicate)**
1	Soft Copy	Training Manager **(Duplicate)**
1	Soft Copy	Examination Manager **(Duplicate)**
1	Soft Copy	Other GAM-MTO Personnel including Associate Instructional Staff **(Duplicate)**

0.9 TABLE OF CONTENTS

0.9 ABBREVIATION, TERMINOLOGY AND DEFINITIONS

0.9.1 Abbreviation

AM	Accountable Manager
AML	Aircraft Maintenance Licence
AMO	Approved Maintenance Organisation
APMM	Agensi Penguatkuasaan Maritim Malaysia
CAAM	Civil Aviation Authority of Malaysia
CAD	Civil Aviation Directive
CAGM	Civil Aviation Guidance Material
COR	Certificate of Recognition
EM	Examination Manager
GAM	Galaxy Aerospace (M) Sdn Bhd
GAM-MTO	Galaxy Aerospace (M) Sdn Bhd - Maintenance Training Organisation
ISS	Issue
KE	Knowledge Examiner
LEP	List of Effective Pages
MCAR	Malaysia Civil Aviation Regulation 2016
MTO	Maintenance Training Organisation
MTOE	Maintenance Training Organisation Exposition
MTP	Maintenance Training Programme
PA	Practical Assessor
PQAT	Principal Quality Assurance (Training)
QAI	Quality Assurance Inspector
REF	Reference
REV	Revision
SME	Subject Matter Expert
SPT	Structured Practical Training
TE	Training Executive
TM	Training Manager
TP	Training Programme
TPM	Training Procedures Manual

0.9.2 Terminology and Definitions

a. **Aircraft Maintenance Licence or AML** means a licence issued by CAAM in accordance with CAD 1801.

b. **AMO** means, an approved maintenance organisation which holds a valid certificate of approval granted under regulation 31(1) (b), or regulation 32 of the MCAR.

c. **Knowledge Examiner** means an appropriately qualified person authorised by the maintenance training organisation to develop theoretical examination question paper and conduct assessment on the performance of the examinations.

d. **Large Aircraft** means

i. an aeroplane with a maximum certificated take-off mass exceeding 5,700 kg;

ii. an aeroplane equipped with turbojet engine(s) or more than one turboprop engine;

iii. a rotorcraft with a maximum certificated take-off mass exceeding 3,175 kg; or

iv. a rotorcraft with more than one engine.

e. **Maintenance** means, in relation an aircraft, the performance of tasks required to ensure the continuing airworthiness of the aircraft, including any one or combination of overhaul, inspection, replacement, defect rectification, and the embodiment of a modification or repair.

f. **Maintenance Experience** means experience of being involved in maintenance tasks on operating aircraft and cover a wide range of tasks in length, complexity and variety.

g. **Maintenance Training Organisation Exposition** or MTOE means an approved document that contains the material specifying the scope of work deemed to constitute approval and showing how the organisation intends to comply with this CAD.

h. **MTO or The Organisation** means an approved maintenance training organisation which holds a valid certificate of approval granted under regulation 31(1)(c), or regulation 32 of the MCAR.

i. **Practical Assessor** means an appropriately qualified person authorised by the maintenance training organisation to conduct the practical assessments in determining the level of practical knowledge or skill whether the trainee is competent.

j. **Validator** means licensed personnel or a person authorised by the maintenance training organisation who is responsible to supervise, train and validate the skill training and experience acquisition of aircraft maintenance trainee or personnel.

k. Throughout this MTP, the use of the male gender should be understood to include male and female persons.

PART 1:

TRAINING PROGRAMME

1.1 TRAINING SPECIFICATION

1.1.1 Theoretical Element

a) This training course is designed to provide comprehensive type training for AIRBUS HELICOPTERS AS 365 N3 (SAFRAN ARRIEL 2C) aircraft maintenance under CAAM Part 66 Category B1.3 and B2. The training course encompasses theoretical training, examinations, practical training, and practical assessments to ensure a thorough understanding and proficiency in the maintenance and operation of the specified aircraft.

b) Structure:

The theoretical training is divided into four (4) phases to comprehensively cover relevant knowledge areas. The content of each phase is tailored to align with the MTP Part 1.2.2, focusing on the ATA chapters applicable to the AIRBUS HELICOPTERS AS 365 N3 (SAFRAN ARRIEL 2C) aircraft.

i. Phase 1: 34:00 hours

ii. Phase 2: 27:00 hours

iii. Phase 3: 33:00 hours

iv. Phase 4: 32:00 hours

v. Total (Phase 1 + 2 + 3 + 4); 126:00 hours

c) Objective:

On completion of the theoretical training course the student shall be able to demonstrate, to the levels identified in MTP Part 1.2, the detailed theoretical knowledge of the aircraft's applicable systems, structure, operations, maintenance, repair, and troubleshooting according to approved maintenance data. The student shall be able to demonstrate the use of manuals and approved procedures, including the knowledge of relevant inspections and limitations.

1.1.1.1 Level of Training

a) The three levels listed below define the objectives, the depth of training and the level of knowledge that the training is intended to achieve.

b) Level 1: A brief overview of the airframe, systems and powerplant as outlined in the description section of the AS 365 MDF – Description and Operation Manual.

c) Course objectives: Upon completion of Level 1 training, the student will be able to:

i. provide a simple description of the whole subject, using common words and examples, using typical terms and identify safety precautions related to the airframe, its systems and powerplant;

ii. identify aircraft manuals, maintenance practices important to the airframe, its systems and powerplant;

iii. define the general layout of the aircraft's major systems;

iv. define the general layout and characteristics of the powerplant;

v. identify special tooling and test equipment used with the aircraft.

d) Level 2: Basic system overview of controls, indicators, principal components, including their location and purpose, servicing and minor troubleshooting.

e) Course objectives: In addition to the information contained in the Level 1 training, at the completion of Level 2 training, the student will be able to:

i. understand the theoretical fundamentals; apply knowledge in a practical manner using detailed procedures;

ii. recall the safety precautions to be observed when working on or near the aircraft, powerplant and systems;

iii. describe systems and aircraft handling particularly access, power availability and sources;

iv. identify the locations of the principal components;

v. explain the normal functioning of each major system, including terminology and nomenclature;

vi. perform the procedures for servicing associated with the aircraft for the following systems: Fuel, Power Plants, Hydraulics and Landing Gear, etc.;

vii. demonstrate proficiency in use of crew reports and on-board reporting systems(minor troubleshooting) and determine aircraft airworthiness as per the Minimum Equipment List (MEL);

viii. demonstrate the use, interpretation and application of appropriate documentation including AS 365 MET – Maintenance Manual and MFI – Fault Isolation Manual, etc.

f) Level 3: Detailed description, operation, component location, removal/ installation and troubleshooting procedures to AS 365 MET – Maintenance Manual and MFI – Fault Isolation Manual level respectively.

g) Course objectives: In addition to the information contained in Level 1 and Level 2 training, at the completion of Level 3 training, the student will be able to:

i. demonstrate a theoretical knowledge of aircraft systems and structures and interrelationships with other systems, provide a detailed description of the subject using theoretical fundamentals and specific examples and to interpret results from various sources and measurements and apply corrective action where appropriate;

ii. perform system, powerplant, component and functional checks as specified in the AS 365 MET – Maintenance Manual;

iii. demonstrate the use, interpret and apply appropriate documentation including AS 365 MFI – Fault Isolation Manual etc.;

iv. correlate information for the purpose of making decisions in respect of fault diagnosis and rectification;

v. describe procedures for replacement of components.

1.1.1.2 Training Methods and Tools

a) Refer to the table below for the types of training methods and tools which may be used for the training. Actual training methods and tools or aids used shall be according to MTP Part 1.2.

No.	Training Tools	Description
1	Slideshow / PDF presentation	A structured presentation of slides.
2	Manuals	Comprehensive and controlled publication of a particular topic.
3	Computer (laptop)	An electronic processing device that can hold and display information in various media.
4	Mobile devices (such as, but not limited to, tablets, smart phones, etc.)	A mobile electronic processing device that can hold and display information in various media.
5	Videos	Electronic media for broadcasting moving visual images.
6	MSTD — Maintenance simulation training device	A training device that is intended to be used in maintenance training, examination, and/or assessment for a component,

No.	Training Tools	Description
		system or entire aircraft. The MSTD may consist of hardware and software elements.
7	Mock-up	A scaled or full-size replica of a component, system or entire aircraft that preserves (i.e., is an exact replica of) the geometrical, operational or functional characteristics of the real component, system or entire aircraft for which maintenance training is delivered with the use of such a replica.
8	Virtual reality	A computer-generated three-dimensional (3D) environment which can be explored and possibly interacted with.
9	MTD — Maintenance training device	Maintenance training device is any training device other than an MSTD used for maintenance training and/or examination and/or assessment. It may include mock-ups.
10	Real aircraft	A suitable aircraft whose condition allows teaching a selection of maintenance tasks that are representative of the particular aircraft or of the aircraft category. 'Suitable' means an aircraft of the type or licence (sub) category (if the licence (sub) category aircraft is outfitted with the same equipment subject to the particular lesson module(s) and is sufficiently similar so that the lesson objective(s) can be satisfactorily accomplished) for type training, or an aircraft representative of the licence (sub)category for basic training and excludes 'virtual aircraft'. 'Condition' means that the aircraft is equipped with its main components and that the systems can be activated/operated when this is required by the learning objectives.
11	Aircraft component	A suitable aircraft component used to teach specific maintenance tasks off-the-wing. This may include but is not limited to tasks such as borescope inspections, minor repairs, testing, or the assembly/disassembly of sub-components. 'Suitable' means that the condition of the component should fit the learning objectives of the tasks and, when appropriate, may feature existing defects or damages.
12	Augmented reality	An enhancement (modification, enrichment, alteration or manipulation) of one's current perception of reality elements of a physical, real-world environment following user's inputs picked up by sensors transferred to rapid streaming computer images. By contrast, virtual reality replaces the real world with a simulated one.
13	Embedded training	A maintenance training function that is originally integrated into the aircraft component's design (i.e. a centralised fault display system).
14	Classroom	A physical, appropriate location where learning takes place.

No.	Training Tools	Description
15	Virtual classroom/SDL (Synchronous Distance Learning)	A simulated, not physical, location where synchronous learning takes place. SDL approval is required prior to start the training.

