

# Infection Prevention and Control Curriculum for Core Infection and Higher Infection Trainees

This is not an exhaustive list but includes areas that should be covered during the course of training in microbiology. Opportunity to be involved in these areas of infection control will arise throughout the training period.

Each trainee should keep records (e-portfolio) of their experience by listing meetings attended, keeping episode summaries and writing reflective notes following incidents. Competence in many areas can be demonstrated through workplace-based assessments (CBD, DOP, ECE).

The listed "methods of learning" and "evidence of learning" are examples for guidance.

The basic understanding acquired during CIT (theoretical knowledge) should be developed during Higher Specialty training through active involvement in IPC, progressing from "working with supervision" to "performing with minimum supervision". The most senior trainees (post Part-2 FRCPath) should consider a period as acting Infection Control Doctor. Trainees are expected to demonstrate that they have gained practical experience, not just didactic learning.

Trainees should be able to demonstrate that they have read and understood the current guidance documents and major guidelines and are able to apply them to practice.

Clinical and Educational Supervisors should act as IPC mentors, or identify another individual who can act in this capacity. Attendance at meetings and shadowing of Infection Prevention and Control Nurses (IPCN)/ Infection Control Doctors (ICD) should be pro-actively scheduled in advance by contacting the appropriate members of the Infection Control and Prevention Team (IPCT).

Clinical and Educational Supervisors have a responsibility to release trainees from clinical duty in order to allow them to be involved in responding to incidents or outbreaks. Training Programme Directors should support this approach.

Healthcare Infection Society Curriculum Working Group June 2018 Updated January 2020

- 1. General Principles and skills
- 2. Outbreak investigation and control
- 3. Surveillance
- 4. Commonly encountered Healthcare Associated Infection (HCAI) and specific organisms:
  - (a) HA-MRSA & CA-MRSA and MSSA
  - (b) Clostridium difficile
  - (c) Glycopeptide resistant enterococci
  - (d) Multi resistant Gram negatives (Acinetobacter, Pseudomonas, CPE)
  - (e) HA- and CA- Tuberculosis
  - (f) Viral infections
  - (g) Other infections
- 5. Device-related infection
- 6. Environmental infection control:
  - (a) Legionella
  - (b) Other water issues:
  - (c) Theatres and Ventilation
- 7. Decontamination of medical devices, equipment and the environment
- 8. Endoscopy service
- 9. Laundry service
- 10. Hospital Catering & food hygiene
- 11. Estates and facilities
- 12. The role of the laboratory
- 13. Epidemiology and surveillance
- 14. Communication between healthcare providers
- 15. Occupational Health Issues (OH)
- 16. Service evaluation/ research/audit in IPC
- 17. Leadership skills

#### 1. General Principles and skills

- Standard IPC Precaution.
- Hand Hygiene.
- PPE (from non-sterile gloves through to PPE for high-risk infections).
- Patient placement: isolation, enhanced precautions, bed and bay closure, cohorting.
- Preventing infection in immunocompromised patients.
- Risk assessment (of patients & events).
- Outbreak recognition and definition; management of cross-infection/clusters/outbreaks.
- Root cause analysis (RCA).
- Critical & serious incident investigation.
- Occupational Health implications of staff carriage or exposure to infection.
- Risk registers.
- The role of the Care Quality Commission in setting / inspecting IPC standards
- Detergent and Disinfectants.
- Clinical governance and complaints.
- Structure of the Infection Prevention and Control Team and Committee.
- Accountability of the Infection Prevention and Control Team and Committees to the parent organisation (Trust/CCG) in both hospital and community settings.

