

# Tracheostomy Competencies Framework



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## 1. Introduction

This document is a set of core competencies that cover both adult and paediatric caseloads and reflects guiding principles in tracheostomy care for safe and best practice.

All of the core competencies and skills will need to be tailored to your specific job description, client group and setting. Skills that are not required for your setting or client group do not need to be met as agreed with your supervisor and documented accordingly.

The core competencies have not been repeated in each of the additional specialist sections so please use them in conjunction with the specialist sections that apply to you. Ideally the core competencies are achieved before progression to specialist areas.

You will need a tracheostomy mentor to guide you through this competency process. Depending on your resources, this may be someone outside of your existing team. You may need to use local networks to identify a suitable person. The tracheostomy mentor **must be** another speech and language therapist (SLT) working with patients with tracheostomies. Other members of the MDT can support competency development and add valuable understanding of MDT working.

Across the document the term one-way valve has been used in place of speaking valve, this is to cover the broader purpose of the valves and to reflect the changes in evidence.

## Pre-requisite core skills

Independent in the management of dysphagia and communication in patients within the same setting and patient group as the patients with tracheostomies.



## **RCSLT Tracheostomy Training Log**

Name of trainee:	Name o	of supervisor:		
Job title trainee:	Job titl	e supervisor:		
Core tracheostomy competencies:				
Date core tracheostomy competencie	es commenced			
Date core tracheostomy competencie	es completed			
Signed supervisee:	Signe	d supervisor: .		
Additional tracheostomy compete	ncies (circle as appro	opriate):		
Critical care/ventilator dependency	Head and neck	Burns	Community	and/or
long-term				
Date competencies commenced				
Date competencies completed				
Signed supervisee:	Signed	d supervisor:		



## 2. Core tracheostomy skills

## Theoretical tracheostomy knowledge

It is important that training SLTs have a good knowledge of the relevant evidence-based practice and reference the literature to evidence their acquisition of theoretical knowledge.

Please refer to section 8 of this document, References/reading list.

Examples of methods of theoretical knowledge acquisition:

- Reading relevant journals/books/literature
- Websites (eg NCEPOD, NTSP and relevant NICE guidance for speciality)
- Discussions with experienced MDT colleagues
- Observing colleagues in MDT
- Attendance at tracheostomy courses and simulation training
- Tutorials with a tracheostomy mentor
- Reading local protocols
- Case scenarios
- Visits to other hospitals
- External supervision
- Invite trainers to your department
- Attending MDT meetings, trache ward rounds etc
- Reflective log
- Attending RCSLT Trache CEN training days/watching webinars



Theore	etical knowledge required	Evidence of achievement	Date and Supervisor's signature
Trache	eostomy insertion		
1.	Reasons for insertion of tracheostomy tube		
2.	Different methods for tracheostomy insertion		
3.	Risks and benefits of insertion		
Complications and impact			
4.	Complications of tracheostomy (short- and long-term)		
5.	Impact of previous airway management (eg intubation history, airway reconstruction) on tracheostomy weaning/decannulation		



6.	Impact of tracheostomy on autonomy, identity, relationships, activities of daily living, and quality of life	
Safety		
7.	Awareness of routine tracheostomy care procedures (eg tape and dressing changes, sutures, stoma integrity, tube changes, inner cannula cleaning, humidification)	
	Knowledge of tracheostomy red flags and how to respond appropriately (eg airway, breathing, tracheostomy specific) //www.tracheostomy.org.uk/storage/files/R flags.pdf	
9.	Knowledge of emergency equipment (eg blue box) and its use	



10. Knowledge of the National Tracheostomy Safety Project (NTSP) tracheostomy emergency algorithm <a href="https://www.tracheostomy.org.uk/healthcare-staff/emergency-care/emergency-algorithm-tracheostomy">https://www.tracheostomy.org.uk/healthcare-staff/emergency-care/emergency-algorithm-tracheostomy</a>	
11. Knowledge of local tracheostomy policies and national guidelines	
12. Knowledge of local infection prevention and control policy pertaining to tracheostomies	
Tracheostomy tubes and equipment	
13. Recognises the different parts of the tube and understands their function	
14. Knowledge of a range of different tube types, their function, rationale for use and contraindications	