1.1.1.3 Competency Measurement

a) Competency is measured by multi-choice type examination after completion of training for each phase:

i. Phase 1: 36 questions (0:54 minutes)

ii. Phase 2: 28 questions (0:42 minutes)

iii. Phase 3: 36 questions (0:54 minutes)

iv. Phase 4: 36 questions (0:54 minutes)

b) The objective of this competency measurement is to assess the knowledge and understanding of trainees in a specific subject through a series of multiple-choice questions. By utilizing this assessment method, the aim is to evaluate the trainees' comprehension of theoretical concepts, their ability to apply learned knowledge, and their overall competency in the given subject.

1.1.2 Practical Element

a) Practical training sessions will be conducted to provide hands-on experience with AIRBUS HELICOPTERS AS 365 N3 (SAFRAN ARRIEL 2C) aircraft systems, components, and maintenance procedures.

b) Trainees will have the opportunity to apply theoretical knowledge in a practical setting under supervised conditions.

c) Structure:

i. The practical training may include instruction in a classroom or in simulators but part of the practical training should be conducted in a real maintenance environment.

ii. The tasks should be selected because of their frequency, complexity, variety, safety, criticality, novelty, etc. The selected tasks should cover all the chapters described in the table contained in MTP Part 1.7.1.

iii. The duration of the practical training is 60:00 hours.

d) Objective:

The objective of practical training is to gain the required competence in performing safe maintenance, inspections, and routine work according to the maintenance manual and other relevant instructions and tasks as appropriate for the type of aircraft, for example identification of location, functional/operational test, servicing and/or ground handling, removal/installation of components, review of Master Minimum Equipment List (MMEL) and trouble shooting. It includes the awareness of the use of all technical literature and documentation for the aircraft, the use of specialist/special tooling and test equipment for performing removal and replacement of components and modules unique to type, including any on-wing maintenance activity.

1.1.2.1 Competency Measurement

a) Practical element competency is measured by a practical assessment during or after the completion of practical training. This shall be conducted by an approved practical assessor as listed in MTP Part 3.1.1.3.

b) The objective of the practical assessment is to evaluate whether the candidate has gained the required competence in performing safe maintenance, inspections, and routine work according to the aircraft documentation and other relevant instructions and tasks as appropriate for the type of aircraft.

1.2 TRAINING MILESTONE / OVERVIEW OF TRAINING COURSE PROGRAMME

1.2.1 Overview of Training Course

a) AIRBUS HELICOPTERS AS 365 N3 (SAFRAN ARRIEL 2C) CAAM Part 66 Category B1.3 and B2 type training course consist of theoretical training, examination, practical training and practical assessment.

b) By derogation to above Part 1.2.1 (a), the theoretical training is divided into four (4) phases. The content of each phase consists of relevant ATA chapters applicable to the aircraft as per MTP Part 1.2.2.

c) The theoretical training and examination shall comply with the following requirements:

   i. the relevant elements defined in the standard described in the MTP Part 1.2.2;

   ii. the type training examination standard described in the MTP Part 2.2.1.

d) The practical training shall be conducted in accordance with the MTOE Part 2.5.

e) The practical training should be imparted after the performance of the theoretical portion of the aircraft type training course.

f) The theoretical training, examination, practical training and practical assessment must have been started and completed within the 2 years preceding the application for a type rating endorsement.

1.2.2 Training Syllabus – Theoretical

SYLLABUS			TRAINING STRUCTURES			
Phase	**ATA**	**Description**	**Training Level****	**Hours : Mins*****	**MCQ******	**Training Aids*******
1	00	First Contact with the Helicopter	1	2:00	2	1/3/14
	05	Inspection Schedules	1	1:00	1	1/3/14
	06	Dimension and Arrangement	1	1:00	1	1/3/14
	45	Centralized Maintenance System	3	5:00	5	1/3/14
	39	Electrical and Avionic Panels	3	2:00	2	1/3/14
	24	Electrical Power	3	4:00	5	1/3/14
	31	Indicating / Recording Systems	3	1:00	2	1/3/14
	31A*	Instruments System				
	18	Vibration and Noise Analysis	3	1:00	1	1/3/14
	33	Lights	3	3:00	3	1/3/14
	23	Communications	3	4:00	4	1/3/14
	34	Navigation	3	10:00	10	1/3/14
		Total Training Hours:		34:00	-	-
		Examination Hours:		0:54	36	-
		Total Hours:		**34:54**	-	-

SYLLABUS			TRAINING STRUCTURES			
Phase	**ATA**	**Description**	**Training Level****	**Hours : Mins*****	**MCQ******	**Training Aids*******
2	22	Automatic Flight Control Systems	3	8:00	8	1/3/14
	25A	Electronic Equipment / Emergency equipment	3	2:00	2	1/3/14
	30	Ice and Rain Protection	3	2:00	2	1/3/14
	25	Equipment / Furnishings	3	3:00	3	1/3/14
	51	Structure and Standard Practices	3	1:00	1	1/3/14
	53	Fuselage	3	1:00	2	1/3/14
	55	Stabilizers	3	1:00	1	1/3/14
	52	Doors	3	2:00	2	1/3/14
	07	Lifting and Hoisting	1	1:00	1	1/3/14
	08	Levelling, Weighing, Alignment	1	1:00	1	1/3/14
	09	Towing - Taxiing	1	1:00	1	1/3/14
	10	Parking and Mooring	1	1:00	1	1/3/14
	11	Placards and Markings	1	1:00	1	1/3/14
	12	Service Routine Maintenance	1	1:00	1	1/3/14
	20	Airframe Standard Practices	1	1:00	1	1/3/14
		Total Training Hours:		27:00	-	-
		Examination Hours:		0:42	28	-
		Total Hours:		**27.42**	-	-

SYLLABUS			TRAINING STRUCTURES			
Phase	**ATA**	**Description**	**Training Level****	**Hours : Mins*****	**MCQ******	**Training Aids*******
3	63	Main Rotor Drive	3	3:00	3	1/3/14
	63A*	Mian Rotor Drive - Monitoring and Indicating				
	62	Main Rotor	3	4:00	4	1/3/14
	62A	Main Rotor - Monitoring and Indicating				
	65	Tail Rotors Drives	3	2:00	3	1/3/14
	65A*	Tail Rotors Drives - Monitoring and Indicating				
	64	Tail Rotor	3	2:00	2	1/3/14
	60	Standard Practices Rotor	3	1:00	1	1/3/14
	66	Blade Folding	3	1:00	1	1/3/14
	29	Hydraulic Power	3	3:00	4	1/3/14
	29A*	Hydraulic Power - Monitoring and Indicating				
	32	Landing Gear	3	3:00	3	1/3/14
	32A*	Landing Gear - Monitoring and Indicating				
	67	Rotors Flight Control	3	5:00	6	1/3/14
	28	Fuel System	3	4:00	4	1/3/14
	28A*	Fuel System - Monitoring and Indicating				
	26	Fire Protection	3	2:00	2	1/3/14
	70	Standard Practices - Engine	3	3:00	3	1/3/14
	70A*	Constructional arrangement and operation				
	70B*	Engine Performance				
		Total Training Hours:		33:00	-	-
		Examination Hours:		0:54	36	-
		Total Hours:		**33:54**	-	-

SYLLABUS			TRAINING STRUCTURES			
Phase	**ATA**	**Description**	**Training Level****	**Hours : Mins*****	**MCQ********	**Training Aids*********
4	71	Powerplant	3	3:00	3	1/3/14
	72	Engine	3	4:30	6	1/3/14
	78	Engine Exhaust System	3	0:30	1	1/3/14
	73	Engine Fuel System	3	5:00	5	1/3/14
	75	Engine Air System	3	3:00	3	1/3/14
	76	Engine Control System	3	5:00	6	1/3/14
	77	Engine Indicating	3	4:00	4	1/3/14
	79	Lubrication	3	3:00	3	1/3/14
	80	Starting	3	1:30	2	1/3/14
	74	Engine Ignition System	3	0:30	1	1/3/14
	21	Air Conditioning	3	2:00	2	1/3/14
	21A*	Air Supply				
		Total Training Hours:		32:00	-	-
		Examination Hours:		0:54	36	-
		Total Hours:		**32.54**	-	-

Note:

*The ATA chapter content is covered in the main ATA chapter.

**Aircraft type training level as defined in MTP Part 1.1.1.1.

***Those hours exclude ‘self-study’, aircraft visits, simulator visits, CBT, examination, etc.

****Number of Multi Choice Questions (MCQ) used per examination paper.

*****Training methods and tools may be used to aid training. Training aids used are as illustrated in MTP Part 1.1.1.2.

1.3 TRAINING PREREQUISITE

a) Below is the recommended prerequisite to attend this AIRBUS HELICOPTERS AS 365 N3 (SAFRAN ARRIEL 2C) CAAM Part 66 Category B1.3 & B2 type training course:

i. Shall be at least twenty-one (21) years old; and

ii. Holds an Aircraft Maintenance Licence issued by CAAM or other foreign authorities; or

iii. A degree in any field; or

iv. A diploma in any field; or

v. Has at least one (1) year of aircraft maintenance experience.

1.4 TOTAL TRAINING COURSE PROGRAMME DURATION

1.4.1 Duration

	Hours : Minutes	Days
Theoretical Training	126 : 00	21
Practical Training (including assessment)	60 : 00	11
Examination	3 : 24	0.57
Total	189 : 24	32.57

1.4.2 Training Course Schedule

Day 1	Hrs: Mins	Day 2	Hrs: Mins	Day 3	Hrs: Mins	Day 4	Hrs: Mins	Day 5	Hrs: Mins
ATA 00	2:00	ATA 45	3:00	ATA 24	3:00	ATA 33	2:00	ATA 34	6:00
ATA 05	1:00	ATA 39	2:00	ATA 31	1:00	ATA 23	4:00		
ATA 06	1:00	ATA 24	1:00	ATA 31A					
ATA 45	2:00			ATA 18	1:00				
				ATA 33	1:00				
Total Hours:	**6:00**	**Total Hours:**	**6:00**	**Total Hours:**	**6:00**	**Total Hours:**	**6:00**	**Total Hours:**	**6:00**

Day 6	Hrs: Mins	Day 7	Hrs: Mins	Day 8	Hrs: Mins	Day 9	Hrs: Mins	Day 10	Hrs: Mins
ATA 34	4:00	ATA 22	6:00	ATA 25A	2:00	ATA 25	1:00	ATA 07	1:00
ATA 22	2:00			ATA 30	2:00	ATA 51	1:00	ATA 08	1:00
				ATA 25	2:00	ATA 53	1:00	ATA 09	1:00
						ATA 55	1:00	ATA 10	1:00
						ATA 52	2:00	ATA 11	1:00
								ATA 12	1:00
Phase 1 Exam									
Total Hours:	**6:00**	**Total Hours:**	**6:00**	**Total Hours:**	**6:00**	**Total Hours:**	**6:00**	**Total Hours:**	**6:00**

