

## THE INITIAL TEST OF COMPETENCY: SYLLABUS

The principles of the Initial Test of Competency can be found in Section 2.1 of this manual.

This test is in 5 parts:

- a) Preoperative assessment.
- b) General anaesthesia for ASA I or II patients (including equipment and anaesthetic machine checks).
  - 1. General anaesthesia with spontaneous respiration
  - 2. General anaesthesia with endotracheal intubation
- c) Rapid sequence induction and failed intubation routine.
- d) Cardio pulmonary resuscitation (CPR) skills.
- e) Clinical judgement, attitudes and behaviour.

If a trainee has successfully completed an ALS course within the last 12 months (d) can be omitted.

Only after this test has been satisfactorily completed can a trainee progress beyond direct supervision.

Each of the 5 parts of the test (a – e, above) can be assessed by one (or more) trainers, but not all 5 parts can be “signed off” by the same single trainer. At least two trainers must be involved in the overall assessment.

What follows is the syllabus for each of the five parts together with the assessment sheets for each part.

Training Number: .....

Surname: .....

Forename: .....

## INITIAL ASSESSMENT OF COMPETENCY SYLLABUS:

### a) Pre-operative assessment of patients

#### Clinical skills

1. Is able to demonstrate satisfactory communication with staff and patients
2. Is able, in a manner appropriate to the patient, to take a relevant history, explain the necessary aspects of anaesthesia, and answer their questions
3. Is able to assess the airway
4. Is able to recognise potential problems requiring senior help
5. Is able to explain the management of post-operative pain and symptom control in a manner appropriate to the patient
6. Is able to interpret basic investigations (FBC, U & Es, chest x ray, ECG)
7. Is able to choose and prescribe appropriate pre-medication

#### Knowledge

1. The ASA scale of fitness
2. The relevance of common inter-current diseases to anaesthesia and surgery
3. Consent for anaesthesia
4. Predictors of difficult intubation

#### Setting

**Patients:** All appropriate patients aged 16 and over.

#### Assessments

- A ward based demonstration of practical skills.
- Simultaneous oral confirmation of understanding.

#### Guidance

This is a preliminary test to ensure that the trainee communicates adequately and understands the broad outline of anaesthetic assessment. After three months of training the trainee should be expected to identify patients who are low risk from the anaesthetist's point of view. There is no expectation of the trainee being able to determine the fitness for operation of patients who are severely ill or who have inter-current disease. The expectation is that they will know which cases to refer to or discuss with senior colleagues. The trainee should have an understanding of whatever premedication he or she intends to use.

Training Number: .....

Surname: .....

Forename: .....

**INITIAL ASSESSMENT OF COMPETENCY:**

**a) Pre-operative assessment of patients**

The trainee must be accompanied on a pre-operative round of patients.

**The Trainee:**

	Yes	No
Communicates in a satisfactory manner with patients	<input type="checkbox"/>	<input type="checkbox"/>
Obtains relevant history	<input type="checkbox"/>	<input type="checkbox"/>
Undertakes any physical examination (if indicated)	<input type="checkbox"/>	<input type="checkbox"/>
Assesses the airway	<input type="checkbox"/>	<input type="checkbox"/>
Understands the pre-operative investigations	<input type="checkbox"/>	<input type="checkbox"/>
Explains anaesthesia clearly	<input type="checkbox"/>	<input type="checkbox"/>
Discusses pain and explains post operative analgesia clearly	<input type="checkbox"/>	<input type="checkbox"/>
Prescribes pre-operative medication as needed	<input type="checkbox"/>	<input type="checkbox"/>
Understands the ASA classification	<input type="checkbox"/>	<input type="checkbox"/>
Understands consent for anaesthesia and operation	<input type="checkbox"/>	<input type="checkbox"/>

	Yes	No
<b>This assessment was completed satisfactorily</b>	<input type="checkbox"/>	<input type="checkbox"/>

IF NO, GIVE REASONS:

Signed ..... Print name..... (Trainer) Date .....

Signed: ..... Print name ..... (Trainee) Date.....

Training Number: .....

Surname: .....

Forename: .....

