

Training and Education Manual *(rating name)*.

1.0 Scope

Participants of the course are trained to be able to perform the following task:
(rating name and description)

2.0 Requirements for participation.

To allow a candidate to participate in the training as *(rating name)*, he/she needs to fulfil the following requirements:

(primary participation requirements for the appropriate rating)

Being able and willing to take responsibility.

A constructive approach towards safety in sport parachuting.

Nominated and signed up by a *(authorised person)*.

Legal of age.

Member of a *(name)* organisation.

Candidates are responsible for making all of the necessary arrangements for their training. If a candidate has not the appropriate rating(s) to perform the necessary training work or parts thereof the following rule applies: the candidate *(rating name)* has the allowance to do the mandatory work under supervision and responsibility of a *(authorised person)*.

3.0 Content of the training.

The training to obtain a *(name)* rating has the following points of attention:

Theoretical skills.

Practical skills.

Applying of theoretical and practical skills.

4.0 Theoretical skills.

		Contact time	Self study
4.1	Rules and Regulations	<i>(amm)</i> hours	hours
4.2	Tools and Machines	<i>(amm)</i> hours	hours
4.3	Fabrics and hardware	<i>(amm)</i> hours	hours
4.4	General knowledge	<i>(amm)</i> hours	hours

The minimum total contact time for the theoretical skills of *(rating name)* will be *(amm)* hours.

5.0 Practical skills.

(Contact time for practical skills theory of the described modules to obtain the rating name)

6.0 Applying of theoretical and practical skills.

(the time to fulfil the necessary requirements as described in modules, necessary to obtain the rating name, periods of apprenticeship)

Thoroughly keeping a maintenance logbook up to date as described in the rules.

Recording the work carried out onto the packing cards of the equipment as described in the rules.

7.0 Course volume.

The study load depends to a great extent on prior knowledge and skills of the candidate. The training will be finished with a theoretical and a practical examination.

Contact time has to be *(amm)* day parts of 4 hours each, to be divided as:

Theoretical skills	<i>(amm)</i> hours
Practical skills	<i>(amm)</i> hours
Applying of theoretical and practical skills	<i>(amm)</i> hours
Theoretical examination	<i>(amm)</i> hours
Practical examination	<i>(amm)</i> hours

The total study load for *(rating name)* will be *(amm)* hours + ± *(amm)* hours self study.

8.0 Theoretical education.

Knowing the appropriate rules, the ability to interpret and apply them and if in doubt or in case of omissions the ability to act in the spirit of these rules.

To be able to read and interpret the manuals, the directions for use, technical and safety bulletin's belonging to the parachute equipment.

8.01 Common theoretical knowledge.

(required for the appropriate rating, sources)

8.02 Rules and regulations.

(required for the appropriate rating, sources)

8.03 Tools and machines.

(required for the appropriate rating, sources)

8.04 Fabrics and hardware.

(required for the appropriate rating, sources)

8.05 General knowledge.

(required for the appropriate rating, sources)

Examples for above:

Common theoretical knowledge.

knowledge of law and other appropriate rules.

manuals, application prescriptions and directions for use belonging to equipment involved, the way sport parachute, emergency equipment and parts thereof are designed, constructed and tested, design, construction and working of all instruments involved in parachuting, design, construction and working of all machines and tools, used to manufacture, to maintain, to modify and to repair sport parachute and emergency equipment, factors having influence on the right functioning of sport parachute and emergency equipment in common, reserve parachutes, instruments and automatic actuation devices.

Rules and Regulations Sources: TSO C23b, C23c (Cat A, B, C), C23d, C23E (?) FAA Part 65, 149, 91.

Tools and sewing machines, sources PM Chapter 3,PIA convention, Manuals industrial sewing machines, FAA part 149. Be able to use and handle tools, machines and testers in the right manner.

Fabrics and hardware, sources: PM chapters 4, 5, and 6 regarding equipment still in use, Para Gear, manufacturer information, Mil Specs, chemical background and properties of hardware and fabrics.

Parachutes in common, aerodynamic properties, used materials and construction, porosity and strength, packing of main and reserve parachutes, opening and opening delaying systems in common, maintenance, control and storage, the relationship of parts towards the rest of the equipment.

Harnesses and containers, aerodynamic properties, used materials and construction, strength, packing of main and reserve parachutes, maintenance, control and storage, the relationship of parts towards the rest of the equipment.

Instruments. Hereby we talk about altimeters, altitude signalling systems and automatic actuation devices (AAD's) accuracy, readability and illumination, tolerances and calibration placing and functioning as equipment part, parts of the instrument, external influences, manuals.

Maintenance, repair and modification, sources: PM chapters 3, 7 and 9, safety and technical bulletins, manuals.

Design and construction, sources: PM chapters 6 and 8, manuals, Para Gear.

Airworthiness and packing, source PM chapter 9, manuals.

General knowledge of parachuting and skydiving. Properties of the atmosphere, the standard atmosphere, knowledge of airflow, basic knowledge of aerodynamics, knowledge of forces, aerodynamical properties of the human body in freefall. The opening of and openings forces onto parachutes and components thereof. Common technical knowledge gained out of books and magazines.

Practical skills. Thorough knowledge and skills in the use of machines and tools, used to repair, to maintain and to pack sport parachute and emergency equipment. Thorough knowledge and expertise in determining the airworthiness of sport parachute and emergency equipment as described in the rules as well as packing of all types of parachutes, main, reserves and emergency according the rules and regulations of the manufacturer. Thorough knowledge of and expertise in: Patching different parts of parachutes. Line repair or replacement. Container repair or replacement. Harness or harness parts repair or replacement. Assembling parachute equipment. Modifying parachute equipment. Planning the repair of parachute equipment. Annual inspections regarding airworthiness. Be able to determine the condition, shape and/or aberrations of parachute equipment. To inspect, maintain and repair light, middle and heavy-duty sewing machines. Maintenance of common AAD's like adjusting and the mandatory testing according the rules and regulations of the manufacturer to assure the right functioning.

9.0 Final terms.

At the end of the training, the candidate has the right attitude, thoroughly knowledge, understanding and skilfulness to:

9.01 Planning.

The ability to make the preparations necessary to perform the prescribed work on *(work description rating)* in the used composition.

9.02 Workmanship.

The ability to perform independently activities to maintain *(description of rating work)* as described in 1. Scope.

The ability to perform these activities using the right materials, tools machines and testing devices in the prescribed manner

9.03 Safety.

The ability to overlook the safety ness of the equipment involved in the used composition.

Appendix: modules setup appropriate rating.