Aircraft Maintenance Course Catalogue

MAINTENANCE TRAINING

SINCE 1974

Dear Customer,

Nayak maintenance training is a training organisation which is approved by the Federal Office of Civil Aeronautics Germany (Luftfahrt-Bundesamt) according to EASA Part-147 requirements under the approval reference DE.147.0024.

The technical expertise as a MRO that we have gained in the course of the past decades enables us to train our own staff to the highest level. Therefore, we can also convey our experiences during our training sessions.

Besides efficient and productive in-class training sessions, we also offer you and your maintenance staff practical training. There you get the chance of working with real aircraft such as Airbus, Boeing and Bombardier models including the corresponding engine types.

Our assessors are very experienced certifying staff with valid EASA Part-66 CAT B1 and/or B2 licenses. Our instructors are well trained and experienced technicians or engineers who have been working on the various aircraft types for several years.

The training facilities are located in Dusseldorf, Amsterdam and Barcelona. Moreover, we offer you and your team training on-site at a location of your choice.

For course details please contact maintenancetraining@nayak.aero

Please enjoy and do not hesitate to contact us at any time.

With best regards

Your Nayak maintenance training team

Content

1 Type training

1.1 EASA CAT B1.1/B2 combined

Course Outline:	This course is in compliance with Commission Regulation (EU) No 1321/2014 Annex III (Part-66), Appendix III "Type Training and examination Standard" and is a mechanics/electrics course according to ATA 104 level III for mechanics and avionics systems.
	Theory: ✈ The participant will acquire knowledge necessary to perform and certify maintenance tasks permitted to be carried out as certifying staff category B1 and B2. It provides detailed description, operation, component location, removal/installation, bite and troubleshooting procedures to a maintenance manual level.
	Practical: ✈ The participant will acquire knowledge necessary to ensure safe performance of 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 troubleshooting, repairs, adjustments, replacements, rigging and functional checks if required. After the course they will be able to correctly use all technical literature and documentation for the aircraft and to correctly use specialist/special tooling and test equipment, perform removal and replacement of components and modules unique to type, including any on-wing maintenance activity.
Target Group:	✈ EASA Part-66 category B1 and/or B2 recommended or other experienced maintenance staff like technical personnel associated with line and base maintenance activities. ✈ Maintenance Certifying Technicians, who are holders of a basic license or equivalent and who seek type qualification on the aircraft.
Prerequisite:	***For full courses:*** ✈ Personnel must be well versed in turbine powered transport aircraft and digital electronic equipment and must have the knowledge and/or experience required for maintaining turbine powered transport aircraft. ✈ Preferably, the trainee is holder of a valid basic license of category B1 and/or B2 or equivalent. ✈ Student must be able to read, write and communicate at an understandable level in English language. ✈ Theoretical part must be completed before practical training.
	For engine difference courses only: ✈ Personnel must have accomplished the type training for initial engine before joining the differences course.

Examination:	***Theory:*** ✈ Phase examination 5 times, closed book, multiple-choice examination type with 3 answers. Pass mark per phase examination is 75%. ***Practical:*** ✈ Practical assessment in accordance with EASA examination standards
Aircraft / Engine:	***Full courses:*** ✈ Airbus A318/A319/A320/A321 (CFM56) ✈ Airbus A319/A320/A321 (IAE V2500) ✈ Airbus A330 (PW4000) ✈ Airbus A330 (Trent 700) ✈ Airbus A330 (GE CF6) ✈ Boeing B737-600/700/800/900 (CFM56)
	Engine difference courses: ✈ Airbus A320 CFM56 vs any engine ✈ Airbus A320 CFM LEAP-1A vs any engine (Practical only) ✈ Airbus A320 V2500 vs any engine ✈ Airbus A320 PW1100 vs any engine (Practical only) ✈ Airbus A330 PW4000 vs any engine ✈ Airbus A330 Trent 700 vs any engine ✈ Airbus A330 GE CF6 vs any engine ✈ Boeing B737 CFM LEAP-1B vs any engine (Practical only)
Group size	***Theory:*** ✈ Inhouse: max 18 Trainees (recommended class size is 16 Trainees) ✈ Online: max. 15 Trainees (recommended class size is 12 Trainees) ***Practical:*** ✈ max 6 Trainees (recommended class size is 4 Trainees)
Duration	***Theory:*** ✈ Airbus A320 Family 32 days ✈ Airbus A330 31 days ✈ Boeing 32 days ✈ Engine Differences 4 days (6 tuition hours per training day) ***Practical:*** ✈ All aircraft 10 days ✈ Engine Differences 1 day ✈ Engine Differences (LEAP) 3 days (7 tuition hours per training day)
Location	Dusseldorf or at customer premises