| CIT   | HST  | Method of learning                               | Indicative evidence of learning                  |
|---|--|--|--|
| • Understanding of general principles.                  | CIT plus:  | Local policies.                                  | Reflection on event.                             |
| <ul> <li>Attend root cause analysis meeting.</li> </ul> | <ul> <li>Active involvement in managing</li> </ul>     | <ul> <li>Local / Regional training.</li> </ul>   | • Evaluation of clinical events (ECE).           |
| <ul> <li>Attend IPCT meeting.</li> </ul>                | cross-infection incidents.                             | <ul> <li>Secondment to IPC Team.</li> </ul>      | <ul> <li>Case-based discussion (CBD).</li> </ul> |
| <ul> <li>Involvement in and advising on</li> </ul>      | <ul> <li>Lead an RCA meeting and write</li> </ul>      | • IPC Committee attendance.                      | • Evidence of active participation in            |
| management of clinical cases.                           | report.  | <ul> <li>Management of clinical cases</li> </ul> | and contribution to IPCT (e.g.                   |
| Perform Infection Control review                        | <ul> <li>Answer a complaint related to IPC.</li> </ul> | <ul> <li>Local study days (e.g. risk,</li> </ul> | committee minutes).                              |
| with ICNs.  | <ul> <li>Active participation in IPCT.</li> </ul>      | complaints, SUI).                                | <ul> <li>Author of outbreak report.</li> </ul>   |
|   | <ul> <li>Lead on guideline</li> </ul>                  | <ul> <li>Attending HIS Trainee Days.</li> </ul>  | <ul> <li>Author of RCA report.</li> </ul>        |
|   | review/production.                                     | <ul> <li>Attendance at HIS Foundation</li> </ul> | <ul> <li>Author of guideline.</li> </ul>         |
|   |  | Course.  | • Anonymised response to complaint.              |
|   |  | • Attendance at HIS Outbreak course.             |  |
|   |  | Mock CQC visit                                   |  |

#### 2. Outbreak investigation and control:

- Outbreak recognition and definition.
- Investigation of an outbreak.
- The outbreak committee and agenda.
- Basic epidemiological and microbiological investigations.
- Using Excel to construct outbreak timelines / epidemic curves.
- Risk factor analysis and simple case-control studies.
- Simple statistics (e.g. StatCalc).
- Undertaking and interpreting environmental, staff and patient samples.
- Implementation and assessment of outbreak control measures.
- Communications internally, externally.
- Writing a press release.
- Writing the outbreak report.

| CIT                                    | HST   | Method of learning                                   | Indicative evidence of learning                          |
|--|---|--|--|
| • Understanding of general principles. | CIT plus:   | <ul> <li>Active participation in outbreak</li> </ul> | <ul> <li>Reflection on event.</li> </ul>                 |
|  | <ul> <li>Active involvement in managing an</li> </ul> | committee (specific tasks, taking                    | <ul> <li>Evaluation of clinical events (ECE).</li> </ul> |
|  | outbreak / significant cross-infection                | notes, producing minutes).                           | <ul> <li>Evidence of active participation in</li> </ul>  |
|  | incident.   | • Attendance at HIS Outbreak course.                 | and contribution to outbreak /                           |
|  | Active participation in the outbreak                  |  | incident control (e.g. outbreak                          |
|  | committee and reporting.                              |  | committee minutes).                                      |
|  |   |  | <ul> <li>Author of outbreak report.</li> </ul>           |
|  |   |  | <ul> <li>Author of press release.</li> </ul>             |
|  |   |  | <ul> <li>Taking and producing committee</li> </ul>       |
|  |   |  | minutes.   |
|  |   |  |  |

## 3. Surveillance:

- Principles of day to day HCAI surveillance.
- Current mandatory reporting framework.
- Data required and data entry.
- DH and local targets and how they are set.
- Extracting and querying data.

| CIT   | HST   | Method of learning  | Indicative evidence of learning   |
|---|---|---|---|
| <ul> <li>Understanding of mandatory</li></ul> | <ul> <li>CIT plus:</li> <li>Experience of data entry.</li> <li>Experience of data retrieval.</li> <li>Involvement in local target</li></ul> | <ul> <li>Secondment to IPC Team.</li> <li>Local / Regional training.</li> <li>Attending HIS Trainee Days.</li> <li>Attendance at HIS Foundation</li></ul> | <ul> <li>Reflection on event.</li> <li>Evaluation of clinical events (ECE).</li> <li>Author of written report.</li> </ul> |
| surveillance.                                 | negotiations.   | Course.   |   |