## INITIAL ASSESSMENT OF COMPETENCY SYLLABUS:

### b) Administration of a safe general anaesthetic to an ASA I or II patient

#### Clinical skills

1. Explanation of the anaesthetic procedure(s) and surgery to the patient
2. Appropriate choice of anaesthetic technique
3. Pre-use equipment checks
4. Proper placement of I.V. cannula
5. Attachment of monitoring (including ECG) before induction of anaesthesia
6. Measures blood pressure non-invasively
7. Pre-oxygenation
8. Satisfactory induction technique
9. Appropriate management of the airway
10. Maintenance of anaesthesia, including analgesia
11. Appropriate perioperative monitoring and its interpretation
12. Recognition and immediate management of any adverse events which might occur
13. Proper measures during emergence from general anaesthesia, including extubation.
14. Satisfactory hand over to recovery staff
15. Accurate completion of anaesthetic and other records
16. Prescription of appropriate post-operative analgesia and anti-emetics
17. Choice of post operative oxygen therapy
18. Instructions for continued I.V. therapies (if relevant)

#### Knowledge

1. The effects of anaesthetic induction on cardiac and respiratory function
2. The rationale for pre-oxygenation
3. Methods available for the detection of misplaced ET tubes, including capnography
4. Common causes of arterial desaturation (cyanosis) occurring during induction, maintenance and recovery
5. Common causes and management of intra-operative hypertension and hypotension
6. The immediate management only of cyanosis, apnoea, inability to ventilate, aspiration, bronchospasm, anaphylaxis and malignant hyperpyrexia
7. Trainees must demonstrate an adequate, basic, practical knowledge of anaesthetic pharmacology to support their practice, for example, know about: 2 induction agents, 2 volatile agents, 2 opioids, suxamethonium and 1 competitive relaxant

#### Setting

**Patients:** ASA I and II patients age 16 years and over requiring uncomplicated surgery in the supine position e.g. hernia, varicose veins, hysterectomy, arthroscopy.

**Location:** Operating theatre.

**Situations:** Supervised theatre practice.

#### Assessments:

- A theatre based demonstration of practical skills.
- Simultaneous oral case discussion of understanding.

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Surname: .....

Forename: .....

**Guidance:**

The trainee should be observed undertaking a number of cases using facemask and airway, and/or laryngeal mask and/or endotracheal tube. Care should be taken to ensure that the trainee is skilled in use of bag and mask and does not always rely on the laryngeal mask. Whilst ensuring patient safety the assessor should let the trainee proceed largely without interference and note problems of technique. This should be combined with a question and answer session covering the underlying comprehension of the trainee. The level of knowledge expected is that of a trainee who has been working in anaesthesia for 3 months and should be sufficient to support the specified clinical skills. Exclusions are specialised surgery, rapid sequence induction (see Section c) and children under the age of 16 years.

Training Number: .....

Surname: .....

Forename: .....

**INITIAL ASSESSMENT OF COMPETENCY:**

b) Ability to administer a general anaesthetic competently to an elective ASA I or II patient

**Part 1 General anaesthesia with spontaneous respiration**

**The Trainee:**

	Yes	No
Properly prepares the anaesthetic room and operating theatre	<input type="checkbox"/>	<input type="checkbox"/>
Satisfactorily conducts a pre-operative equipment check (including the anaesthetic machine and breathing system)	<input type="checkbox"/>	<input type="checkbox"/>
Has properly prepared and assessed the patient for surgery	<input type="checkbox"/>	<input type="checkbox"/>
Chooses an appropriate anaesthetic technique	<input type="checkbox"/>	<input type="checkbox"/>
Establishes IV access	<input type="checkbox"/>	<input type="checkbox"/>
Establishes ECG and pulse oximetry in the anaesthetic room	<input type="checkbox"/>	<input type="checkbox"/>
Measures the patients blood pressure prior to induction	<input type="checkbox"/>	<input type="checkbox"/>
Pre-oxygenates as necessary	<input type="checkbox"/>	<input type="checkbox"/>
Induces anaesthesia satisfactorily	<input type="checkbox"/>	<input type="checkbox"/>
Manages airway competently	<input type="checkbox"/>	<input type="checkbox"/>
I) Face mask (+/-) airway	<input type="checkbox"/>	<input type="checkbox"/>
II) LMA	<input type="checkbox"/>	<input type="checkbox"/>
Makes satisfactory transfer to operating theatre	<input type="checkbox"/>	<input type="checkbox"/>
Positions patient safely	<input type="checkbox"/>	<input type="checkbox"/>
Maintains and monitors anaesthesia satisfactorily	<input type="checkbox"/>	<input type="checkbox"/>
Conducts emergence and recovery safely	<input type="checkbox"/>	<input type="checkbox"/>
Keeps an appropriate and legible anaesthetic record	<input type="checkbox"/>	<input type="checkbox"/>
Prescribes analgesia appropriately	<input type="checkbox"/>	<input type="checkbox"/>
Properly supervises discharge of patient from recovery	<input type="checkbox"/>	<input type="checkbox"/>
Understands the need for oxygen therapy	<input type="checkbox"/>	<input type="checkbox"/>
	YES	NO
<b>This assessment was completed satisfactorily</b>	<input type="checkbox"/>	<input type="checkbox"/>

IF NO, GIVE REASONS:

Signed: ..... Print name: ..... (Trainer) Date: .....