Day 11	Hrs: Mins	Day 12	Hrs: Mins	Day 13	Hrs: Mins	Day 14	Hrs: Mins	Day 15	Hrs: Mins
ATA 20	1:00	ATA 62	2:00	ATA 60	1:00	ATA 32	2:00	ATA 67	1:00
ATA 63	3:00	ATA 62A		ATA 66	1:00	ATA 32A		ATA 28	4:00
ATA 63A		ATA 65	2:00	ATA 29	3:00	ATA 67	4:00	ATA 28A	
ATA 62	2:00	ATA 65A		ATA 29A				ATA 26	1:00
ATA 62A		ATA 64	2:00	ATA 32	1:00				
				ATA 32A					
Phase 2 Exam									
Total Hours:	**6:00**	**Total Hours:**	**6:00**	**Total Hours:**	**6:00**	**Total Hours:**	**6:00**	**Total Hours:**	**6:00**

Day 16	Hrs: Mins	Day 17	Hrs: Mins	Day 18	Hrs: Mins	Day 19	Hrs: Mins	Day 20	Hrs: Mins
ATA 26	1:00	ATA 71	1:00	ATA 73	5:00	ATA 75	2:00	ATA 76	1:00
ATA 70	3:00	ATA 72	4:30	ATA 75	1:00	ATA 76	4:00	ATA 77	4:00
ATA 70A		ATA 78	0:30					ATA 79	1:00
ATA 71	2:00								
Phase 3 Exam									
Total Hours:	**6:00**	**Total Hours:**	**6:00**	**Total Hours:**	**6:00**	**Total Hours:**	**6:00**	**Total Hours:**	**6:00**

Day 21	Hrs: Mins	Day 22	Hrs: Mins	Day 23	Hrs: Mins	Day 24	Hrs: Mins	Day 25	Hrs: Mins
ATA 79	2:00	Practical Training	6:00	Practical Training	6:00	Practical Training	6:00	Practical Training	6:00
ATA 80	1:30								
ATA 74	0:30								
ATA 21	2:00								
ATA 21A									
Phase 4 Exam									
Total Hours:	**6:00**	**Total Hours:**	**6:00**	**Total Hours:**	**6:00**	**Total Hours:**	**6:00**	**Total Hours:**	**6:00**

Day 26	Hrs: Mins	Day 27	Hrs: Mins	Day 28	Hrs: Mins	Day 29	Hrs: Mins	Day 30	Hrs: Mins
Practical Training	6:00	Practical Training	6:00	Practical Training	6:00	Practical Training	6:00	Practical Training	6:00
Total Hours:	**6:00**	**Total Hours:**	**6:00**	**Total Hours:**	**6:00**	**Total Hours:**	**6:00**	**Total Hours:**	**6:00**

Day 31	Hrs: Mins	Day 32	Hrs: Mins
Practical Training	6:00	**Practical Assessment**	
Total Hours:	**6:00**		

1.5 TRAINING LESSON PLAN

1.5.1 Phase No. 1

ATA CHAPTER 00

OBJECTIVES: After completion of ATA CHAPTER 00, the trainee will be able to:

- Provide a simple description of AS 365 N3 operating capabilities.
- Identify main systems and components of the AS 365 N3.
- Define the general documentation and publication for AS 365 N3.

CONTENTS:

Training Level	Duration (hrs;mins)	Contents	Method	Materials Used
Level 1 (as per MTP Part 1.2.2)	2:00	1. Airbus Helicopter: The World Largest Civil Range 2. Dauphin Missions 3. Introduction to the Dauphin 4. Documentation and Publication 5. Aircraft Document 6. Electrical Documentation	1. PDF presentation 2. Laptop 3. Classroom (as per MTP Part 1.2.2)	1. Training Notes 2. Instructor Guide (as per MTP Part 1.6)

ATA CHAPTER 05

OBJECTIVES: After completion of ATA CHAPTER 05, the trainee will be able to:

- Define the airworthiness limitation of AS 365 N3.
- Familiarize with the AS 365 N3 technical publication used to perform maintenance activities.

CONTENTS:

Training Level	Duration (hrs;mins)	Contents	Method	Materials Used
Level 1 (as per MTP Part 1.2.2)	1:00	1. General Overview 2. Airworthiness Limitation 3. Master Servicing Manual 4. Maintenance 5. Basic Inspection Type T or A	1. PDF presentation 2. Laptop 3. Classroom (as per MTP Part 1.2.2)	1. Training Notes 2. Instructor Guide (as per MTP Part 1.6)

ATA CHAPTER 06

OBJECTIVES: After completion of ATA CHAPTER 06, the trainee will be able to:

- Understand the AS 365 N3 dimension and arrangement.
- Define and understand the AS 365 N3 zonal and station identification systems.

CONTENTS:

Training Level	Duration (hrs;mins)	Contents	Method	Materials Used
Level 1 (as per MTP Part 1.2.2)	1:00	1. General Overview 2. The Stations and Main Frames 3. Main Dimensions 4. Access	1. PDF presentation 2. Laptop 3. Classroom (as per MTP Part 1.2.2)	1. Training Notes 2. Instructor Guide (as per MTP Part 1.6)

ATA CHAPTER 45

OBJECTIVES: After completion of ATA CHAPTER 45, the trainee will be able to:

- Define and understand on AS 365 N3 centralized maintenance system components, operations, controls and indications.

CONTENTS:

Training Level	Duration (hrs;mins)	Contents	Method	Materials Used
Level 3 (as per MTP Part 1.2.2)	5:00	1. General Overview 2. MÁRMS 3. UMS 4. SSCVFDR 5. Manual Test 6. Normal Procedure 7. MFDAU 8. EMU 9. Maintenance 10. UM Card Install 11. Pin Assignment 12. Check Directory 13. Download Flight(S)	1. PDF presentation 2. Laptop 3. Classroom (as per MTP Part 1.2.2)	1. Training Notes 2. Instructor Guide (as per MTP Part 1.6)

ATA CHAPTER 39

OBJECTIVES: After completion of ATA CHAPTER 39, the trainee will be able to:

- Identify the AS 365 N3 electrical and avionic panels.
- Understand the normal functioning of the electrical and avionic panels.

CONTENTS:

Training Level	Duration (hrs;mins)	Contents	Method	Materials Used
Level 3 (as per MTP Part 1.2.2)	2:00	1. General Overview 2. Indicating and Control Panels 3. Normal Functioning 4. Instrument Panel 5. Independent Instrument 6. Multiple Indicator 7. Normal Functioning	1. PDF presentation 2. Laptop 3. Classroom (as per MTP Part 1.2.2)	1. Training Notes 2. Instructor Guide (as per MTP Part 1.6)

ATA CHAPTER 24

OBJECTIVES: After completion of ATA CHAPTER 24, the trainee will be able to:

- Describe and understand the AS 365 N3 electrical power system components, operations, normal functioning, controls and indications.

CONTENTS:

Training Level	Duration (hrs;mins)	Contents	Method	Materials Used
Level 3 (as per MTP Part 1.2.2)	4:00	1. General Overview 2. DC Generation System 3. Location 4. Detailed Functioning 5. DC Power Distribution 6. Normal Functioning 7. Single Phase Ac Power System (400Hz-26 V & 115 V) 8. AC Power System Operation 9. Interconnection Unit	1. PDF presentation 2. Laptop 3. Classroom (as per MTP Part 1.2.2)	1. Training Notes 2. Instructor Guide (as per MTP Part 1.6)

ATA CHAPTER 31/31A

OBJECTIVES: After completion of ATA CHAPTER 31/31A, the trainee will be able to:

- Define and understand the AS 365 N3 indicating and visual alarms.

CONTENTS:

Training Level	Duration (hrs;mins)	Contents	Method	Materials Used
Level 3 (as per MTP Part 1.2.2)	1:00	1. General Overview 2. Indicating and Visual Alarms 3. Manual Test	1. PDF presentation 2. Laptop 3. Classroom (as per MTP Part 1.2.2)	1. Training Notes 2. Instructor Guide (as per MTP Part 1.6)

ATA CHAPTER 18

OBJECTIVES: After completion of ATA CHAPTER 18, the trainee will be able to:

- Define and understand the AS 365 N3 vibration and noise analysis basic architecture and normal functioning.

CONTENTS:

Training Level	Duration (hrs;mins)	Contents	Method	Materials Used
Level 3 (as per MTP Part 1.2.2)	1:00	1. General Overview 2. Basic Architecture 3. Normal Functioning	1. PDF presentation 2. Laptop 3. Classroom (as per MTP Part 1.2.2)	1. Training Notes 2. Instructor Guide (as per MTP Part 1.6)

ATA CHAPTER 33

OBJECTIVES: After completion of ATA CHAPTER 33, the trainee will be able to:

- Define and understand the AS 365 N3 internal and external lighting systems.

CONTENTS:

Training Level	Duration (hrs;mins)	Contents	Method	Materials Used
Level 3 (as per MTP Part 1.2.2)	3:00	1. General Overview 2. Cockpit Lighting 3. Storm Light 4. Passenger Compartment Lighting 5. Cargo and Accessory Compartment Lighting 6. Position Lights 7. Anti- Collision Light 8. Landing Light	1. PDF presentation 2. Laptop 3. Classroom (as per MTP Part 1.2.2)	1. Training Notes 2. Instructor Guide (as per MTP Part 1.6)

ATA CHAPTER 23

OBJECTIVES: After completion of ATA CHAPTER 23, the trainee will be able to:

- Define and understand the AS 365 N3 communication system components and operations.

CONTENTS:

Training Level	Duration (hrs;mins)	Contents	Method	Materials Used
Level 3 (as per MTP Part 1.2.2)	4:00	1. General Overview 2. Normal Functioning 3. Degraded Mode 4. Public Address 5. VHF/AM 6. Degraded Functioning 7. Maintenance	1. PDF presentation 2. Laptop 3. Classroom (as per MTP Part 1.2.2)	1. Training Notes 2. Instructor Guide (as per MTP Part 1.6)

ATA CHAPTER 34

OBJECTIVES: After completion of ATA CHAPTER 34, the trainee will be able to:

- Define and understand the AS 365 N3 navigation system components, and operations.