1.2 EASA CAT B1.1

Course Outline:	This course is in compliance with Commission Regulation (EU) No 1321/2014 Annex III (Part-66), Appendix III "Type Training and examination Standard" and is a mechanics/electrics course according to ATA 104 level III for mechanics systems and ATA 104 level I and/or II for avionics systems.
	Theory: ✈ The participant will acquire knowledge necessary to perform and certify maintenance tasks permitted to be carried out as certifying staff category B1. It provides detailed description, operation, component location, removal/installation, bite and troubleshooting procedures to a maintenance manual level.
	Practical: ✈ The participant will acquire knowledge necessary to ensure safe performance of 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 troubleshooting, repairs, adjustments, replacements, rigging and functional checks if required. After the course they will be able to correctly use all technical literature and documentation for the aircraft and to correctly use specialist/special tooling and test equipment, perform removal and replacement of components and modules unique to type, including any on-wing maintenance activity.
Target Group:	✈ EASA Part-66 category B1 recommended or other experienced maintenance staff like technical personnel associated with line and base maintenance activities. ✈ Maintenance Certifying Technicians – Mechanics, who are holders of a basic license or equivalent and who seek type qualification on the aircraft.
Prerequisite:	***For full courses:*** ✈ Personnel must be well versed in turbine powered transport aircraft and digital electronic equipment and must have the knowledge and/or experience required for maintaining turbine powered transport aircraft. ✈ Preferably, the trainee is holder of a valid basic license of category B1 or equivalent. ✈ Student must be able to read, write and communicate at an understandable level in English language. ✈ Theoretical part must be completed before practical training.
	For engine difference courses only: ✈ Personnel must have accomplished the type training for initial engine before joining the differences course.

Examination:	***Theory:*** ✈ Phase examination 4 times, closed book, multiple-choice examination type with 3 answers. Pass mark per phase examination is 75%. ***Practical:*** ✈ Practical assessment in accordance with EASA examination standards
Aircraft / Engine:	***Full courses:*** ✈ Airbus A318/A319/A320/A321 (CFM56) ✈ Airbus A319/A320/A321 (IAE V2500) ✈ Airbus A330 (PW4000) ✈ Airbus A330 (Trent 700) ✈ Airbus A330 (GE CF6) ✈ Boeing B737-600/700/800/900 (CFM56) ✈ Bombardier DHC-8-400 (Dash Q400) (PWC PW150)
	Engine differences courses: ✈ Airbus A320 CFM56 vs IAE V2500 ✈ Airbus A320 IAE V2500 vs CFM56 ✈ Airbus A330 PW4000 vs any engine ✈ Airbus A330 Trent 700 vs any engine ✈ Airbus A330 GE CF6 vs any engine
Group size	***Theory:*** ✈ Inhouse: max 18 Trainees (recommended class size is 16 Trainees) ✈ Online: max. 15 Trainees (recommended class size is 12 Trainees) ***Practical:*** ✈ max 6 Trainees (recommended class size is 4 Trainees)
Duration	***Theory:*** ✈ Airbus 28 days ✈ Boeing 29 days ✈ Bombardier 20 days ✈ Engine Differences 4 days (6 tuition hours per training day) ***Practical:*** ✈ All aircraft 10 days ✈ Engine Differences 1 day (7 tuition hours per training day)
Location	Dusseldorf or at customer premises