## 4. Commonly encountered Healthcare Associated Infection (HCAI) and specific organisms:

#### (a) HA-MRSA & CA-MRSA and MSSA

- Epidemiology, clinical & IPC implications in healthcare settings and the community.
- Strategy aspects (national & local) and targets.
- Department of Health / UK / European and other guidelines.
- Mandatory reporting frameworks.
- Screening policies.
- Control measures.
- Root Cause Analysis.
- Occupational Health implications of staff carriage and infection.
- Laboratory detection methods and pros and cons of each.
- Treatment and decolonisation guidelines.
- Outbreak management.
- Panton Valentine Leukocidin detection/management/treatment/infection control/public health.

| CIT   | HST  | Method of learning                               | Indicative evidence of learning                     |
|---|--|--|---|
| <ul> <li>Understanding of HA-MRSA &amp; CA-</li> </ul>  | CIT plus:  | <ul> <li>Secondment to IPC Team.</li> </ul>      | Reflection on event.                                |
| MRSA and MSSA in the healthcare                         | <ul> <li>Lead a RCA meeting and write</li> </ul>                           | • IPCT committee attendance.                     | • Evaluation of clinical events (ECE).              |
| setting.  | report.  | Local policies.                                  | <ul> <li>Case-based discussion (CBD).</li> </ul>    |
| <ul> <li>Involvement in and advising on</li> </ul>      | Observe data input onto HCAI   | <ul> <li>Local / Regional training.</li> </ul>   | • Directly Observed Procedure (DOP).                |
| management of clinical cases                            | database.  | <ul> <li>Attending HIS Trainee Days.</li> </ul>  | <ul> <li>Author of outbreak report.</li> </ul>      |
| / bacteraemia review.                                   | <ul> <li>Experience of data retrieval.</li> </ul>                          | <ul> <li>Laboratory training.</li> </ul>         | Author of RCA report.                               |
| <ul> <li>Attend root cause analysis meeting.</li> </ul> | <ul> <li>Involvement in local target</li> </ul>                            | <ul> <li>Attendance at HIS Foundation</li> </ul> | Evidence of active participation in                 |
| Perform Infection Control review                        | negotiations.  | Course.  | and contribution to outbreak /                      |
| with ICNs.  | • Active involvement in managing an outbreak / significant cross-infection | Attendance at HIS Outbreak course.               | incident control (e.g. outbreak committee minutes). |
|   | incident.  |  |   |
|   | <ul> <li>Laboratory experience.</li> </ul>                                 |  |   |
|   |  |  |   |

## (b) Clostridium difficile

- Epidemiology, clinical & IPC implications in healthcare settings and the community.
- Definition of outbreak, community onset vs hospital onset, 48-hour rules, community vs healthcare-acquired/associated infection.
- Department of Health / UK / European and other guidelines.
- Principles of day to day HCAI surveillance.
- Control measures to address local increases in prevalence (e.g. hand hygiene, environmental and antibiotic audits).
- Cleaning methods and efficacy, persistence in patients, environmental persistence.
- Root Cause Analysis.
- Outbreak management.
- Laboratory detection methods and pros and cons of each.
- Strategy aspects (national & local) and targets.
- Mandatory reporting frameworks.