CONTENTS:

Training Level	Duration (hrs;mins)	Contents	Method	Materials Used
Level 3 (as per MTP Part 1.2.2)	10:00	1. Radionavigation 2. GNS 430W 3. Controls and Displays 4. Normal Functioning 5. VOR/ILS 6. Normal Functioning 7. Marker Kr 21 8. DME 9. ADE 10. Normal Functioning 11. Manual Test 12. GPS 13. Transponder 14. Euronav Vii Moving Map Rn7 15. TCAS Hp 899 16. Manual Test 17. Radio Almeter 18. EGPWS 19. Manual Test 20. Status Monitoring 21. Weather Radar 22. Normal Functioning 23. Air Data System 24. APIRIS F201 25. MFD 255 26. Power Supply 27. Magnetic Compass 28. Stand-By Horizon 29. Maintenance	1. PDF presentation 2. Laptop 3. Classroom (as per MTP Part 1.2.2)	1. Training Notes 2. Instructor Guide (as per MTP Part 1.6)

1.5.2 Phase No. 2

ATA CHAPTER 22

OBJECTIVES: After completion of ATA CHAPTER 22, the trainee will be able to:

- Define and understand the AS 365 N3 automatic flight control systems components, operations, controls and displays.

CONTENTS:

Training Level	Duration (hrs;mins)	Contents	Method	Materials Used
Level 3 (as per MTP Part 1.2.2)	8:00	1. General Overview 2. Controls and Displays 3. Series Actuators 4. Roll and Pitch Trim Actuators 5. Collective and Yaw Trim Actuators 6. Normal Functioning 7. Collective Lever and Pedal Detection Unit 8. Fog 9. Flight Data Display Interface 10. Pre – Flight Test 11. Maintenance Mode 12. Basic Architecture 13. Control and Displays 14. Normal Functioning 15. Controls and Displays 16. Limitations	1. PDF presentation 2. Laptop 3. Classroom (as per MTP Part 1.2.2)	1. Training Notes 2. Instructor Guide (as per MTP Part 1.6)

ATA CHAPTER 25A

OBJECTIVES: After completion of ATA CHAPTER 25A, the trainee will be able to:

- Define and understand the AS 365 N3 emergency equipment architecture, components, operations, controls and displays.

CONTENTS:

Training Level	Duration (hrs;mins)	Contents	Method	Materials Used
Level 3 (as per MTP Part 1.2.2)	2:00	1. KANNAD Emergency Locator Transmitter 2. Emergency Floatation 3. Simplified Architecture 4. Control and Displays	1. PDF presentation 2. Laptop 3. Classroom (as per MTP Part 1.2.2)	1. Training Notes 2. Instructor Guide (as per MTP Part 1.6)

ATA CHAPTER 30

OBJECTIVES: After completion of ATA CHAPTER 30, the trainee will be able to:

- Define and understand the AS 365 N3 ice and rain protection components and operations.

CONTENTS:

Training Level	Duration (hrs;mins)	Contents	Method	Materials Used
Level 3 (as per MTP Part 1.2.2)	2:00	1. General Overview 2. Pitot Heater 3. Windshield Wipers 4. Windshield Washer	1. PDF presentation 2. Laptop 3. Classroom (as per MTP Part 1.2.2)	1. Training Notes 2. Instructor Guide (as per MTP Part 1.6)

ATA CHAPTER 25

OBJECTIVES: After completion of ATA CHAPTER 25, the trainee will be able to:

- Define and understand the AS 365 N3 equipment/furnishing in the cockpit, cabin and cargo.

CONTENTS:

Training Level	Duration (hrs;mins)	Contents	Method	Materials Used
Level 3 (as per MTP Part 1.2.2)	3:00	1. General Overview 2. Cockpit Equipment 3. Cabin 4. Servicing Connector 5. Cargo Compartment 6. Cockpit Equipment	1. PDF presentation 2. Laptop 3. Classroom (as per MTP Part 1.2.2)	1. Training Notes 2. Instructor Guide (as per MTP Part 1.6)

ATA CHAPTER 51

OBJECTIVES: After completion of ATA CHAPTER 51, the trainee will be able to:

- Define and understand the AS 365 N3 structure and standard practices architecture and general maintenance.

CONTENTS:

Training Level	Duration (hrs;mins)	Contents	Method	Materials Used
Level 3 (as per MTP Part 1.2.2)	1:00	1. General Overview 2. Basic Architecture 3. Location 4. Maintenance 5. Construction Areas	1. PDF presentation 2. Laptop 3. Classroom (as per MTP Part 1.2.2)	1. Training Notes 2. Instructor Guide (as per MTP Part 1.6)

ATA CHAPTER 53

OBJECTIVES: After completion of ATA CHAPTER 53, the trainee will be able to:

- Define and understand the AS 365 N3 fuselage components, location and detailed functioning.

CONTENTS:

Training Level	Duration (hrs;mins)	Contents	Method	Materials Used
Level 3 (as per MTP Part 1.2.2)	1:00	1. General Overview 2. Location 3. Detailed Functioning 4. Crawling And Fairings 5. Protective Treatment	1. PDF presentation 2. Laptop 3. Classroom (as per MTP Part 1.2.2)	1. Training Notes 2. Instructor Guide (as per MTP Part 1.6)

ATA CHAPTER 55

OBJECTIVES: After completion of ATA CHAPTER 55, the trainee will be able to:

- Define and understand the AS 365 N3 vertical stabilizers operation and maintenance.

CONTENTS:

Training Level	Duration (hrs;mins)	Contents	Method	Materials Used
Level 3 (as per MTP Part 1.2.2)	1:00	1. General Overview 2. Vertical Stabilizers 3. Maintenance	1. PDF presentation 2. Laptop 3. Classroom (as per MTP Part 1.2.2)	1. Training Notes 2. Instructor Guide (as per MTP Part 1.6)

ATA CHAPTER 52

OBJECTIVES: After completion of ATA CHAPTER 52, the trainee will be able to:

- Define and understand the AS 365 N3 type of doors and operations.

CONTENTS:

Training Level	Duration (hrs;mins)	Contents	Method	Materials Used
Level 3 (as per MTP Part 1.2.2)	2:00	1. General Overview 2. Crew Forward Passenger Doors 3. Degraded Mode 4. Rear Cabin Door 5. Enlarged And Curved Sliding Doors 6. Cargo Compartment Door 7. Inspection Panels	1. PDF presentation 2. Laptop 3. Classroom (as per MTP Part 1.2.2)	1. Training Notes 2. Instructor Guide (as per MTP Part 1.6)

ATA CHAPTER 07

OBJECTIVES: After completion of ATA CHAPTER 07, the trainee will be able to:

- Define and understand the AS 365 N3 jacking and hoisting operation.

CONTENTS:

Training Level	Duration (hrs;mins)	Contents	Method	Materials Used
Level 1 (as per MTP Part 1.2.2)	1:00	1. General Overview 2. Jacking and Hoisting 3. Jacking 4. Transportation By Sea	1. PDF presentation 2. Laptop 3. Classroom (as per MTP Part 1.2.2)	1. Training Notes 2. Instructor Guide (as per MTP Part 1.6)

ATA CHAPTER 08

OBJECTIVES: After completion of ATA CHAPTER 08, the trainee will be able to:

- Define and understand the AS 365 N3 levelling, weighing and alignment procedure.

CONTENTS:

Training Level	Duration (hrs;mins)	Contents	Method	Materials Used
Level 1 (as per MTP Part 1.2.2)	1:00	1. General Overview 2. Alignment 3. Weighing	1. PDF presentation 2. Laptop 3. Classroom (as per MTP Part 1.2.2)	1. Training Notes 2. Instructor Guide (as per MTP Part 1.6)

ATA CHAPTER 09

OBJECTIVES: After completion of ATA CHAPTER 09, the trainee will be able to:

- Define and understand the AS 365 N3 towing, maneuvering and hauling procedure.

CONTENTS:

Training Level	Duration (hrs;mins)	Contents	Method	Materials Used
Level 1 (as per MTP Part 1.2.2)	1:00	1. General Overview 2. Towing 3. Maneuvering 4. Hauling	1. PDF presentation 2. Laptop 3. Classroom (as per MTP Part 1.2.2)	1. Training Notes 2. Instructor Guide (as per MTP Part 1.6)

ATA CHAPTER 10

OBJECTIVES: After completion of ATA CHAPTER 10, the trainee will be able to:

- Define and understand the AS 365 N3 outdoor parking, ground mooring and lashing procedure.

CONTENTS:

Training Level	Duration (hrs;mins)	Contents	Method	Materials Used
Level 1 (as per MTP Part 1.2.2)	1:00	1. General Overview 2. Parking Outdoor 3. Ground Mooring 4. Lashing	4. PDF presentation 5. Laptop 6. Classroom (as per MTP Part 1.2.2)	1. Training Notes 2. Instructor Guide (as per MTP Part 1.6)

ATA CHAPTER 11

OBJECTIVES: After completion of ATA CHAPTER 11, the trainee will be able to:

- Identify and locate the AS 365 N3 internal and external placards.

CONTENTS:

Training Level	Duration (hrs;mins)	Contents	Method	Materials Used
Level 1 (as per MTP Part 1.2.2)	1:00	1. General Overview	1. PDF presentation 2. Laptop 3. Classroom (as per MTP Part 1.2.2)	1. Training Notes 2. Instructor Guide (as per MTP Part 1.6)

ATA CHAPTER 12

OBJECTIVES: After completion of ATA CHAPTER 12, the trainee will be able to:

- Define and understand the AS 365 N3 service routine maintenance performed regularly.

CONTENTS:

Training Level	Duration (hrs;mins)	Contents	Method	Materials Used
Level 1 (as per MTP Part 1.2.2)	1:00	1. General Overview 2. Access To Workstation 3. Filling And Draining, Magnetic Elements 4. Lubrication 5. Inflation Pressure 6. Bleeding	1. PDF presentation 2. Laptop 3. Classroom (as per MTP Part 1.2.2)	1. Training Notes 2. Instructor Guide (as per MTP Part 1.6)

ATA CHAPTER 20

OBJECTIVES: After completion of ATA CHAPTER 20, the trainee will be able to:

- Define and understand the AS 365 N3 airframe standard practices, general maintenance and safety precautions.

CONTENTS:

Training Level	Duration (hrs;mins)	Contents	Method	Materials Used
Level 1 (as per MTP Part 1.2.2)	1:00	1. General Overview 2. Handling, Safety Rules and Instructions 3. Maintenance 4. Precautions For the Use of Refrigerants In Air Conditioning	1. PDF presentation 2. Laptop 3. Classroom (as per MTP Part 1.2.2)	1. Training Notes 2. Instructor Guide (as per MTP Part 1.6)

1.5.3 Phase No. 3

ATA CHAPTER 63/63A

OBJECTIVES: After completion of ATA CHAPTER 63/63A, the trainee will be able to:

- Define and understand the AS 365 N3 main rotor drive architecture, components, normal functioning and maintenance.