Training Number: .....

Surname: .....

Forename: .....



## INITIAL ASSESSMENT OF COMPETENCY SYLLABUS:

### c) Rapid Sequence Induction for an ASA I or II patient and failed intubation routine

#### Clinical skills

1. Detection of risk factors relating to slow gastric emptying, regurgitation and aspiration
2. Use of drugs (antacids, H<sub>2</sub> receptor antagonists etc) in the management of the patient at risk of aspiration
3. Explanation of pre-oxygenation to the patient
4. Proper explanation of rapid sequence induction (RSI) to patient.
5. Proper demonstration of cricoid pressure to the patient and assistant.
6. Demonstration of the use of:
  - a) tipping trolley
  - b) suction
  - c) oxygen flush
7. Appropriate choice of induction and relaxant drugs.
8. Attachment of ECG, pulse oximeter and measurement of BP before induction.
9. Pre-oxygenation.
10. Satisfactory rapid sequence induction technique.
11. Demonstration of proper measures to minimise aspiration risk during emergence from anaesthesia.
12. Failed intubation drill, emergency airway management (this may be manikin based).

#### Knowledge

1. Risk factors causing regurgitation and aspiration.
2. Factors influencing gastric emptying, especially trauma and opioids.
3. Fasting periods in relation to urgency of surgery
4. Reduction of the risks of regurgitation.
5. Failed intubation drill, emergency airway management
6. The emergency treatment of aspiration of gastric contents
7. Basic pharmacology of suxamethonium and repeated doses.

#### Setting

**Patients:** Starved ASA I and II patients aged 16 and over having uncomplicated elective or urgent surgery with normal upper airway anatomy.

**Location:** Operating theatre.

**Situations:** Supervised theatre practice.

#### Assessments

- A test of failed intubation drill (this may be manikin based)
- A theatre based demonstration of practical skills.
- Simultaneous oral test of understanding.

Training Number: .....

Surname: .....

Forename: .....

## Guidance

This test should ensure competent management of the airway during straightforward urgent surgery. The test must be done on a patient who is adequately starved prior to induction of anaesthesia. The patient may, or may not be, an urgent case. The trainee should be able to discuss methods of prediction of the difficult airway and of difficult intubation. They should be able to explain and if possible demonstrate on a manikin the failed intubation drill, and the immediate management of the patient who aspirates gastric contents.

Training Number: .....

Surname: .....

Forename: .....

**INITIAL ASSESSMENT OF COMPETENCY:**

**c) Rapid Sequence Induction (RSI) and failed intubation routine**

**The Trainee has satisfactorily demonstrated:**

	Yes	No
Preparation of the anaesthetic room and operating theatre	<input type="checkbox"/>	<input type="checkbox"/>
Satisfactorily checking of the anaesthetic machine, sucker etc.	<input type="checkbox"/>	<input type="checkbox"/>
Preparation of the patient (information and positioning)	<input type="checkbox"/>	<input type="checkbox"/>
An understanding of the mandatory periods for pre-operative fasting	<input type="checkbox"/>	<input type="checkbox"/>
An understanding of the indications for RSI	<input type="checkbox"/>	<input type="checkbox"/>
An adequate explanation of RSI to the patient, including cricoid pressure	<input type="checkbox"/>	<input type="checkbox"/>
To the assistant how to apply cricoid pressure	<input type="checkbox"/>	<input type="checkbox"/>
Proper pre-oxygenation of the patient	<input type="checkbox"/>	<input type="checkbox"/>
The undertaking of a RSI	<input type="checkbox"/>	<input type="checkbox"/>
Recognition of correct placement of tracheal tube	<input type="checkbox"/>	<input type="checkbox"/>
Knowledge of failed intubation drill	<input type="checkbox"/>	<input type="checkbox"/>
Practical application of failed intubation drill (this may be manikin based)	<input type="checkbox"/>	<input type="checkbox"/>
Proper extubation when the stomach may not be empty	<input type="checkbox"/>	<input type="checkbox"/>

	Yes	No
<b>This assessment was completed satisfactorily</b>	<input type="checkbox"/>	<input type="checkbox"/>

IF NO, GIVE REASONS:

Signed: ..... Print name: ..... (Trainer) Date: .....

Signed: ..... Print name: ..... (Trainee) Date: .....

Training Number: .....

Surname: .....

Forename: .....