1.3 EASA CAT B2

Course Outline:	This course is in compliance with Commission Regulation (EU) No 1321/2014 Annex III (Part-66), Appendix III "Type Training and examination Standard" and is a mechanics/electrics course according to ATA 104 level III for avionics systems and ATA 104 level I and/or II for mechanics systems.
	Theory: ✈ The participant will acquire knowledge necessary to perform and certify maintenance tasks permitted to be carried out as certifying staff category B2. It provides detailed description, operation, component location, removal/installation, bite and troubleshooting procedures to a maintenance manual level.
	Practical: ✈ The participant will acquire knowledge necessary to ensure safe performance of 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 troubleshooting, repairs, adjustments, replacements, rigging and functional checks if required. After the course they will be able to correctly use all technical literature and documentation for the aircraft and to correctly use specialist/special tooling and test equipment, perform removal and replacement of components and modules unique to type, including any on-wing maintenance activity.
Target Group:	✈ EASA Part-66 category B2 recommended or other experienced maintenance staff like technical personnel associated with line and base maintenance activities. ✈ Maintenance Certifying Technicians, who are holders of a basic license or equivalent and who seek type qualification on the aircraft.
Prerequisite:	***For full courses:*** ✈ Personnel must be well versed in turbine powered transport aircraft and digital electronic equipment and must have the knowledge and/or experience required for maintaining turbine powered transport aircraft. ✈ Preferably, the trainee is holder of a valid basic license of category B1 or equivalent. ✈ Student must be able to read, write and communicate at an understandable level in English language. ✈ Theoretical part must be completed before practical training.
	For engine difference courses only: ✈ Personnel must have accomplished the type training for initial engine before joining the differences course.
Examination:	***Theory:*** ✈ Phase examination 4 times, closed book, multiple-choice examination type with 3 answers. Pass mark per phase examination is 75%. ***Practical:*** ✈ Practical assessment in accordance with EASA examination standards

Aircraft / Engine:	***Full courses:*** ✈ Airbus A318/A319/A320/A321 (CFM56) ✈ Airbus A319/A320/A321 (IAE V2500) ✈ Airbus A330 (PW4000) ✈ Airbus A330 (Trent 700) ✈ Airbus A330 (GE CF6) ✈ Boeing B737-600/700/800/900 (CFM56) ✈ Bombardier DHC-8-400 (Dash Q400) (PWC PW150) – practical only
Group size	***Theory:*** ✈ Inhouse: max 18 Trainees (recommended class size is 16 Trainees) ✈ Online: max. 15 Trainees (recommended class size is 12 Trainees) ***Practical:*** ✈ max 6 Trainees (recommended class size is 4 Trainees)
Duration	***Theory:*** ✈ Airbus 22 days ✈ Boeing 23 days ✈ Engine Differences 4 days (6 tuition hours per training day) ***Practical:*** ✈ All aircraft 10 days ✈ Engine Differences 1 day (7 tuition hours per training day)
Location	Dusseldorf or at customer premises