15. Knowledge of tracheostomy equipment, its function and use (eg HME filter, oneway valves, suction equipment)	
SLT and MDT roles	
16. Understands the importance of including the patient and their family/carers in MDT decision making and tracheostomy care	
17. Knowledge of the role of SLT in tracheostomy weaning and management in a specific setting	
18. Understands the impact of voicelessness on individuals with a tracheostomy (eg on ability to indicate care needs, demonstrate capacity, participate in decisions, obtain information on what has happened, seek reassurance, make social connections with family/staff, impact on work/education)	



19. Knowledge of the roles and importance of collaboration with other MDT members	
Anatomical and physiological changes	
20. Knowledge of the anatomical and physiological changes when a tracheostomy is in situ and in patients with an unhealed stoma post decannulation	
21. Knowledge of the anatomical and physiological differences between a tracheostomy and a laryngectomy	
22. Knowledge of the physiological impact associated with different types of tubes/cuff status/one-way valves	



Timing of assessment	
23. Understands the indications and contraindications for proceeding with SLT assessment/intervention	
24. Knowledge of the importance of assessment of oral hygiene, oromotor function and secretion management irrespective of cuff status	
Laryngeal assessment and rehabilitation	
25. Understands the benefits and techniques/challenges of early restoration of laryngeal airflow	
26. Knowledge of the appropriacy for cuff deflation with consideration of timing, secretion management and impact on respiratory function	



27. Understands the benefits and impact of one-way valves on laryngeal function, voice, swallowing, respiratory function, cough and secretion management	
28. Knowledge of indications and contraindications for use of a one-way valve (eg airway patency, cuff status)	
29. When needed, is able to identify appropriate augmentative and alternative communication options, and train patients and staff to use them effectively	
30. Understands the signs of laryngeal dysfunction/upper airway obstruction and indications for laryngoscopy/Fibreoptic Endoscopic Evaluation of Swallowing (FEES)/referral to ENT	
31. Understands the impact of laryngeal findings on tracheostomy weaning and potential for decannulation	



32. Understands the indications and contraindications of above cuff vocalisation (ACV)	
33. Understands the importance of proactive secretion management on tracheostomy weaning (eg pharmacological management, restoration of laryngeal airflow)	
34. Understands risk/benefits/side effects of interventions to manage saliva (eg pharmacological agents, swallowing therapies and impact on pulmonary secretions)	
Swallowing assessment	
35. Understands the similarities and differences between swallowing assessments for patients with and without a tracheostomy	



36. Understands the limitations of an assessment of oral trials with an inflated cuff	
37. Understands the application and limitations of screening tools (eg blue dye) for detection of aspiration	
38. Understands the appropriate clinical contexts for feeding with an inflated cuff (eg found to be safe with instrumental assessment/QOL/patient choice/end of life)	
39. Knowledge of benefits of instrumental swallowing assessment (FEES, Videofluoroscopy (VFS)) to support feeding decisions (eg with cuff inflated or deflated)	
40. Able to consider oral and tracheal suction requirements as part of a swallowing assessment	



41. Understands the factors contributing to the swallowing impairment in patients with a tracheostomy	
Weaning	
42. Knowledge of the weaning process and decannulation including indications/ contraindications	
43. Knowledge of the impact of medical/surgical management and patient co-morbidities on the weaning process	
44. Knowledge of the different options to facilitate the weaning process (eg size/type of tracheostomy tube, one-way valves and capping)	



45. Knowledge of existing protocols in the literature/local practice and an understanding of the need for an individualised approach to weaning



## Core practical tracheostomy skills

Examples of methods for practical skill acquisition:

- Practice on models (eg Trache Tom)
- Observe on ward rounds/community clinic/outpatients
- Carry out with patients
- Case-based problem solving
- Simulation training

Note: There is no assumption made about the numbers of patients you have to see to achieve these competencies; this should be decided with your tracheostomy mentor in accordance with your needs, job requirements and clinical setting.

