
**Erickson Air-Crane Inc.
Manufactures Course Catalog**



2011





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CUSTOMER TRAINING STANDARDS, REQUIREMENTS, AND CERTIFICATES

GENERAL

A. Maintenance Training

While student experience is important, instruction received in the classroom and training lab performance cannot be over-emphasized. Training will be considered complete when the student has demonstrated the ability to perform to the course standards. In this respect, the standards adhered to by the instructor reflect the standards imposed for actual maintenance and operation of the S64 Helicopter.

B. Course Length

Standard course lengths are listed with the course description. Due to the varied training requirements of different Customers, course prerequisites, the course lengths and specific course content can be customized to meet the Customer's needs. Customized course lengths will vary based on a customer needs analysis.



*Typical training course using PowerPoint presentations and Aircraft Training Aids.



GRADUATION REQUIREMENTS

A. Academic

Student performance standards for written examinations will be 75% for passing.

B. Practical

1. General

Since the principal objective of training is to teach maintenance, service, inspection and repair of actual airworthy aircraft, each student will be judged on demonstrated skills and work habits, and not solely by an academic examination grade. Students will be graded as `SATISFACTORY' or `UNSATISFACTORY' in their shop work relative to the training academy standards.

2. Standards

a. Maintenance Training —

Students will not be judged on speed of performance, but rather on safety measures and approved maintenance procedures employed. All maintenance, repair and alterations must be accomplished with the use of such tools, equipment and test apparatus as necessary to ensure their completion in accordance with accepted industry practices. Where special equipment or a test apparatus is recommended by the manufacturer of the article involved, such equipment, apparatus or equivalent shall be utilized.

Techniques, procedures and practices set forth in approved maintenance and flight manuals for the performance of airworthiness maintenance inspection programs, will constitute acceptable techniques, procedures and practices.

b. Attendance-

Students are required to attend all training sessions to be considered for a certificate of completion. The Erickson Air-Crane Training Manager will consider any deviation to the above policy, on case by case basis.

CUSTOMER TRAINING CERTIFICATES

A. Certificate of Completion

Erickson Air-Crane Inc. will award a Certificate of Completion for the successful completion of any Maintenance course or Component Repair Course.

B. Certificate of Attendance

A Certificate of Attendance will be awarded for special courses that do not warrant a Certificate of Completion.

A Certificate of Attendance will also be given to students who fail to satisfy the requirements of any maintenance course.



TRAINING PAYMENT AND PRICING INFORMATION

A. Tuition

1. It is required that tuition be paid prior to issuance of Certificate.
2. **ONLY** those Customers who provide a Purchase Order/Credit Card Number prior to training and have a Current Open Account with Erickson Air-Crane may request to be billed for training. Billing arrangements must be made at time of enrollment request.
3. Purchase Order/Credit Card Number must be processed a minimum of 20 working days prior to the start of training.

Cost for training at the Erickson Air-Crane Training Academy in Central Point, Oregon is located on the pricing guide page. Each course listed in the catalog is priced in US dollars on a per course basis.

TRAINING AT ERICKSON AIR-CRANE

Catalog prices reflect the price associated with the tuition for the training course only. Please note that the Customer is to provide for the following: Round trip airfare, meals, lodging, car rental, medical, and daily subsistence for each of the students for the duration of the training session.

The Price for each Training Course is based on a "Per Course Rate". The Course Price is the same for one student up to the recommended maximum student load.

TRAINING AT CUSTOMER LOCATION

Erickson Air-Crane will conduct training at the customer's facility upon request, subject to instructor availability. Necessary classroom facility, training aids, S64 aircraft, spare parts and consumables (ground and flight training, tools, audio/visual equipment, etc.) must be provided by the Customer unless other arrangements are made. Additionally, the Customer is responsible for the costs associated with the shipping of tools and any material associated with off-site training. If the equipment provided is utilized in actual flight operations, the return of that equipment to flight status is the responsibility of the customer.

OFF-SITE TRAINING PRICING

Domestic and International customers will be charged the course catalog price, an additional instructors daily rate and all travel expenses. These costs will be established prior to the start of training and listed on the enrollment form.

NOTE: Domestic rates are limited to the continental U.S. and Canada. International rates apply to Alaska, Hawaii, and foreign countries.



S64E/S64F Familiarization **5 Days**

Class Size – up to 8 Students

This course covers the specifications and description of the helicopter systems, subsystems, and Powerplant at the block diagram level. This instruction will be presented in the classroom and on the aircraft as available using the description and operation section of the S64 helicopter maintenance manual.

Upon successful completion, the student will have a general knowledge of the Airframe, Powerplant, maintenance manuals, special safety precautions, tooling, test equipment, and maintenance practices unique to the S64 helicopter.