1.4 EASA CAT B2 vs. B1.1

Course Outline:	This course is in compliance with Commission Regulation (EU) No 1321/2014 Annex III (Part-66), Appendix III "Type Training and examination Standard" and is a mechanics/electrics course according to ATA 104 level III for avionics systems.
	Theory: ✈ The participant will acquire knowledge necessary to perform and certify maintenance tasks permitted to be carried out as certifying staff category B2. It provides detailed description, operation, component location, removal/installation, bite and troubleshooting procedures to a maintenance manual level.
	Practical: ✈ The participant will acquire knowledge necessary to ensure safe performance of 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 troubleshooting, repairs, adjustments, replacements, rigging and functional checks if required. After the course they will be able to correctly use all technical literature and documentation for the aircraft and to correctly use specialist/special tooling and test equipment, perform removal and replacement of components and modules unique to type, including any on-wing maintenance activity.
Target Group:	✈ EASA Part-66 category B1 recommended or other experienced maintenance staff like technical personnel associated with line and base maintenance activities. ✈ Maintenance Certifying Technicians, who are holders of a B2 basic license or equivalent and who seek type qualification on the aircraft.
Prerequisite:	***For full courses:*** ✈ Personnel should already hold a valid B1 license and have completed a corresponding B1 type training course. ✈ Personnel must be well versed in turbine powered transport aircraft and digital electronic equipment and must have the knowledge and/or experience required for maintaining turbine powered transport aircraft. ✈ Preferably, the trainee is holder of a valid basic license of category B2 or equivalent. ✈ Student must be able to read, write and communicate at an understandable level in English language. ✈ Theoretical part must be completed before practical training.
Examination:	***Theory:*** ✈ Phase examination 1 time, closed book, multiple-choice examination type with 3 answers. Pass mark per phase examination is 75%. ***Practical:*** ✈ Practical assessment in accordance with EASA examination standards

Aircraft / Engine:	***Full courses:*** ✈ Airbus A318/A319/A320/A321 (CFM56) ✈ Airbus A330 (PW4000) ✈ Boeing B737-600/700/800/900 (CFM56)
Group size	***Theory:*** ✈ Inhouse: max 18 Trainees (recommended class size is 16 Trainees) ✈ Online: max. 15 Trainees (recommended class size is 12 Trainees) ***Practical:*** ✈ max 6 Trainees (recommended class size is 4 Trainees)
Duration	***Theory:*** ✈ 7 days (6 tuition hours per training day) ***Practical:*** ✈ 2 days (7 tuition hours per training day)
Location	Dusseldorf or at customer premises

1.5 CAT A (ATA 104 level II)

Course Outline:	This course is a mechanics/electrics course according to ATA 104 level II for mechanics systems and ATA 104 level I and/or II for avionics systems.
	Theory: ✈ The participant will acquire knowledge necessary to perform and certify maintenance tasks permitted to be carried out as certifying staff category A. It provides a basic system overview of controls, indicators, principal components, including their location and purpose, servicing and minor troubleshooting.
	Practical: ✈ The participant will acquire knowledge necessary to ensure safe performance of 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 minor troubleshooting, repairs, replacements and operational checks if required. After the course they will be able to correctly use all technical literature and documentation for the aircraft and to correctly use specialist/special tooling, perform removal and replacement of components and modules unique to type.
Target Group:	✈ EASA Part-66 category A recommended or other experienced maintenance staff like technical personnel associated with line and base maintenance activities. ✈ Maintenance Certifying Mechanics, who are holders of a basic license or equivalent
Prerequisite:	***For full courses:*** ✈ Personnel must be well versed in turbine powered transport aircraft and digital electronic equipment and must have the knowledge and/or experience required for maintaining turbine powered transport aircraft. ✈ Preferably, the trainee is holder of a valid basic license of category B1 or equivalent. ✈ Student must be able to read, write and communicate at an understandable level in English language.
Examination:	***Theory:*** ✈ Final examination 1 time for Airbus courses and 2 times for Boeing courses, closed book, multiple-choice examination type with 3 answers. Pass mark per phase examination is 75%. ***Practical:*** ✈ none

Aircraft / Engine:	***Full courses:*** ✈ Airbus A318/A319/A320/A321 (CFM56) ✈ Airbus A319/320/321 (IAE V2500) ✈ Airbus A330 (PW4000) ✈ Boeing B737-600/700/800/900 (CFM56) ✈ Bombardier DHC-8-400 (Dash Q400) (PWC PW150)
Group size	***Theory:*** ✈ Inhouse: max 18 Trainees (recommended class size is 16 Trainees) ✈ Online: max. 15 Trainees (recommended class size is 12 Trainees) ***Practical:*** ✈ max 6 Trainees (recommended class size is 4 Trainees)
Duration	***Theory:*** ✈ All aircraft 10 days (6 tuition hours per training day) ***Practical:*** ✈ All aircraft 5 days (7 tuition hours per training day)
Location	Dusseldorf or at customer premises

