TRAINING REQUIREMENTS IN AN AEROMEDICAL ENVIRONMENT
Aeromedical Service Models

Differentiate between the various aviation health care services available

Specific training needs:

- Rescue
- Air Ambulance
- Inter Facility Transfer
- Outreach Flying Doctor Service
Aeromedical Training

• AVIATION
• TECHNICAL
• MEDICAL

COMMUNITY OUTREACH PROGRAM IN ASSOCIATION WITH THE DEPARTMENT OF HEALTH
Aviation Training

- Helicopters
- Fixed Wing
Aviation Training

Pilots

• Type rating conversions
• Flight and proficiency checks
• Recurrency training
• Introduction to operating in an aeromedical environment - regulatory
Technical Training

Maintenance engineers & support staff

• License currency
• Regulatory recurrency training
• Technical updates
• Type rating conversion
• Time on type
• Yearly competencies - towing, ground runs, emergencies, special tools, safety practices
Medical Training

Purpose:

To provide aeromedical training to prepare health care providers with the necessary skills, knowledge and understanding to safely & effectively manage patients in an aeromedical environment.
Medical Training

- Regulatory
- Safety Orientation
- Equipment
- Continued training:
  - ACLS, APLS, ATLS, ITLS
- Rescue training: hoist operation, mountain and water rescue

- Aeromedical specific AHCP ALS/ILS
Aeromedical Specific AHCP ALS/ILS

- ALS 80 hours
- ILS 40 hours
Minimum Requirements ALS

• Current registration with the relevant professional body as a **Paramedic or Medical Practitioner or Nurse** with ICU, trauma or emergency care experience, or relevant emergency care short course training

• In addition

• a minimum of 6 months full time post qualification clinical experience **or**

• 1000 hours clinical experience in a recognised service as a registered practitioner
Minimum Requirements ILS

- Current registration with the relevant professional body as an Intermediate Life Support Practitioner
- In addition
- A minimum of 6 months full time post qualification clinical experience or
- 1000 hours clinical experience in a recognised service as a registered practitioner
Aeromedical Specific Subjects AHCP

• Introduction of the medical crew to operate in the aviation environment
• Introduction to international Aviation Laws & Regulatory bodies
• Concept of Safety first - risk control
• Aerodynamics
• Related disciplines and their interaction with aviation
Aeromedical Specific Subjects AHCP

• Specific patient management strategies according to different pathologies

• Hypoxia
• Gas Laws
• Barotrauma
• Stresses of flight
Aeromedical Specific Subjects AHCP

- Sedation & analgesia
- Advanced airway management
- Ventilation strategies
- Wilderness & environment medicine
- Patient packaging
- In flight care
Aeromedical Specific Subjects AHCP

- Documentation
- Medico-legal considerations
- Precise complete documentation which can be referred to years later if requested
- “If it’s not written down, you didn’t do it”
Aeromedical Specific Subjects AHCP

• Human factors Medical Team CRM
• Operating in a “Just Culture” environment
Pilot Development Programme

• Upgrading previously disadvantaged people
QUALITY ASSURANCE

All aspects of aeromedicine training are monitored by Quality Assurance

• Focused on adherence to F O M’s, S O P ‘s, SMS
• Focused on clinical review of patient management
• Regulatory requirements
• Part 141
• Part 127
• Part 135
• Part 145
• Part 138