Skills required	Evidence of achievement	Date and Supervisor's signature
Information gathering		
Identifies reason for tracheostomy insertion, method of insertion and any related complications from case history		



2.	Recognises potential risk of airway complications following intubation and tracheostomy from case history and MDT discussion	
3.	Able to gain information regarding secretion status from relevant sources	
Safety	and equipment	
4.	Able to locate and identify patient's emergency and routine equipment and bedhead signs (as appropriate to setting); initiate replacement/updates information where appropriate	
5.	Identifies tracheostomy red flags and responds appropriately (eg partially blocked/displaced tube)	
6.	Identify type, size and cuff status of tracheostomy	
7.	Able to use relevant equipment (eg cuff pressure manometer, pulse oximeter, as appropriate to setting)	



8. Able to identify, troubleshoot and address problems with basic tracheostomy care (eg condition of tracheostomy stoma, sutures, large stoma leaks, signs of infection)	
<ol> <li>Able to carry out and monitor subglottic suction and troubleshoot issues</li> </ol>	
10. Able to remove, clean and reinsert inner tube according to local policy	
11. Recognises signs of overinflated or underinflated tracheostomy cuff and addresses as appropriate	
12. Recognises clinical signs of upper airway patency issues	
13. Ensures staff/carers/patient are aware of potential safety issues in one-way valve use and responds appropriately to unsafe practice	



14. Ensures staff/carers/patient are aware of safety issues in ACV use and responds appropriately to unsafe practice	
Cuff deflation, one-way valve, laryngeal assessment and weaning	
15. Able to deflate and re-inflate cuff and ensure that cuff pressure is checked	
16. Able to carry out basic clinical assessment of upper airway, recognise potential airway patency issues, and assess suitability for one-way valve trial	
17. Able to use ACV safely and appropriately	
18. Able to place one-way valve and remove safely	



19. Able to assess patients' ability to use one-way valve and impact on voice, swallowing, laryngeal function and respiration and troubleshoot any difficulties	
20. Able to contribute SLT findings to MDT tracheostomy management, tube selection, weaning and/or decannulation plans	
21. Able to tailor tracheostomy advice to individual patient's medical/surgical plans and/or other relevant management plans	
22. Able recognise signs of readiness for decannulation	
Swallowing assessment and management	
23. Able to carry out a swallowing assessment with a patient with a tracheostomy in situ and develop a management plan	



24. Provide tailored swallowing therapy to individuals with a tracheostomy and	
evaluate progress	
Communication with others	
25. Educates MDT, individual and family members about the impact of tracheostomy on communication, voice and swallowing	
26. Able to guide and train the MDT, individual and family on therapeutic and management strategies for laryngeal rehabilitation, communication and swallowing (eg one-way valve, ACV)	



## 3. Critical care and/or ventilator dependency tracheostomy competencies

Please refer to ICS AHP Professional Development Framework, SLT Pillar, RCSLT Critical Care position paper, RCSLT FEES position paper for additional guidance and competencies.

Theor	etical knowledge required	Evidence of Achievement	Date and Sign
1.	Knowledge of the types and causes of respiratory failure		
2.	Knowledge of respiratory support and interventions (eg O2, high-flow O2, cough assist, Extracorporeal Membrane Oxygenation (ECMO) etc.)		
3.	Knowledge of the different types and modes of ventilation, their benefits and potential complications		



4.	Knowledge of ventilatory versus tracheostomy weaning and the interplay between these	
5.	Knowledge of the physiological impact on ventilation of placing a one-valve in line with a ventilator (eg PEEP/subglottic pressure restoration)	
6.	Knowledge of what values change on a ventilator with a one-way valve in line and and what adjustments to make compensate for these changes (eg consideration for reducing PEEP)	
7.	Knowledge of the ventilation and respiratory parameters which indicate airway patency or patency concerns on assessment of upper airway airflow and one-way valve	
8.	Knowledge of laryngeal rehabilitation options and relative benefits in individuals using mechanical ventilation (eg one-way valve, ACV, leak speech)	
9.	Awareness of appropriate timing of intervention, impact of the environment and the individual's primary medical/surgical condition/treatment	