| CIT  | HST   | Method of learning                               | Indicative evidence of learning                  |
|--|---|--|--|
| • Understanding of <i>C. difficile</i> in the      | CIT plus:   | <ul> <li>Secondment to IPC Team.</li> </ul>      | Reflection on event.                             |
| healthcare setting.                                | <ul> <li>Lead a RCA meeting and write</li> </ul>      | • IPCT committee attendance.                     | • Evaluation of clinical events (ECE).           |
| <ul> <li>Involvement in and advising on</li> </ul> | report.   | Local policies.                                  | <ul> <li>Case-based discussion (CBD).</li> </ul> |
| management of clinical cases.                      | <ul> <li>Involvement in local target</li> </ul>       | <ul> <li>Local / Regional training.</li> </ul>   | • Directly Observed Procedure (DOP).             |
| • Attend root cause analysis meeting.              | negotiations.   | Laboratory training.                             | <ul> <li>Author of outbreak report.</li> </ul>   |
| Perform Infection Control review                   | <ul> <li>Active involvement in managing an</li> </ul> | <ul> <li>Attending HIS Trainee Days.</li> </ul>  | • Author of RCA report.                          |
| with ICNs.   | outbreak / significant cross-infection                | <ul> <li>Attendance at HIS Foundation</li> </ul> | • Evidence of active participation in            |
|  | incident.   | Course.  | and contribution to outbreak /                   |
|  | Laboratory experience.                                | • Attendance at HIS Outbreak course.             | incident control (e.g. outbreak                  |
|  |   |  | committee minutes).                              |
|  |   |  |  |

# (c) Glycopeptide resistant enterococci

- Epidemiology, clinical & IPC implications in healthcare settings and the community.
- Control guidelines.
- Department of Health / UK / European and other guidelines.
- Control measures to address local increases in prevalence (e.g. hand hygiene, environmental and antibiotic audits).
- Cleaning methods and efficacy, persistence in patients, environmental persistence.
- Outbreak management.
- Laboratory detection and identification methods.
- Local surveillance.

| CIT  | HST   | Method of learning                               | Indicative evidence of learning                  |
|--|---|--|--|
| <ul> <li>Understanding of GRE in the</li> </ul>    | CIT plus:   | <ul> <li>Secondment to IPC Team.</li> </ul>      | Reflection on event.                             |
| healthcare setting.                                | <ul> <li>Active involvement in managing an</li> </ul> | • IPCT committee attendance.                     | • Evaluation of clinical events (ECE).           |
| <ul> <li>Involvement in and advising on</li> </ul> | outbreak / significant cross-infection                | Local policies.                                  | <ul> <li>Case-based discussion (CBD).</li> </ul> |
| management of clinical cases.                      | incident.   | <ul> <li>Local / Regional training.</li> </ul>   | • Directly Observed Procedure (DOP).             |
| Perform Infection Control review                   | <ul> <li>Laboratory experience.</li> </ul>            | <ul> <li>Laboratory training.</li> </ul>         | <ul> <li>Author of outbreak report.</li> </ul>   |
| with ICNs.   |   | <ul> <li>Attending HIS Trainee Days.</li> </ul>  | Evidence of active participation in              |
|  |   | <ul> <li>Attendance at HIS Foundation</li> </ul> | and contribution to outbreak /                   |
|  |   | Course.  | incident control (e.g. outbreak                  |
|  |   | • Attendance at HIS Outbreak course.             | committee minutes).                              |
|  |   |  |  |

## (d) Multi resistant Gram negatives (Acinetobacter, Pseudomonas, CPE)

- Epidemiology, clinical & IPC implications in healthcare settings and the community.
- Definitions
- Public Health England (PHE) guidance on management.
- Department of Health / UK / European and other guidelines.
- Strategy for control in hospitals.
- Strategy for control in the community.
- Screening, isolation.
- Laboratory detection methods and pros and cons of each.
- Cleaning methods and efficacy, persistence in patients, environmental persistence.
- Outbreak management.