CONTENTS:

Training Level	Duration (hrs;mins)	Contents	Method	Materials Used
Level 3 (as per MTP Part 1.2.2)	3:00	1. Basic Architecture 2. Engine to MGB Coupling Assembly 3. MGB Assembly 4. Normal Functioning 5. Rotor Brake 6. Normal Functioning 7. Maintenance	1. PDF presentation 2. Laptop 3. Classroom (as per MTP Part 1.2.2)	1. Training Notes 2. Instructor Guide (as per MTP Part 1.6)

ATA CHAPTER 62/62A

OBJECTIVES: After completion of ATA CHAPTER 62/62A, the trainee will be able to:

- Define and understand the AS 365 N3 main rotor components, operations, controls and indications.

CONTENTS:

Training Level	Duration (hrs;mins)	Contents	Method	Materials Used
Level 3 (as per MTP Part 1.2.2)	4:00	1. General Overview 2. Main Rotor Blades 3. Main Rotor Head 4. Main Rotor Shaft 5. Rotor Speed Indicating	1. PDF presentation 2. Laptop 3. Classroom (as per MTP Part 1.2.2)	1. Training Notes 2. Instructor Guide (as per MTP Part 1.6)

ATA CHAPTER 65/65A

OBJECTIVES: After completion of ATA CHAPTER 65/65A, the trainee will be able to:

- Define and understand the AS 365 N3 tail rotor drives components, operations, assembly, controls and indications.

CONTENTS:

Training Level	Duration (hrs;mins)	Contents	Method	Materials Used
Level 3 (as per MTP Part 1.2.2)	2:00	1. General Overview 2. Tail Rotor Drive Assembly	1. PDF presentation 2. Laptop 3. Classroom (as per MTP Part 1.2.2)	1. Training Notes 2. Instructor Guide (as per MTP Part 1.6)

ATA CHAPTER 64

OBJECTIVES: After completion of ATA CHAPTER 64, the trainee will be able to:

- Define and understand the AS 365 N3 tail rotor components, operations and normal functioning.

CONTENTS:

Training Level	Duration (hrs;mins)	Contents	Method	Materials Used
Level 3 (as per MTP Part 1.2.2)	2:00	1. General Overview 2. Normal Functioning	1. PDF presentation 2. Laptop 3. Classroom (as per MTP Part 1.2.2)	1. Training Notes 2. Instructor Guide (as per MTP Part 1.6)

ATA CHAPTER 60

OBJECTIVES: After completion of ATA CHAPTER 60, the trainee will be able to:

- Define and understand the AS 365 N3 rotor standard practices and general maintenance.

CONTENTS:

Training Level	Duration (hrs;mins)	Contents	Method	Materials Used
Level 3 (as per MTP Part 1.2.2)	1:00	1. General Overview 2. Maintenance 3. Check And Correction of Horizontal And Vertical Vibration	1. PDF presentation 2. Laptop 3. Classroom (as per MTP Part 1.2.2)	1. Training Notes 2. Instructor Guide (as per MTP Part 1.6)

ATA CHAPTER 66

OBJECTIVES: After completion of ATA CHAPTER 66, the trainee will be able to:

- Define and understand the AS 365 N3 blade folding components and operation.

CONTENTS:

Training Level	Duration (hrs;mins)	Contents	Method	Materials Used
Level 3 (as per MTP Part 1.2.2)	1:00	1. System Overview 2. Components Description 3. Operation 4. Air Flow	1. PDF presentation 2. Laptop 3. Classroom (as per MTP Part 1.2.2)	1. Training Notes 2. Instructor Guide (as per MTP Part 1.6)

ATA CHAPTER 29/29A

OBJECTIVES: After completion of ATA CHAPTER 29/29A, the trainee will be able to:

- Define and understand the AS 365 N3 hydraulic power architecture, components, operations, controls and indications.

CONTENTS:

Training Level	Duration (hrs;mins)	Contents	Method	Materials Used
Level 3 (as per MTP Part 1.2.2)	3:00	1. General Overview 2. Basic Architecture 3. Degraded Mode 4. Hydraulic Power System 5. Emergency Hydraulic Power System 6. Normal Functioning 7. Utility Hydraulic Power System 8. Normal Functioning	1. PDF presentation 2. Laptop 3. Classroom (as per MTP Part 1.2.2)	1. Training Notes 2. Instructor Guide (as per MTP Part 1.6)

ATA CHAPTER 32/32A

OBJECTIVES: After completion of ATA CHAPTER 32/32A, the trainee will be able to:

- Define and understand the AS 365 N3 landing gear architecture, components, operations, controls and indications.

CONTENTS:

Training Level	Duration (hrs;mins)	Contents	Method	Materials Used
Level 3 (as per MTP Part 1.2.2)	3:00	1. General Overview 2. Basic Architecture 3. Main Landing Gear 4. Nose Landing Gear 5. Extension and Retraction 6. Wheel and Brakes 7. Nose Wheel Center Locking 8. Tail Guard	1. PDF presentation 2. Laptop 3. Classroom (as per MTP Part 1.2.2)	1. Training Notes 2. Instructor Guide (as per MTP Part 1.6)

ATA CHAPTER 67

OBJECTIVES: After completion of ATA CHAPTER 67, the trainee will be able to:

- Define and understand the AS 365 N3 rotors flight control, components, operations, rigging and test.

CONTENTS:

Training Level	Duration (hrs;mins)	Contents	Method	Materials Used
Level 3 (as per MTP Part 1.2.2)	5:00	1. General Overview 2. Main Rotor Controls 3. Normal Functioning 4. Tail Rotor Controls 5. Tail Rotor Channel Rigging 6. Main Servo Controls 7. Manual Test 8. Tail Servo Control	1. PDF presentation 2. Laptop 3. Classroom (as per MTP Part 1.2.2)	1. Training Notes 2. Instructor Guide (as per MTP Part 1.6)

ATA CHAPTER 28/28A

OBJECTIVES: After completion of ATA CHAPTER 28/28A, the trainee will be able to:

- Define and understand the AS 365 N3 fuel system components, operations, normal functioning and degraded mode, controls and indications.

CONTENTS:

Training Level	Duration (hrs;mins)	Contents	Method	Materials Used
Level 3 (as per MTP Part 1.2.2)	4:00	1. General Overview 2. Normal Functioning 3. Detailed Functioning 4. Functioning Monitoring and Indicating 5. Distribution Degraded Mode 6. Maintenance 7. A3 Printing	1. PDF presentation 2. Laptop 3. Classroom (as per MTP Part 1.2.2)	1. Training Notes 2. Instructor Guide (as per MTP Part 1.6)

ATA CHAPTER 26

OBJECTIVES: After completion of ATA CHAPTER 26, the trainee will be able to:

- Define and understand the AS 365 N3 fire protection components, operations, normal functioning and degraded mode.
- Describe the fire detection and extinguishing system.

CONTENTS:

Training Level	Duration (hrs;mins)	Contents	Method	Materials Used
Level 3 (as per MTP Part 1.2.2)	2:00	1. General Overview 2. Engine Fire Detection 3. Normal Functioning 4. Detailed Functioning 5. Degraded Mode 6. Manual Test 7. Cargo Compartment 8. Engine Fore Extinguishing	1. PDF presentation 2. Laptop 3. Classroom (as per MTP Part 1.2.2)	1. Training Notes 2. Instructor Guide (as per MTP Part 1.6)

ATA CHAPTER 70/70A/70B

OBJECTIVES: After completion of ATA CHAPTER 70/70A/70B, the trainee will be able to:

- Define and understand the AS 365 N3 engine standard practices, safety conditions and general maintenance.

CONTENTS:

Training Level	Duration (hrs;mins)	Contents	Method	Materials Used
Level 3 (as per MTP Part 1.2.2)	3:00	1. Engine Installation 2. Engine Mounts 3. Fire Walls 4. Air Intakes 5. Connections 6. Drain 7. Engine Overview 8. Maintenance 9. Anticipator Control 10. Engine Compartment 11. Engine Mounting and Lifting 12. Engine/Airframe Power Transmission 13. Engine/Airframe System 14. Fire Protection 15. Engine Installation – 1st Line Maintenance	1. PDF presentation 2. Laptop 3. Classroom (as per MTP Part 1.2.2)	1. Training Notes 2. Instructor Guide (as per MTP Part 1.6)

1.5.4 Phase No. 4

ATA CHAPTER 71

OBJECTIVES: After completion of ATA CHAPTER 71, the trainee will be able to:

- Define and understand the AS 365 N3 powerplant system overview, principle, characteristic, design, development and general maintenance.

CONTENTS:

Training Level	Duration (hrs;mins)	Contents	Method	Materials Used
Level 3 (as per MTP Part 1.2.2)	3:00	1. General Overview 2. General 3. Principle of Adaptation to the Helicopter 4. Main Characteristics 5. Design and Development 6. Maintenance	1. PDF presentation 2. Laptop 3. Classroom (as per MTP Part 1.2.2)	1. Training Notes 2. Instructor Guide (as per MTP Part 1.6)

ATA CHAPTER 72

OBJECTIVES: After completion of ATA CHAPTER 72, the trainee will be able to:

- Define and understand the AS 365 N3 engine overview, components and operation.

CONTENTS:

Training Level	Duration (hrs;mins)	Contents	Method	Materials Used
Level 3 (as per MTP Part 1.2.2)	4:30	1. General Overview 2. Engine – Presentation 3. Axial Compressor 4. Centrifugal Compressor 5. Combustion Chamber 6. Gas Generator Turbine 7. Power Turbine 8. Reduction Gearbox 9. Transmission Shaft and Accessory Gearbox 10. Engine – Operation 11. Engine – 1st Line Maintenance 12. Alternator 13. Electrical System – 1st Line Maintenance	1. PDF presentation 2. Laptop 3. Classroom (as per MTP Part 1.2.2)	1. Training Notes 2. Instructor Guide (as per MTP Part 1.6)

ATA CHAPTER 78

OBJECTIVES: After completion of ATA CHAPTER 78, the trainee will be able to:

- Define and understand the AS 365 N3 engine exhaust system overview and components description.

CONTENTS:

Training Level	Duration (hrs;mins)	Contents	Method	Materials Used
Level 3 (as per MTP Part 1.2.2)	0:30	1. Exhaust System	1. PDF presentation 2. Laptop 3. Classroom (as per MTP Part 1.2.2)	1. Training Notes 2. Instructor Guide (as per MTP Part 1.6)

ATA CHAPTER 73

OBJECTIVES: After completion of ATA CHAPTER 73, the trainee will be able to:

- Define and understand the AS 365 N3 engine fuel and control system architecture, components and operation.