10.	Awareness of the impact of mechanical ventilation on secretion management and swallowing in the presence of a deflated cuff (with/without a oneway valve in situ)		
11.	Knowledge of the impact of cuffless tracheostomy tubes on laryngeal assessment (eg paediatric, long-term ventilation)		
Skills I	Required	Evidence of Achievement	Date and Sign
1.	Identifies the ventilatory mode and key parameters of ventilation from the ventilator screen		
2.	Demonstrates ability to place a one-way valve in- line with ventilator circuit, using the appropriate steps and equipment		
3.	Demonstrates ability to implement leak speech and/or ventilator assisted leak speech when appropriate		



# 4. Head and neck tracheostomy competencies

Theor	etical knowledge required	Evidence of achievement	Date and sign
1.	Understands the anatomical and functional changes between tracheostomy and laryngectomy (permanent stoma) patients		
2.	Understands disease process and predicted trajectory and its impact on tracheostomy management and potential to wean		
3.	Understands treatment intention (i.e. curative versus palliative) and its impact on tracheostomy management and potential to wean.		
4.	Knowledge of the appropriate use of tracheostomy tubes in complex laryngectomy/pharyngolaryngectomy in acute management during the healing process		



Skills Required	Evidence of Achievement	Date and Sign
Facilitates communication for patients with laryngectomies with a tracheostomy tube in situ		



# 5. Burns tracheostomy competencies

Theor	etical Knowledge required	Evidence of achievement	Date and sign
1.	Knowledge of the risks of laryngeal injury from inhalation or ingestion burns and any impact on intubation duration or difficulty, tracheostomy weaning, voice and swallowing		
2.	Knowledge of the effects of extent and type of burn injury on intubation and tracheostomy/ventilation requirements and swallowing		
3.	Knowledge of the effect of neck burns and grafting on tracheostomy management (eg method of insertion, type of tube, stoma healing)		
4.	Knowledge of dysphagia risks and patterns of recovery in burns patients (eg prolonged nasogastric feeding, increased nutritional requirements, oral phase issues due to facial burns, psychological trauma)		



5.	Knowledge of the effects on communication and swallowing of disruptions to tracheostomy weaning and need for re-intubation due to theatre interventions (eg for debridements, grafting, dressing changes)		
Skills ı	required	Evidence of Achievement	Date and Sign
1.	Demonstrates ability to take a tracheostomy case history paying attention to cause and extent of burn, facial and neck involvement, inhalation or ingestion injury, intubation tracheostomy and ventilation status and issues		
2.	Demonstrates ability to adapt swallowing and communication assessment to accommodate facial and neck dressings, burn wounds, scars and pain		
3.	Recognises laryngeal trauma due to inhalation injury or intubation trauma on bedside swallowing and communication assessment, and refers for FEES and ENT appropriately		



## 6. Community and/or long-term tracheostomy competencies

These competencies only refer to community/long-term knowledge with regard to tracheostomy management and do not encompass the range of competencies required for working with a whole community/long-term caseload.

Theore	etical knowledge required	Evidence of achievement	Date and sign
1.	Knowledge of the role of the extended MDT, availability of staff/resources in local area and interface with acute and community services in ongoing tracheostomy management for routine follow-up/surveillance and assessment		
2.	Knowledge of the local support available to patients in their own homes, nursing homes, rehabilitation centres and children's centres/schools		
3.	Knowledge of the potential impact of long-term tracheostomy on the lived experience of the patient and their loved ones (eg body image, personal relationships)		



4.	Knowledge of the impact of being in a community setting on tracheostomy management and approach to weaning, goal setting and use of equipment (eg pacing/risk assessment in weaning, ability to access FEES)		
5.	Knowledge of how living with a long-term tracheostomy impacts access to health, education, social, leisure resources and how this may change with patient need over time		
Skills	required	Evidence of achievement	Date and sign
Skills 1	Recognises inconsistencies in equipment use or tracheostomy care and alerts relevant professional with any concerns	Evidence of achievement	Date and sign