1.6 EASA CAT C (General Familiarization on request)

Course Outline:	This course is in compliance with Commission Regulation (EU) No 1321/2014 Annex III (Part-66), Appendix III "Type Training and examination Standard" and is a mechanics/electrics course according to ATA 104 level I for mechanics and avionics systems. The participants will acquire knowledge necessary to perform and certify maintenance tasks permitted to be carried out as certifying staff category C. It provides a brief overview of the airframe, systems and power plant. This course consists of theoretical elements only. **Note:** A General Familiarization course can be offered on request. This option will cover the same content, however no examination will be held and therefore the certificate obtained will not suffice for a maintenance licence type endorsement.
Target Group:	✈ EASA Part-66 category C recommended or other experienced maintenance staff like technical personnel associated with base maintenance activities. ✈ Maintenance Certifying Engineers, who are holders of a basic license or equivalent and who seek type qualification on the aircraft.
Prerequisite:	***For full courses:*** ✈ Personnel must be well versed in turbine powered transport aircraft and digital electronic equipment and must have the knowledge and/or experience required for maintaining turbine powered transport aircraft. ✈ Preferably, the trainee is holder of a valid basic license of category C or equivalent. ✈ Student must be able to read, write and communicate at an understandable level in English language.
Examination:	***Theory:*** ✈ Final examination 1 time, closed book, multiple-choice examination type with 3 answers. Pass mark per phase examination is 75%.
Aircraft / Engine:	***Full courses:*** ✈ Airbus A318/A319/A320/A321 (CFM56) ✈ Airbus A319/A320/A321 (IAE V2500) ✈ Boeing B737-600/700/800/900 (CFM56) ✈ Bombardier DHC-8-400 (Dash Q400) (PWC PW150) – *Gen Fam only* ✈ Airbus A330 (PW4000) – *Gen Fam only* ✈ Airbus A330 (Trent 700) – *Gen Fam only* ✈ Airbus A330 (GE CF6) – *Gen Fam only*
Group size	***Theory:*** ✈ Inhouse: max 18 Trainees (recommended class size is 16 Trainees)
Duration	***Theory:*** ✈ All aircraft 5 days (6 tuition hours per training day)
Location	Dusseldorf or at customer premises

2 Basic Training

2.1 EASA B1.1 Module Examination (excluding M1, M2)

Course Outline:	In addition to our full examination, sit-in options are available for individual basic modules.
Target Group:	✈ Experienced maintenance staff like technical personnel associated with line and base maintenance activities
Prerequisite:	✈ Personnel should have gained first experiences in aircraft maintenance ✈ Preferably, the trainee is holder of a valid Cat A license ✈ Student must be able to read, write and communicate at an understandable level in English or German language.
Examination:	✈ All examinations are in compliance with EASA Part-66 Appendix II "Basic Examination Standard". Each basic training module has a pass mark of 75%. Examinations in modules 7A, 9A and 10 will consist of multiple choice and essay questions which have to be passed individually.
Group size	Self study option only
Duration	Self study option only
Location	Self study option only

2.2 EASA B2 Module Examination (excluding M1, M2)

Course Outline:	In addition to our full examination, sit-in options are available for individual basic modules.
Target Group:	✈ Experienced maintenance staff like technical personnel associated with line and base maintenance activities
Prerequisite:	✈ Personnel should have gained first experiences in aircraft maintenance ✈ Preferably, the trainee is holder of a valid Cat A license ✈ Student must be able to read, write and communicate at an understandable level in English or German language.
Examination:	✈ All examinations are in compliance with EASA Part-66 Appendix II "Basic Examination Standard". Each basic training module has a pass mark of 75%. Examinations in modules 7A, 9A and 10 will consist of multiple choice and essay questions which have to be passed individually.
Group size	Self study option only
Duration	Self study option only
Location	Self study option only