CONTENTS:

Training Level	Duration (hrs;mins)	Contents	Method	Materials Used
Level 3 (as per MTP Part 1.2.2)	5:00	1. Engine Governing 2. Engine Rating 3. Detailed Functioning 4. Degraded Mode 5. Back Up – Control 6. Emergency Shutdown 7. General Overview 8. Pump and Metering Unit Assembly 9. Fuel Pumps 10. Fuel Filter 11. Fuel Filter Indication 12. Low Fuel Pressure Switch 13. Start Purge Valve 14. Metering Unit – General (2C) 15. Metering Unit – Manual Control System (2C) 16. Metering Unit – General (2C1-2C2) 17. Fuel Valve Assembly Presentation 18. Fuel Injection System 19. Main Injection System 20. Combustion Chamber Drain Valve 21. Fuel System – Operation 22. Normal Functioning – Back Up Control 23. External Fuel Pipes 24. Fuel System – 1st Line Maintenance	1. PDF presentation 2. Laptop 3. Classroom (as per MTP Part 1.2.2)	1. Training Notes 2. Instructor Guide (as per MTP Part 1.6)

ATA CHAPTER 75

OBJECTIVES: After completion of ATA CHAPTER 75, the trainee will be able to:

- Define and understand the AS 365 N3 engine air system overview, components and operations.

CONTENTS:

Training Level	Duration (hrs;mins)	Contents	Method	Materials Used
Level 3 (as per MTP Part 1.2.2)	3:00	1. Air System-Presentation 2. Internal Air System 3. Air Tapings 4. Compressor Bleed Valve 5. P3 Pressure Transmitter 6. External Air Pipes 7. Air System – 1st Line Maintenance	1. PDF presentation 2. Laptop 3. Classroom (as per MTP Part 1.2.2)	1. Training Notes 2. Instructor Guide (as per MTP Part 1.6)

ATA CHAPTER 76

OBJECTIVES: After completion of ATA CHAPTER 76, the trainee will be able to:

- Define and understand the AS 365 N3 engine control components, operations, controls and indications.

CONTENTS:

Training Level	Duration (hrs;mins)	Contents	Method	Materials Used
Level 3 (as per MTP Part 1.2.2)	5:00	1. Control System - Presentation 2. Engine Electronic Control Unit 3. Control System – Operation 4. Control System – Indication and Monitoring 5. Control System – General Operation 6. Control System – 1st Line Maintenance 7. Corrective Maintenance – EECU Maintenance	1. PDF presentation 2. Laptop 3. Classroom (as per MTP Part 1.2.2)	1. Training Notes 2. Instructor Guide (as per MTP Part 1.6)

ATA CHAPTER 77

OBJECTIVES: After completion of ATA CHAPTER 34, the trainee will be able to:

- Define and understand the AS 365 N3 engine indicating components, controls and indications.

CONTENTS:

Training Level	Duration (hrs;mins)	Contents	Method	Materials Used
Level 3 (as per MTP Part 1.2.2)	4:00	1. Engine Failure Monitoring 2. DECU Failure Monitoring 3. DECU Auto - Test 4. Failure Annunciator System 5. Engine Parameter Monitoring 6. Engine Speed Monitoring System 7. NG Speed Monitoring System 8. Engine Torque Monitoring System 9. T 4.5 Monitoring System 10. NF Speed Monitoring System 11. Free Turbine Overspeed Safety Monitoring 12. Free Turbine Overspeed Logic Test 13. Measurement and Indicating Systems – Presentation 14. Speed Measurement and Indicating System 15. N2 Speed Sensors 16. T4.5 Measurement and Indicating System 17. Torque Measurement and Indicating System 18. Miscellaneous Indications 19. Measurement and Indicating System – 1st Line Maintenance	1. PDF presentation 2. Laptop 3. Classroom (as per MTP Part 1.2.2)	1. Training Notes 2. Instructor Guide (as per MTP Part 1.6)

ATA CHAPTER 79

OBJECTIVES: After completion of ATA CHAPTER 79, the trainee will be able to:

- Define and understand the AS 365 N3 engine lubrication system components, operations, controls and indications.

CONTENTS:

Training Level	Duration (hrs;mins)	Contents	Method	Materials Used
Level 3 (as per MTP Part 1.2.2)	3:00	1. Engine Oil System 2. Chip Detection System 3. Normal Functioning 4. Oil System – Presentation 5. Oil Tank – Oil Cooler – Oil Pressure Transmitter 6. Oil Pump 7. Oil Filter Heat Exchanger 8. Oil Filter Pre – Blockage Indication 9. Mechanical Magnetic Plugs 10. Oil Valve Assembly 11. Electrical Magnetic Plugs 12. Centrifugal Breather 13. Oil System – 18T Line Maintenance	1. PDF presentation 2. Laptop 3. Classroom (as per MTP Part 1.2.2)	1. Training Notes 2. Instructor Guide (as per MTP Part 1.6)

ATA CHAPTER 80

OBJECTIVES: After completion of ATA CHAPTER 80, the trainee will be able to:

- Define and understand the AS 365 N3 engine starting system procedure, components and troubleshooting.

CONTENTS:

Training Level	Duration (hrs;mins)	Contents	Method	Materials Used
Level 3 (as per MTP Part 1.2.2)	1:30	1. Engine Starting System 2. Normal Procedures 3. Emergency Procedures 4. Starting System – Presentation 5. Starter Generator 6. Starting System - 1st Line Maintenance 7. Troubleshooting	1. PDF presentation 2. Laptop 3. Classroom (as per MTP Part 1.2.2)	1. Training Notes 2. Instructor Guide (as per MTP Part 1.6)

ATA CHAPTER 74

OBJECTIVES: After completion of ATA CHAPTER 74, the trainee will be able to:

- Define and understand the AS 365 N3 engine ignition system overview, components and operations.

CONTENTS:

Training Level	Duration (hrs;mins)	Contents	Method	Materials Used
Level 3 (as per MTP Part 1.2.2)	0:30	1. Ignition System	4. PDF presentation 5. Laptop 6. Classroom (as per MTP Part 1.2.2)	3. Training Notes 4. Instructor Guide (as per MTP Part 1.6)

ATA CHAPTER 21/21A

OBJECTIVES: After completion of ATA CHAPTER 21/21A, the trainee will be able to:

- Define and understand the AS 365 N3 air conditioning system architecture, components, operations, controls and indication.

CONTENTS:

Training Level	Duration (hrs;mins)	Contents	Method	Materials Used
Level 3 (as per MTP Part 1.2.2)	2:00	1. General overview 2. Heating 3. Cabin Air Cooling 4. Basic Architecture	1. PDF presentation 2. Laptop 3. Classroom (as per MTP Part 1.2.2)	1. Training Notes 2. Instructor Guide (as per MTP Part 1.6)

1.6 TRAINING COURSE MATERIALS

1.6.1 Training Notes

Phase No.	Training Notes Reference	Issue No.	Revision No.	Date
1	GAM/CAAM/TN/AS365N3/B1B2/P1	1	0	01 August 2023
2	GAM/CAAM/TN/AS365N3/B1B2/P2	1	0	01 August 2023
3	GAM/CAAM/TN/AS365N3/B1B2/P3	1	0	01 August 2023
4	GAM/CAAM/TN/AS365N3/B1B2/P4	1	0	01 August 2023

1.6.2 Instructor Guide

No.	Instructor Guide Reference	Issue No.	Revision No.	Date
1.	GAM/CAAM/IG/AS365N3/B1B2	1	0	01 August 2023

1.7 LIST OF STRUCTURED PRACTICAL TRAINING AND ITS ASSOCIATED DOCUMENTS

a) The list of Structured Practical Training (SPT) tasks that are to be performed by the trainees are described in the SPT logbook.

b) Refer MTP Part 1.7.1 for the SPT syllabus and MTP Part 1.10 for the SPT logbook reference.

1.7.1 Training Syllabus – Structured Practical Training

Total Hours for Structured Practical Training (SPT):	60:00 Hours (10 Days)

Chapters		**Tasks for each ATA**	**Category B1.3 & B2**						**Min Tasks Required for Each ATA**
			LOC	**FOT**	**SGH**	**R/I**	**MEL**	**TS**	
Introduction Module:									
5	Inspection Schedules	1	1	—	—	—	—	—	**1**
6	Dimension and Arrangement	1	1	—	—	—	—	—	**1**
7	Lifting and Hoisting	1	1	—	—	—	—	—	**1**
8	Levelling, Weighing, Alignment	2	1	—	1	—	—	—	**1**
9	Towing - Taxiing	2	1	—	1	—	—	—	**2**
10	Parking and Mooring	2	1	—	1	—	—	—	**1**
11	Placards and Markings	1	1	—	—	—	—	—	**1**
12	Service Routine Maintenance	2	1	—	1	—	—	—	**2**
20	Airframe Standard Practices	2	1	—	1	—	—	—	**2**
Introduction Module Total Tasks:		14	9	—	5	—	—	—	**Total Min Tasks Required:**
Min Tasks Performed on Each Task Code:			**8**	—	**4**	—	—	—	
									12
Helicopters:									
18	Vibration and Noise Analysis	2	1	—	—	—	—	1	**1**

Chapters		Tasks for each ATA	Category B1.3 & B2						Min Tasks Required for Each ATA
			LOC	FOT	SGH	R/I	MEL	TS	
60	Standard Practices Rotor	2	1	—	1	—	—	—	**1**
62	Main Rotor	6	1	1	1	1	1	1	**3**
62A	Main Rotor - Monitoring and Indicating								
63	Main Rotors Drive	5	1	1	—	1	1	1	**3**
63A	Main Rotor Drive – Monitoring and Indicating								
64	Tail Rotor	3	1	—	1	—	—	1	**2**
65	Tail Rotors Drives	4	1	1	—	1	0	1	**2**
65A	Tail Rotors Drives - Monitoring and Indicating								
66	Blade Folding	2	1	—	1	—	—	—	**1**
67	Rotors Flight Control	5	1	1	1	—	1	1	**3**
25	Emergency Flotation Equipment	6	1	1	1	1	1	1	**3**
Helicopters Total Tasks:		35	9	5	6	4	4	7	**Total Min Tasks Required:**
Min Tasks Performed on Each Task Code:			**5**	**3**	**3**	**2**	**2**	**4**	
									19
Airframe Structures:									
53	Fuselage	2	1	—	—	—	—	1	**1**
55	Stabilizers	1	1	—	—	—	—	—	**1**
52	Doors	3	1	1	1	—	—	—	**2**
Airframe Structures Total Tasks:		6	3	1	1	—	—	1	**Total Min Tasks Required:**
Min Tasks Performed on Each Task Code:			**1**	**1**	**1**	**—**	**—**	**1**	
									4

