



Clinical Skills Development Service

# Advanced Life Support

Recertification

**CSDS**

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**Metro North  
Health**



**Queensland  
Government**

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Clinical Skills Development Service and Metro North Health acknowledges the Traditional Custodians of the Land upon which we live, work and walk, and pay our respects to Elders both past and present.

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**CSDS respectfully acknowledges the Traditional Owners of this land, the Turrbal and Yugara peoples. We recognise that we live, work, and walk on their ancestral lands, and we pay our respects to Elders past, present, and emerging. CSDS and Metro North Health's dedication and values are committed to the health equity of Aboriginal and Torres Strait Islander peoples.**



A grayscale photograph of a hospital room. In the foreground, a woman in dark scrubs is seen from the back, looking towards the left. In the center, a group of medical staff in scrubs are gathered around a patient lying on a gurney. One staff member is operating a medical monitor. To the right, another staff member in scrubs and glasses is looking down at a clipboard. The room has white walls, a ceiling with square tiles, and a digital clock on the wall showing '14:35'. A door is visible in the background on the right.

# Welcome!

## Learning Objective

This course aims to provide competency-based assessment of the knowledge and skills required in providing adult ALS utilising the ANZCOR guidelines.

## Learning Outcomes

At the conclusion of this course the participant will be able to:

- demonstrate **airway management** utilising appropriate manoeuvres and airway adjuncts
- demonstrate the ability to follow the ANZCOR **BLS** mnemonic
- demonstrate the ability to perform **manual defibrillation**
- demonstrate the ability to follow the ANZCOR **ALS algorithm**
- demonstrate effective **team leadership**

## Timetable and Assessment

- Summative assessment
  - Airway management
  - Basic Life Support
  - Manual defibrillation
  - Team leadership

Be aware that today we will be involved in **physical activities**. Please take the time to let your facilitators know if you have any **pre-existing conditions or injuries** that may affect your participation today.

Time	Session
08:00	Introductions, Learning Objectives, Housekeeping
08:15	Skill Station 1: Airway Management
08:35	Skill Station 2: Basic Life Support
08:55	Skill Station 3: Manual Defibrillation
09:25	Demonstration
09:35	Skills Station 4: ALS Algorithm and Team Leader
10:30	Morning Tea
10:45	Introduction to Simulated Environment, Manikin and Pre-Brief
10:55	Immersive Scenario 1 and Debrief
11:25	Immersive Scenario 2 and Debrief
11:55	Conclusion and Evaluation
12:00	Re-assessment (if required)

## Basic Life Support

**D**

**Dangers?**

**R**

**Responsive?**

**S**

**Send for help**

**A**

**Open Airway**

**B**

**Normal Breathing?**

**C**

**Start CPR**

30 compressions : 2 breaths

**D**

**Attach Defibrillator (AED)**

as soon as available, follow prompts

**Continue CPR until responsiveness or  
normal breathing return**

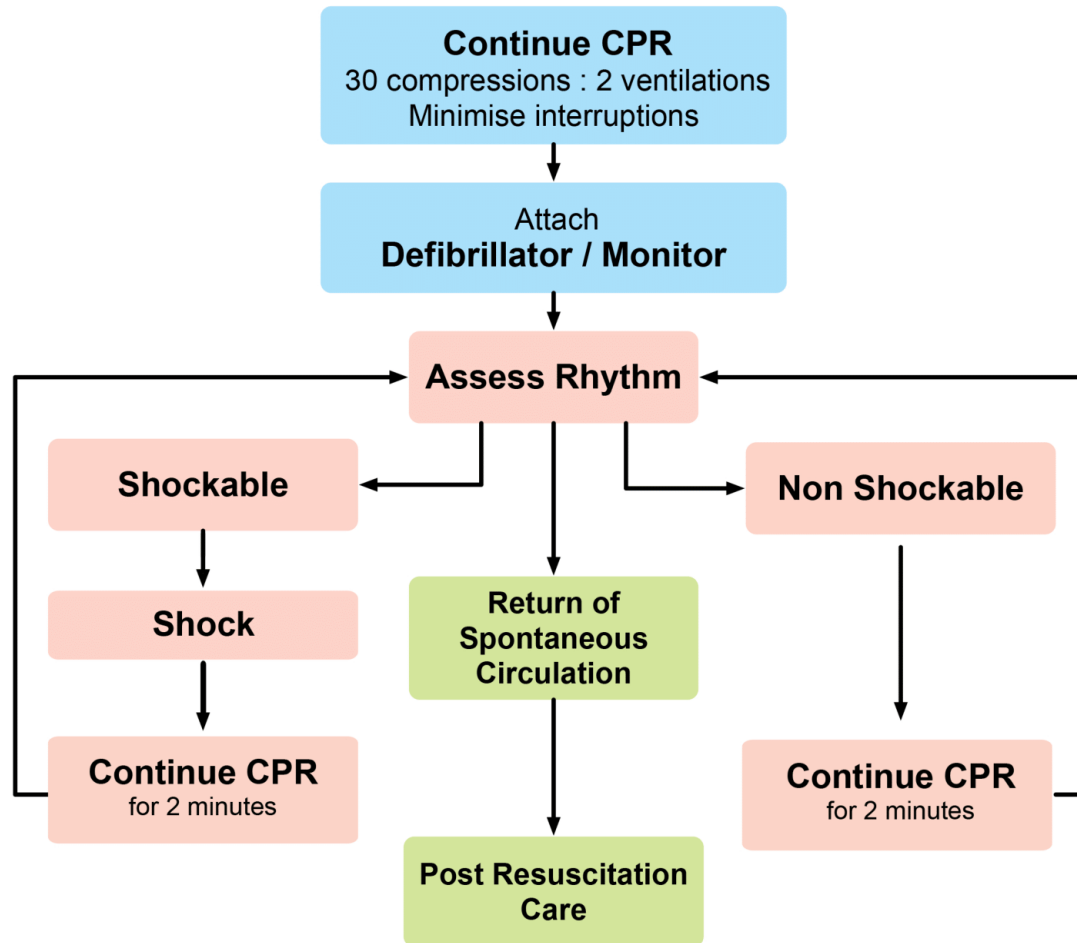


Reviewed August 2023



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# Adult Advanced Life Support



## During CPR

Airway adjuncts (SGA or ETT)  
Oxygen  
Waveform capnography  
IO or IV access  
Plan actions before interrupting CPR  
(e.g. charge defibrillator)

## Drugs

### Shockable

- Adrenaline 1 mg after 2nd shock  
(then every 2nd cycle)
- Amiodarone 300mg after 3 shocks

### Non Shockable

- Adrenaline 1mg immediately  
(then every 2nd cycle)

## Consider and correct

Hypoxia  
Hypovolaemia  
High or low electrolytes (K, Ca, Mg) & metabolic disorders  
Hypothermia or hyperthermia  
Tension pneumothorax  
Tamponade  
Toxins  
Thrombosis (pulmonary or coronary)

## Post Resuscitation Care

Re-evaluate ABCDE  
12 lead ECG plus CXR  
Treat precipitating cause  
Aim for SpO2 94-98%, normocapnia, normoglycaemia  
Temperature control



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# Thank you!

Your feedback is appreciated.