S64E/S64F Type Training **30 Days**

Class Size – up to 4 Students

Objective:

Upon successful completion of this course, the student will have a working knowledge of the S64 Airframe, Powerplant, Maintenance Manuals, Mission Equipment, Track and Balance, Component removal and replacement, Rigging, Troubleshooting and Maintenance practices required for maintaining the S64 helicopter. A Certificate of Completion will be awarded only after demonstrating competence through written tests and hands on demonstration of knowledge

Recommended For:

This training is recommended for Supervisory and Line maintenance personnel, to include Crew Chiefs and Flight Engineers.

Course Content:

This course covers the in-depth description of the helicopter systems, subsystems and Powerplant. The instruction will be presented in the classroom and on the training aircraft. This course is only offered at the EAC training facility due to the extensive component removal and replacement required.

Prerequisites:

It is highly recommended that the student should meet the following experience requirements.

1. Certified aircraft mechanic with one-year practical experience.
2. One year of experience as an active mechanic on helicopters.



Hydraulic System

S64E / S64F

5 Days

Class Size – up to 8 Students

A comprehensive overview of the description, function, and maintenance procedures required for line maintenance of the S64 helicopter hydraulic systems. Classroom or shop work in the following areas will be provided: Hydraulic Manifolds, Filters, Valves, Main Rotor Head Primary Servos, Tail Rotor Head Servo, Power System, Engine Start Module, Wheel Brakes, Hoist System, Shock and Pendant, Rotor Brake, Jack and Kneel system (E model Only). Upon successful completion, the student will be able to troubleshoot, inspect, and perform or supervise the maintenance of the hydraulic systems of the S64 aircraft.

Engines/Fuel Control

S64E/ S64F

5 Days

Class Size – up to 8 Students

A comprehensive overview of the description, function, and maintenance procedures required for line maintenance of the S64 helicopter Powerplant system and system interfaces. Classroom or shop work in the following areas will be provided: Powerplant System interfaces, Fuel Control Unit, Cockpit Controls, N2 trim system, N1 control system, Bias Gun rigging, adjustment, and preservation.

Rotor System (MRH/TRH)

S64E / S64F

3 Days

Class Size – up to 8 Students

A comprehensive overview of the description, function, and maintenance procedures required for line maintenance of the S64 helicopter rotor system. Classroom or shop work in the following areas will be provided: Rotor Blade inspection, removal and installation procedures, Rotor Head servicing, inspection, removal and installation procedures, Swashplate servicing, inspection, removal and installation procedures, and a general description of Rotor blade track and balance procedures.



Drive Train S64

3 Days

Class Size – up to 8 Students

A comprehensive overview of the description, function, and maintenance procedures required for line maintenance of the S64 helicopter drive train system. Classroom or shop work in the following areas will be provided: Main Gear Box, Tail Gear Box, and Intermediate Gear Box, inspection removal and installation procedures. Driveshaft servicing, inspection, removal and installation procedures

Flight Controls/Rigging

3 Days

Class Size – up to 8 Students

A comprehensive overview of the description, function, and maintenance procedures required for line maintenance of the S64 helicopter flight controls system. Classroom or shop work in the following areas will be provided: Flight Control components, Rigging check procedures and tolerances, Cyclic Balance spring adjustment, Control Travel checks procedures, Blade angle and range setup procedures, Tail Rotor control cable removal and replacement.

Fuel System

3 Days

Class Size – up to 8 Students

A comprehensive overview of the description, function, and maintenance procedures required for line maintenance of the S64 helicopter airframe fuel system. Classroom or shop work in the following areas will be provided: Airframe Fuel system, Main and Auxiliary tank assemblies and system components.

Upon successful completion, the student will be able to troubleshoot, inspect, and perform or supervise the maintenance of the airframe fuel system of the S64 aircraft.

Auxiliary Power Plant

2 Days

Class Size – up to 8 Students

A comprehensive overview of the description, function, and maintenance procedures required for line maintenance of the S64 helicopter auxiliary power unit (APU) system. Classroom or shop work in the following areas will be provided: Auxiliary Power Unit (APU) system, auxiliary power unit (APU) assembly and system components.

Upon successful completion, the student will be able to troubleshoot, inspect, and perform or supervise the maintenance of the auxiliary power unit (APU) system of the S64 aircraft.



AFCS/Electrical

5 Days

Class Size – up to 8 Students

The course will provide the students with an introduction to the AFCS system including system description/purposes, and system block diagram analysis. Component level description, location, theory of operation, and maintenance of all AFCS inputs/ sensors and processing will aid the student in understanding system interface. Procedures for AFCS Operational Test using the proper tools and Technical Manuals will be covered in detail in the classroom and performed on test bench mock up.