Chapters		Tasks for each ATA	Category B1.3 & B2						Min Tasks Required for Each ATA
			LOC	FOT	SGH	R/I	MEL	TS	
Airframe systems:									
21	Air Conditioning	5	1	1	1	—	1	1	**3**
21A	Air Supply								
22	Autoflight	6	1	1	1	1	1	1	**3**
23	Communications	6	1	1	1	1	1	1	**3**
24	Electrical Power	6	1	1	1	1	1	1	**3**
25	Equipment / Furnishings	4	1	1	1	1	—	—	**2**
25A	Electronic Equipment / emergency equipment	6	1	1	1	1	1	1	**3**
26	Fire Protection	6	1	1	1	1	1	1	**3**
28	Fuel System	6	1	1	1	1	1	1	**3**
28A	Fuel System - Monitoring and Indicating								
29	Hydraulic Power	5	1	1	1	1	0	1	**3**
29A	Hydraulic Power - Monitoring and Indicating								
30	Ice and Rain Protection	6	1	1	1	1	1	1	**3**
31	Indicating / Recording Systems	6	1	1	1	1	1	1	**3**
31A	Instruments System								
32	Landing Gear	6	1	1	1	1	1	1	**3**
32A	Landing Gear - Monitoring and Indicating								
33	Lights	5	1	1	1	1	1	—	**3**
34	Navigation	6	1	1	1	1	1	1	**3**

Chapters		Tasks for each ATA	Category B1.3 & B2						Min Tasks Required for Each ATA
			LOC	FOT	SGH	R/I	MEL	TS	
45	Centralized Maintenance System	5	1	1	1	1	0	1	**3**
Airframe Systems Total Tasks:		84	15	15	15	14	12	13	**Total Min Tasks Required:**
Min Tasks Performed on Each Task Code:			**8**	**8**	**8**	**7**	**6**	**7**	
Total Tasks Performed on Each Task Code:									**44**
Turbine/Piston Engine Module:									
70	Standard Practices - Engine	3	1	—	1	—	—	1	**2**
70A	Constructional arrangement and operation								
70B	Engine Performance								
71	Powerplant	3	1	1	1	—	—	—	**2**
72	Engine	1	1	—	—	—	—	—	**1**
73	Engine Fuel System	4	1	1	—	1	—	1	**2**
74	Engine Ignition System	2	1	1	—	—	—	—	**1**
75	Engine Air System	3	1	—	—	1	—	1	**2**
76	Engine Control System	3	1	1	—	—	—	1	**2**
77	Engine Indicating	4	1	1	—	—	1	1	**2**
78	Engine Exhaust System	2	1	1	—	—	0	—	**1**
79	Lubrication	3	1	—	1	1	—	—	**2**
80	Starting	3	1	1	—	—	0	1	**2**
Turbine/Piston Engine Module Total Tasks:		31	11	7	3	3	1	6	**Total Min Tasks Required:**
Min Tasks Performed on Each Task Code:			**6**	**4**	**2**	**2**	**1**	**4**	
									19

Grand Total of Tasks:	**170**	**Category B1.3 & B2**						**Grand Total of Min Tasks Required:**
		LOC	**FOT**	**SGH**	**R/I**	**MEL**	**TS**	
Grand Total of Tasks on Each Task Code:		47	28	30	21	17	27	**98**
Grand Total of Min Tasks Performed on Each Task Code:		**28**	**16**	**18**	**11**	**9**	**16**	

Note:

1/2/3/4/5/6:	Number of Structured Practical Training (SPT) tasks
0:	Task required by CAAM CAD 1801 Appendix 3.1, however unable to meet due to tasks not available as per AS 365 N3 MET – Maintenance Manual Rev. NR009 dated 23/02/2023.
—:	Task not required by CAAM CAD 1801 Appendix 3.1

1.8 STRUCTURED PRACTICAL TRAINING LOGBOOK / TASK RELATED

a) The AIRBUS HELICOPTERS AS 365 N3 (SAFRAN ARRIEL 2C) CAAM Part 66 Category B1.3 & B2 type training course's Structured Practical Training (SPT) tasks is tailored to meet the requirements for endorsement in the CAAM Part 145 individual authorisation.

b) The SPT tasks are specifically designed for the certifying staff Category B1.3 and B2 as identified in the SPT logbook.

c) The SPT logbook is developed based on the format of CAAM/AW/1801-11 CAAM PART 66 - Aircraft Type Practical Training, Aircraft Maintenance Licence's Logbook.

d) The SPT logbook serves as a record for essential details such as personnel data, SPT tasks performed and practical assessments.

e) Trainees are required to perform at least the minimum tasks required for each ATA and meet the grand total of minimum tasks required as indicated in the SPT logbook Section 2.3 to be able to qualify for the practical assessment.

f) By derogation to above MTP Part 1.8 (e), if the trainee does not meet the requirements, he will not be allowed to sit for the practical assessment.

g) Refer to MTP Part 1.10 for the SPT logbook reference.

1.9 OPERATIONAL SUITABILITY DATA

a) During development of this Maintenance Training Programme these Operational Suitability Data (OSD) are referred to:

i. MMEL – AIRBUS HELICOPTERS AS 365 N3 MMEL Normal Revision 0 Issue 2, Date Code 10-05– or later approved RN

ii. Flight Crew Data - Airbus Helicopters Document 365ABN0399 - Flight Crew Data for Dauphin Helicopters Family, including:

- Appendix A: OSD Cover Sheet to Appendix B: Division of Mandatory Data – Non Mandatory Data

- Appendix B: Operational Evaluation Board Report - Final Report - Version 2, dated 8 February 2012

1.10 CROSS REFERENCING OF STRUCTURED PRACTICAL TRAINING LOGBOOK

a) Refer below for the AIRBUS HELICOPTERS AS 365 N3 (SAFRAN ARRIEL 2C) CAAM Part 66 Category B1.3 and B2 Structured Practical Training (SPT) logbook reference material:

No.	Structured Practical Training (SPT) Logbook Reference	Issue No.	Revision No.	Date
1.	GAM/CAAM/SPTL/AS365N3/B1B2	1	0	01 Aug 2023

PART 2:

ASSESSMENT AND EXAMINATION

2.1 ASSESSMENT PLAN

2.1.1 Practical Assessment Standard

a) The practical assessment standard for AIRBUS HELICOPTERS AS 365 N3 (SAFRAN ARRIEL 2C) CAAM Part 66 Category B1.3 and B2 type training shall make a reference to the MTOE Part 2.13.

b) Disqualification of practical assessment for AIRBUS HELICOPTERS AS 365 N3 (SAFRAN ARRIEL 2C) CAAM Part 66 Category B1.3 and B2 type training shall make a reference to the MTOE Part 2.13 (l).

c) The practical assessor shall assess the trainee on three (3) different practical element tasks based on the approved Practical Assessment Questions and the trainee must pass all to be considered as competent. Refer SPT Logbook Section 3.1.

d) By derogation from above MTP Part 2.1.1 (c), the practical assessment shall include the observable behaviour that require the competency of relevant knowledge, skill and attitude as described in the SPT Logbook Section 3.3.

e) If the trainee does not PASS the assessment, the trainee is allowed to attend a maximum of two (2) re-assessments. Refer MTP Part 2.3.2 for re-assessments.

2.1.2 Document Reference

2.1.2.1 Structured Practical Training Logbook

a) The Structured Practical Training (SPT) logbook of AIRBUS HELICOPTERS AS 365 N3 (SAFRAN ARRIEL 2C) CAAM Part 66 Category B1.3 and B2 type training shall make a reference to MTP Part 1.10.

2.1.2.2 Practical Assessment Record

a) The practical assessment record of AIRBUS HELICOPTERS AS 365 N3 (SAFRAN ARRIEL 2C) CAAM Part 66 Category B1.3 and B2 type training shall make a reference to the SPT logbook Section 3.1 as described in MTP Part 1.10.

2.1.2.3 Practical Assessment Schedule

a) The practical assessment schedule for AIRBUS HELICOPTERS AS 365 N3 (SAFRAN ARRIEL 2C) CAAM Part 66 Category B1.3 and B2 type training shall be as outlined in MTP Part 1.4.2.

2.1.2.4 Practical Assessment Questions

a) The Practical Assessor (PA) shall refer to the Practical Assessment Questions (PAQ) when conducting the practical assessment.

b) The PAQ reference for AIRBUS HELICOPTERS AS 365 N3 (SAFRAN ARRIEL 2C) CAAM Part 66 Category B1.3 and B2 type training is as described below:

No.	Practical Assessment Questions (PAQ) Reference	Issue No.	Revision No.	Date
1.	GAM/CAAM/PAQ/AS365N3/B1B2	1	0	01 Aug 2023

2.2 EXAMINATION PLAN

2.2.1 Theoretical Examination Standard

a) Theoretical examination standard for AIRBUS HELICOPTERS AS 365 N3 (SAFRAN ARRIEL 2C) CAAM Part 66 Category B1.3 and B2 type training shall make a reference to MTOE Part 2.10.1.

b) Disqualification of exam paper shall make a reference to MTOE Part 2.12 (o) and Part 2.12 (p).

2.2.2 Document Reference

2.2.2.1 Examination Syllabus

a) The examination syllabus, number of questions and total of exam question for each phase of AIRBUS HELICOPTERS AS 365 N3 (SAFRAN ARRIEL 2C) CAAM Part 66 Category B1.3 and B2 type training shall make a reference to MTP Part 1.2.2.

2.2.2.2 Examination Schedule

a) The examination schedule for AIRBUS HELICOPTERS AS 365 N3 (SAFRAN ARRIEL 2C) CAAM Part 66 Category B1.3 and B2 type training shall be as outlined in MTP Part 1.4.2.