3. Recognises potential for change (both deterioration and improvement) in patients with long-term tracheostomy and how this links to the goals/care aims in relation to tracheostomy	
<ol> <li>Works with the MDT, including tertiary referrals where required, to facilitate weaning (eg ENT, respiratory physician) or to adapt weaning goals t reflect overall disease/condition change (eg palliative care) where appropriate</li> </ol>	



## 7. Paediatric tracheostomy competencies

These competencies aim to include neonates, children and young people. Given this wide-ranging age group and varied aetiologies, they should be used in conjunction with the core tracheostomy competencies and relevant sub-sections (eg critical care and community) and adapted to the work setting worked.

Theor	etical knowledge required	Evidence of achievement	Date and sign
1.	Knowledge of the impact of developing anatomy and physiology in neonate/infant/child/adolescent		
2.	Knowledge of common causes/aetiologies for neonatal and paediatric tracheostomy and ENT/Head and Neck management (eg airway stenosis and reconstruction)		
3.	Knowledge of neonatal, paediatric and adult/2-piece tracheostomy tube including cuff status		
4.	Knowledge of the implications of changing airway pathology and impact on feeding and communication		



		<u> </u>	
5.	Knowledge of the complications associated with long- term tracheostomy eg suprastomal collapse, granulation tissue		
6.	Knowledge of current literature on the impact of long-term tracheostomy on receptive & expressive language and speech sound development		
7.	Knowledge of current literature on the impact of long-term tracheostomy +/- long- term hospitalisation on child development, play, interaction, neuro/socio-linguistic development etc		
8.	Knowledge of potential impact of tracheostomy, hospitalisation +/- aetiology on developing feeding skills (eg aversion/sensory defensive behaviours/experiential).		
9.	Knowledge of range of AAC/communication options and their indications/contraindications eg leak voice, one-way valve, pseudo voice, electrolarynx, signing etc		
10.	Knowledge of when one-way valve valves can be considered in patients who are ventilated and nonventilated.		



11. Awareness of impact of age, tube size/type, aversion/sensory and airway pathology on one-way valve assessment and tolerance.	
12. Knowledge of appropriacy and impact of both upsizing and/or downsizing a tracheostomy tube, in conjunction with MDT. (ie impact on leak)	
13. Knowledge of different types, modes and settings of ventilation, benefits and complications	
Knowledge of impact of tracheostomy and ventilatory assistance on swallowing physiology in the developing child.	
15. Awareness of both child and parent/family potential behavioural response to having a tracheostomy and associated equipment	
16. Knowledge of the impact of tracheostomy on activities of daily living, relationships, access to health, education, social, leisure resources and need for EHCP. Impact of this change/need over time.	



Recognises potential for change in terms of child development and medical management in patients with long-term tracheostomy and appropriacy of timing of review		
Skills required	Evidence of achievement	Date and sign
20. Knowledge of tracheostomy weaning and/or staged ward decannulation process/local protocol		
19. Knowledge of health and safety implications of working with children with a tracheostomy in the community eg lone working, emergency procedures		
18. Knowledge of local tracheostomy support services available to children/families in their own homes, rehabilitation centres, respite care and children's centres/schools		
17. Knowledge of the role of extended MDT in community tracheostomy management eg educational staff		



2.	Able to identify risk factors for buccal speech and management.	
3.	Able to support relevant training to child, family and/or staff that is specific to SLT (eg one-way valve use in school setting)	
4.	Recognises the need of MDT working in tracheostomy management and liaises with colleagues appropriately	

## 8. References/reading list

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The Royal College of Speech and Language Therapists (RCSLT) is the professional body for speech and language therapists in the UK. As well as providing leadership and setting professional standards, the RCSLT facilitates and promotes research into the field of speech and language therapy, promotes better education and training of speech and language therapists, and provides its members and the public with information about speech and language therapy.

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