3 Specialized Training

3.1 Engine Run Up training

Course Outline:	The participant will acquire deep knowledge necessary to perform all kind of run up's for maintenance reasons. This course is aimed to achieve safe operation of the engine after repairs or replacements of the engine or major parts, identify and perform normal and abnormal start procedures, carry out power plant tests in accordance with the maintenance manual and a safe handling of emergency situations during a run up on ground.
Target Group:	✈ All technical personnel involved in aircraft maintenance
Prerequisite:	✈ Participants should have 6 month recent practical experience on this aircraft (or equivalent type) or engine run up certification on other aircraft type. ✈ In addition, they should have a basic active knowledge of theoretical ATA chapter (24, 26, 31, 70 – 80). ✈ Student must be able to read, write and communicate at an understandable level in English language.
Examination:	✈ Close book, multiple-choice examination type with 3 answers. Pass mark is 75% and/or practical assessment in simulator
Aircraft / Engine:	***Full courses:*** ✈ Airbus A318/A319/A320/A321 (CFM56) ✈ Airbus A319/A320/A321 (IAE V2500) ✈ Airbus A330 (PW4000) ✈ Airbus A330 (Trent 700) ✈ Airbus A330 (GE CF6) ✈ Boeing B737 (CFM56) ✈ Bombardier DHC-8-Q400 (PWC PW150)
Group size	✈ 2 trainees (an even number of participants is mandatory)
Duration	✈ Airbus 1 day (simulator training only) ✈ Boeing 1 day (simulator training only) ✈ Bombardier 1 day (simulator training only)
Location	Dusseldorf or at customer premises (provided that simulator access is available)

3.2 Structure Repair Manual

Course Outline:	The participant will acquire knowledge necessary to evaluate, report and certify structure damages to be carried out by certifying staff category B1. It provides the handling and description of the SRM and the damage reporting to the operator or manufacturer. During the course, the students will evaluate different types of structural damages at multiple locations with their own computers (e.g. lightning strike, dent on slat structure, dent on fuselage etc.). As further practical element the students will perform damage tracing on a structural mock up. Customization of the course according to operator forms and procedures is possible.
Target Group:	✈ EASA Part-66 category B1 recommended or other experienced maintenance staff like technical personnel associated with line and base maintenance activities. ✈ Shop personnel or any other maintenance staff involved in structure damage evaluation or structure repair processes.
Prerequisite:	✈ Student must be able to read, write and communicate at an understandable level in English language.
Examination:	none
Aircraft / Engine:	✈ Airbus ✈ Boeing ✈ Bombardier
Group size	✈ max 8 Trainees
Duration	✈ 2 days (7 tuition hours per training day)
Location	Dusseldorf or at customer premises

3.3 Airbus troubleshooting (specialized)

Course Outline:	The participant will acquire deep knowledge necessary to perform aircraft troubleshooting on Airbus aircraft in accordance with the troubleshooting manual. It provides the handling and description of the TSM. During the course, the students will evaluate different troubleshooting scenarios at our flat panel maintenance training device
Target Group:	✈ All technical personnel involved in aircraft maintenance
Prerequisite:	✈ EASA Part-66 category A, B1 and/or B2 recommended or other experienced maintenance staff like technical personnel associated with line and base maintenance activities. ✈ Student must be able to read, write and communicate at an understandable level in English language.
Examination:	none
Aircraft / Engine:	✈ Airbus aircraft
Group size	✈ max 4 Trainees
Duration	✈ 1 day (6 tuition hours per training day)
Location	Dusseldorf

Contact

For further information or customized training solutions please contact us:
maintenancetraining@nayak.aero

Sales contact:
maintenancetraining@nayak.aero

Dear Customer,

Without requiring a minimum number of participants, we guarantee the realization of all our courses. Cancellations that reach us two weeks prior to the start of the training won't be charged with any fees

Do not hesitate to contact us for any training needs you require.