2.2.2.3 Examination Paper Reference

a) The examination paper reference for theoretical element of AIRBUS HELICOPTERS AS 365 N3 (SAFRAN ARRIEL 2C) CAAM Part 66 Category B1.3 and B2 type training will be as indicated in the table below:

Phase No.	Examination Paper Reference	Issue No.	Revision No.	Date
1	GAM/CAAM/AS365N3/B1B2/P1/S1	1	0	01 August 2023
	GAM/CAAM/AS365N3/B1B2/P1/S2	1	0	01 August 2023
	GAM/CAAM/AS365N3/B1B2/P1/S3	1	0	01 August 2023
2	GAM/CAAM/AS365N3/B1B2/P2/S1	1	0	01 August 2023
	GAM/CAAM/AS365N3/B1B2/P2/S2	1	0	01 August 2023
	GAM/CAAM/AS365N3/B1B2/P2/S3	1	0	01 August 2023
3	GAM/CAAM/AS365N3/B1B2/P3/S1	1	0	01 August 2023
	GAM/CAAM/AS365N3/B1B2/P3/S2	1	0	01 August 2023
	GAM/CAAM/AS365N3/B1B2/P3/S3	1	0	01 August 2023
4	GAM/CAAM/AS365N3/B1B2/P4/S1	1	0	01 August 2023
	GAM/CAAM/AS365N3/B1B2/P4/S2	1	0	01 August 2023
	GAM/CAAM/AS365N3/B1B2/P4/S3	1	0	01 August 2023

2.3 RE-EXAMINATION AND RE-ASSESSMENT

2.3.1 Re-Examination

a) Re-examination of the AIRBUS HELICOPTERS AS 365 N3 (SAFRAN ARRIEL 2C) CAAM Part 66 Category B1.3 and B2 type training shall make a reference to MTOE Part 2.14.2.

b) The records of re-examination shall make a reference to TPM Part 2.14.2.

2.3.2 Re-Assessment

a) Re-assessment of the AIRBUS HELICOPTERS AS 365 N3 (SAFRAN ARRIEL 2C) CAAM Part 66 Category B1.3 and B2 type training shall make a reference to MTOE Part 2.13 (j).

b) If trainees encounter particular situations where they're unable to complete the practical assessment according to the training course schedule as outlined in MTP Part 1.4.2, they shall complete the practical assessment within two (2) years from the start date of the type training, under such circumstances.

c) The records of re-assessment shall make a reference to TPM Part 2.14.3.

PART 3:

FACILITY AND PERSONNEL

3.1 INSTRUCTIONAL STAFF AND CAPABILITY MATRIX

3.1.1 Instructor

No.	Name of Instructor	Licence Category	Capability
1.	Mohd Shahrul Aswad bin Mohd Zainal*	B1.3	ATA Chapter: 00, 05, 06, 39, 24, 18, 33, 25/25A, 30, 51, 53, 55, 52, 07, 08, 09, 10, 11, 12, 20, 63/63A, 62, 65/65A, 64, 60, 66, 29/29A, 32/32A, 67, 28/28A, 26, 70/70A/70B, 71, 72, 78, 73, 75, 76, 77, 79, 80, 74, 21/21A.
2.	Idros bin Abd Rahman*	B2	ATA Chapter: 00, 05, 06, 45, 39, 24, 31/31A, 18, 33, 23, 34, 22, 25/25A, 63/63A, 65/65A, 29/29A, 28/28A, 26, 73, 76, 77, 74, 21/21A.
3.	Ibrahim Hazly bin Mohamad Yusof*	B1.3	ATA Chapter: 00, 05, 06, 39, 24, 18, 33, 25/25A, 30, 51, 53, 55, 52, 07, 08, 09, 10, 11, 12, 20, 63/63A, 62, 65/65A, 64, 60, 66, 29/29A, 32/32A, 67, 28/28A, 26, 70/70A/70B, 71, 72, 78, 73, 75, 76, 77, 79, 80, 74, 21/21A.

Note:

*Associate Instructor

3.1.2 Knowledge Examiner

No.	Name of Instructor	Licence Category	Capability
1.	Mohd Shahrul Aswad bin Mohd Zainal*	B1.3	ATA Chapter: 00, 05, 06, 39, 24, 18, 33, 25/25A, 30, 51, 53, 55, 52, 07, 08, 09, 10, 11, 12, 20, 63/63A, 62, 65/65A, 64, 60, 66, 29/29A, 32/32A, 67, 28/28A, 26, 70/70A/70B, 71, 72, 78, 73, 75, 76, 77, 79, 80, 74, 21/21A.
2.	Idros bin Abd Rahman*	B2	ATA Chapter: 00, 05, 06, 45, 39, 24, 31/31A, 18, 33, 23, 34, 22, 25/25A, 63/63A, 65/65A, 29/29A, 28/28A, 26, 73, 76, 77, 74, 21/21A.
3.	Ibrahim Hazly bin Mohamad Yusof*	B1.3	ATA Chapter: 00, 05, 06, 39, 24, 18, 33, 25/25A, 30, 51, 53, 55, 52, 07, 08, 09, 10, 11, 12, 20, 63/63A, 62, 65/65A, 64, 60, 66, 29/29A, 32/32A, 67, 28/28A, 26, 70/70A/70B, 71, 72, 78, 73, 75, 76, 77, 79, 80, 74, 21/21A.

Note:

*Associate Knowledge Examiner

3.1.3 Practical Assessor

No.	Name of Instructor	Licence Category	Capability
1.	Mohd Shahrul Aswad bin Mohd Zainal*	B1.3	ATA Chapter: 00, 05, 06, 39, 24, 18, 33, 25/25A, 30, 51, 53, 55, 52, 07, 08, 09, 10, 11, 12, 20, 63/63A, 62, 65/65A, 64, 60, 66, 29/29A, 32/32A, 67, 28/28A, 26, 70/70A/70B, 71, 72, 78, 73, 75, 76, 77, 79, 80, 74, 21/21A.
2.	Idros bin Abd Rahman*	B2	ATA Chapter: 00, 05, 06, 45, 39, 24, 31/31A, 18, 33, 23, 34, 22, 25/25A, 63/63A, 65/65A, 29/29A, 28/28A, 26, 73, 76, 77, 74, 21/21A.
3.	Ibrahim Hazly bin Mohamad Yusof*	B1.3	ATA Chapter: 00, 05, 06, 39, 24, 18, 33, 25/25A, 30, 51, 53, 55, 52, 07, 08, 09, 10, 11, 12, 20, 63/63A, 62, 65/65A, 64, 60, 66, 29/29A, 32/32A, 67, 28/28A, 26, 70/70A/70B, 71, 72, 78, 73, 75, 76, 77, 79, 80, 74, 21/21A.

Note:

*Associate Practical Assessor

3.2 THE FACILITY FOR THE STRUCTURED PRACTICAL TRAINING AND ASSOCIATED AGREEMENT WITH OTHER ORGANISATION

3.2.1 Facilities

3.2.1.1 Practical Training – Address and Location

Galaxy Aerospace (M) Sdn. Bhd
Stesen Udara Maritim Subang,
Agensi Penguatkuasaan Maritim Malaysia,
Kementerian Dalam Negeri,
Jalan TUDM,
40150 Shah Alam,
Selangor, Malaysia.

3.2.1.2 Agreement

a) The practical training will be performed at GAM-AMO and will utilize the AS 365 N3 (ARRIEL 2C) owned by AGENSI PENGUATKUASAAN MARITIM MALAYSIA.

   i. M70-01 (Serial No.: 6723)

   ii. M70-02 (Serial No.: 6737)

   iii. M70-03 (Serial No.: 6741)

b) Reference to the agreement:

   i. Refer to GAM-AMO CAAM Certificate of Approval No. AMO/2016/02;

   ii. Letter from AGENSI PENGUATKUASAAN MARITIM MALAYSIA Ref. No. APMM.COU.200-1/1/1 Jld 2 (32) Dated 01 December 2022.

3.3 FACILITY FOR OTHER ACTIVITY

Reserved.

PART 4:

EVALUATION AND FEEDBACK

4.1 EVALUATION AND FEEDBACK

The evaluation of the type training must be a continuous process and should involve data collection by various means such as:

a) Independent audits;

i. An independent audit on training will be carried out to monitor the training and examination standards, compliance with and adequacy of the procedures to ensure GAM-MTO meets and continuously in compliance with the elements of its Maintenance Training Organisation Exposition (MTOE).

ii. The Principal Quality Assurance (Training) (PQAT) will be responsible for the audit of training and examination, including the associated feedback system. He shall have direct access to the Accountable Manager (AM) to ensure that the AM is kept properly informed on quality and compliance matters in a timely manner.

b) Feedback from trainees;

i. Trainees must complete the GAM/F-TPM2.5(03) Training Course Feedback and Evaluation form which is distributed to the on the last day of training.

ii. The GAM/F-TPM2.5(03) Training Course Feedback and Evaluation form will be analysed by the Training Manager (TM) for remedial action as necessary to ensure that the trainees acquire the skills and knowledge that should be gained from the training.

iii. This will help to identify training gaps and even discovers opportunities for improving the training programme.

c) Feedback from instructors and practical assessors;

i. Instructors and practical assessors can provide their feedback on the training or assessment by completing the GAM/F-TPM2.5(03) Training Course Feedback and Evaluation form which is distributed to the on the last day of training.

ii. The GAM/F-TPM2.5(03) Training Course Feedback and Evaluation form will be analysed by the Training Manager (TM) for remedial action as necessary to ensure the training provided meets it desired objective.

iii. This will help to identify training gaps and even discovers opportunities for improving the training programme.

d) Training course results;

i. An analysis is carried out on the examination results to ascertain that the training and/or examination was conducted to the predefined standards and to determine the cause if the predefined standards are not met.

ii. The Examination Manager (EM) will be responsible for the analysis of examination.

iii. Once the analysis indicates an unusual trend, the Examination Manager shall proceed for a review of the question/s, training course delivery or students' background to determine the cause.

4.2 TRAINING COURSE REPORT

a) The evaluation data collected must be analysed and improvement actions formulated and implemented. In order to determine the effectiveness of the improvement actions, data should be continuously collected and compared against past data before the implementation of improvement.

b) The aircraft type/task training course Certificate of Recognition (COR) will be issued after having successfully completed the training and passed the examination(s) and completed a practical training and passed the practical assessment.

c) The Examination Manager (EM) shall prepare, control and issue the Examination Report and Practical Assessment Report for the issuance of COR.

d) The Training Manager (TM) shall prepare, control and issue the COR after successful completion of the approved training (theoretical and practical), examination and practical assessment.

e) The issuance of Certificate of Recognition shall be as referred to in the MTOE Part 2.17.

f) A training course report shall be prepared by the Subject Matter Expert (SME) within twenty-one (21) days after the end of the training for data collection and shall include the following details:

i. Introduction

ii. Training Course Objectives

iii. Training Methodology

iv. Training Course Content

v. Participant Feedback

vi. Achievements and Outcomes

vii. Recommendations

viii. Conclusion