Electrical Systems

5 Days

Class Size – up to 8 Students

A comprehensive study of the S64 helicopter electrical system, including a detailed analysis of each circuit in the following categories: DC Power Distribution, Powertrain Systems, Airframe Systems, Utility Systems, AC Power Distribution, and Instrument Indicating Systems. The type, function, location of components and access provisions, component description and operation of these circuits will be presented to enable the student to perform the inspection, servicing, use of special tools, materials, manuals, and equipment to perform unit (line) level maintenance of the system. Recommended troubleshooting procedures will be discussed utilizing known and probable fault systems in the classroom and shop to prepare the student for actual work on the helicopter.

Environmental Control Systems 1 Day

Class Size – up to 8 Students

A comprehensive overview of the description, function, and maintenance procedures required for line maintenance of the S64 helicopter environmental systems. Classroom or shop work in the following areas will be provided: Environmental systems, Heating/Cooling systems, and Ice and Rain Removal system.

Fire Tank

3 Days

Class Size – up to 8 Students

This course will cover the description and function of the Erickson Air-Crane Fire Retardant System; it will include hands on troubleshooting using the tank software for simulated operation. Classroom and shop work in following area will be provided; Fire tank structures, mounting and installation, Aircraft-fire tank interface, hydraulic and electrical systems, troubleshooting and normal operation.



Rotor Track and Balance **2 Days** **Class Size – up to 8 Students**

This course will cover the description and function of the Rotor Analysis and Diagnostic System, with theory of use to include installation, setup and operation. The classroom session will include simulated readings and diagnostic procedures.

At the completion of this course the student will have an understanding of the capabilities of the RADS unit, an understanding of all the components and their uses, and basic diagnostic abilities.

S64 Inspections **2 Days** **Class Size – up to 8 Students**

A comprehensive overview of the inspection procedures required for the S64 helicopter. Classroom or shop work in the following areas will be provided: Inspection of Logbook Records, Maintenance Manual Inspection criteria, Daily Inspection, Phase Maintenance Inspection and Special Inspections section of the Maintenance Manual.

NDT/ UT/ FPI **2 Days** **Class Size – up to 8 Students**

This course is aircraft and application specific. It will cover the procedures for complying with the applicable Manufactures Service Bulletins. The classroom session will cover the theory on proper FPI and UT procedures required for performing the Service Bulletins and Airworthiness Directives. The practical session will include performing FPI on a known defect and UT inspection using the required test equipment.

Mission Equipment **2 Days** **Class Size – up to 8 Students**

This course will cover the mission equipment that can be installed on the S64 aircraft. Classroom training will include a description of the winch and logging shock installation, testing and troubleshooting. This course will also cover the cockpit controls and hydraulic systems related to the mission equipment.



2011 Pricing Guide			
Course	Course Length	Hours	Course Price
Manufactures Systems Training			
S64 Familiarization	5 Days	40 Hours	\$8500.00
Hydraulic Systems	5 Days	40 Hours	\$8500.00
Engine/Fuel Control	5 Days	40 Hours	\$8500.00
Rotor System (Main and Tail Rotor)	3 Days	24 Hours	\$5100.00
Drive Train	3 Days	24 Hours	\$5100.00
Flight Controls/Rigging	3 Days	24 Hours	\$5100.00
Fuel Systems	3 Days	24 Hours	\$5100.00
Auxiliary Power Plant	2 Days	16 Hours	\$3400.00
AFCS /Electrical	5 Days	40 Hours	\$8500.00
Electrical Systems AC/DC	5 Days	40 Hours	\$8500.00
Environmental Control System	1 Day	8 Hours	\$1700.00
EAC Fire Tank	3 Days	24 Hours	\$5100.00
Rotor Track and Balance	2 Days	16 Hours	\$3400.00
S64 Inspections	2 Days	16 Hours	\$3400.00
Non Destructive Testing	2 Days	16 Hours	\$3400.00
S64 Mission Equipment	2 Days	16 Hours	\$3400.00
Course	Course Length	Hours	Course Price
Manufacture Type Training			
S64E Type Training	6 Weeks	240 Hours	\$51,000.00
S64F Type Training	6 Weeks	240 Hours	\$51,000.00

- The Price for each Training Course is based on a “Per Course Rate”. The Course Price is the same for one student up to the recommended maximum student load.

Additional Off-Site Pricing	
At customer location International:	At customer location Domestic:
\$1,800. USD per instructor day (8 hours)	\$1,800. USD per instructor day (8 hours)
Two days travel @ \$2,400. USD	One day travel @ \$1,200. USD
Round trip airfare business class	Round trip airfare coach class
Car Rental, Hotel & Per diem	Car Rental, Hotel & Per diem

- Saturday and or Sunday layover will be charged at \$600 USD per day.