## INITIAL ASSESSMENT OF COMPETENCY SYLLABUS:

### d) Cardio-pulmonary resuscitation (CPR)

#### Clinical skills

1. Able to recognise cardiac and respiratory arrest
2. Able to perform cardiac compression
3. Able to manage the airway during cardiopulmonary resuscitation (CPR): using expired air breathing, bag and mask, laryngeal mask and endotracheal intubation
4. Able to perform CPR either single-handed or as a member of a team
5. Able to use the defibrillator
6. Able to interpret arrhythmias causing and associated with cardiac arrest
7. To perform resuscitation sequences for ventricular tachycardia, VF, asystole, EMD
8. Able to move a patient into the recovery position

#### Knowledge

1. Resuscitation guidelines of Resuscitation Council (UK)
2. The factors relating to brain injury at cardiac arrest
3. Factors influencing the effectiveness of cardiac compression
4. Drugs used during CPR (adrenaline (epinephrine), atropine, lignocaine, calcium, magnesium, sodium bicarbonate)
5. The ethics of CPR: who might benefit
6. Record keeping at CPR

#### Setting

Simulated scenario of collapse requiring cardio-pulmonary resuscitation during a practical teaching session.

**Role:** Initiate and maintain CPR when necessary. Undertake the role of team leader if no more senior doctor is present, continuing CPR as appropriate, administering necessary drugs and defibrillating if needed. If a more experienced resuscitator is available will adopt an appropriate role in the resuscitation team.

**Locations:** Wherever necessary.

#### Assessments

- Manikin based practical assessment of CPR skills
- Arrhythmia recognition session using monitor
- Oral assessment of knowledge of resuscitation

If a trainee has completed an ALS course within the last 12 months, the assessment of CPR competency can be assumed and signed off with a comment made to that effect under the signature(s).

Training Number: .....

Surname: .....

Forename: .....

**INITIAL ASSESSMENT OF COMPETENCY:**

**d) Cardiopulmonary Resuscitation**

This assessment may be undertaken at any time and may be combined with a practical teaching session.<sup>1</sup>

**The Trainee:**

	Yes	No
Ensures personal safety and that of the staff	<input type="checkbox"/>	<input type="checkbox"/>
Calls for help	<input type="checkbox"/>	<input type="checkbox"/>
Demonstrates the diagnostic method	<input type="checkbox"/>	<input type="checkbox"/>
Demonstrates mask to mouth rescue breathing.	<input type="checkbox"/>	<input type="checkbox"/>
Demonstrates ventilation with mask and bag	<input type="checkbox"/>	<input type="checkbox"/>
Demonstrates satisfactory insertion of and ventilation with ET tube	<input type="checkbox"/>	<input type="checkbox"/>
Demonstrates satisfactory cardiac compression.	<input type="checkbox"/>	<input type="checkbox"/>
Satisfactorily interprets common arrhythmias on ECG monitor.	<input type="checkbox"/>	<input type="checkbox"/>
Understands the indications for defibrillation.	<input type="checkbox"/>	<input type="checkbox"/>
Demonstrates correct use of defibrillator	<input type="checkbox"/>	<input type="checkbox"/>
Understands the use of appropriate drugs during resuscitation	<input type="checkbox"/>	<input type="checkbox"/>
Can undertake the lead role in directing CPR.	<input type="checkbox"/>	<input type="checkbox"/>
Demonstrates moving a patient into the recovery position	<input type="checkbox"/>	<input type="checkbox"/>
	Yes	No
<b>This assessment was completed satisfactorily</b>	<input type="checkbox"/>	<input type="checkbox"/>

IF NO, GIVE REASONS
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Signed: ..... Print name: ..... (Trainer) Date: .....

Signed: ..... Print name: ..... (Trainee) Date: .....

<sup>1</sup> If a trainee has completed an ALS course within the last 12 months, the assessment of CPR competency can be assumed and signed with a comment made to that effect under the signature(s).

Training Number: .....

Surname: .....

Forename: .....

**INITIAL ASSESSMENT OF COMPETENCY SYLLABUS:**

**e) Clinical judgement, attitudes and behaviour**

A guide to assessing satisfactory attitudes and behaviour is given in *The CCT in Anaesthesia I: Gneral Principles* Appendix 4. At this early stage in a trainee's career all that is required is confirmation of the statement on the assessment sheet overleaf.

Training Number: .....

Surname: .....

Forename: .....

**INITIAL ASSESSMENT OF COMPETENCY:**

**e) Clinical judgement, attitudes and behaviour**

To the best of my knowledge and belief this trainee has:

1. Shown care and respect for patients.
2. Demonstrated a willingness to learn.
3. Asked for help appropriately.
4. Appeared reliable and trustworthy.

Signed.....Print name.....Date.....

Appointment .....

Signed.....Print name.....Date.....

Appointment .....

Training Number: .....

Surname: .....

Forename: .....