| CIT  | HST   | Method of learning                               | Indicative evidence of learning                  |
|--|---|--|--|
| <ul> <li>Understanding of MR-Gram</li> </ul>       | CIT plus:   | <ul> <li>Secondment to IPC Team.</li> </ul>      | <ul> <li>Reflection on event.</li> </ul>         |
| negatives in the healthcare setting.               | <ul> <li>Active involvement in managing an</li> </ul> | • IPCT committee attendance.                     | • Evaluation of clinical events (ECE).           |
| <ul> <li>Involvement in and advising on</li> </ul> | outbreak / significant cross-infection                | Local policies.                                  | <ul> <li>Case-based discussion (CBD).</li> </ul> |
| management of clinical cases                       | incident.   | <ul> <li>Local / Regional training.</li> </ul>   | • Directly Observed Procedure (DOP).             |
| Perform Infection Control review                   | <ul> <li>Laboratory experience.</li> </ul>            | <ul> <li>Laboratory training.</li> </ul>         | <ul> <li>Author of outbreak report.</li> </ul>   |
| with ICNs.   |   | <ul> <li>Attending HIS Trainee Days.</li> </ul>  | Evidence of active participation in              |
|  |   | <ul> <li>Attendance at HIS Foundation</li> </ul> | and contribution to outbreak /                   |
|  |   | Course.  | incident control (e.g. outbreak                  |
|  |   | • Attendance at HIS Outbreak course.             | committee minutes).                              |
|  |   |  |  |

# (e) HA- and CA- Tuberculosis

- Epidemiology, clinical & IPC implications in healthcare settings and the community.
- Public Health England (PHE) guidance on diagnosis, management and screening.
- Management of a TB exposure in a healthcare setting.
- Department of Health / UK / European and other guidelines.
- TB vs other mycobacteria: what needs isolating/contact tracing.
- Occupational Health implications of healthcare worker exposure.
- Multi-drug resistance issues.

| CIT  | HST   | Method of learning                               | Indicative evidence of learning                  |
|--|---|--|--|
| <ul> <li>Understanding of mycobacterial</li> </ul> | CIT plus:   | <ul> <li>Secondment to IPC Team.</li> </ul>      | <ul> <li>Reflection on event.</li> </ul>         |
| infection in the healthcare setting.               | <ul> <li>Active involvement in managing an</li> </ul> | • IPCT committee attendance.                     | • Evaluation of clinical events (ECE).           |
| <ul> <li>Involvement in and advising on</li> </ul> | outbreak or exposure incident (arising                | Local policies.                                  | <ul> <li>Case-based discussion (CBD).</li> </ul> |
| management of clinical cases.                      | from either a patient or healthcare                   | <ul> <li>Local / Regional training.</li> </ul>   | • Directly Observed Procedure (DOP).             |
| Perform Infection Control review                   | worker).  | <ul> <li>Laboratory training.</li> </ul>         | <ul> <li>Author of outbreak report.</li> </ul>   |
| with ICNs.   |   | <ul> <li>Attending HIS Trainee Days.</li> </ul>  | • Evidence of active participation in            |
|  |   | <ul> <li>Attendance at HIS Foundation</li> </ul> | and contribution to outbreak /                   |
|  |   | Course.  | incident control (e.g. outbreak                  |
|  |   | • Attendance at HIS Outbreak course.             | committee minutes).                              |
|  |   |  |  |

## (f) Viral infections

- $\circ$  Norovirus
- o Respiratory viruses in immunosuppressed
- o SARS, smallpox, haemorrhagic fevers, MERS-CoV
- o Respiratory viruses/RSV in children, VZV, measles, mumps, coxsackie
- Influenza and Pandemic 'flu
- o Blood-borne viruses, including prevention of spread in the haemodialysis setting.
- Epidemiology, clinical & IPC implications in healthcare settings and the community.
- Occupational Health implications of healthcare worker exposure or infection, including accidental BBV exposure in dialysis or theatre.
- Department of Health / UK / European and other guidelines.

| CIT  | HST   | Method of learning                               | Indicative evidence of learning                  |
|--|---|--|--|
| Understanding of viral infection in                | CIT plus:   | <ul> <li>Secondment to IPC Team.</li> </ul>      | Reflection on event.                             |
| the healthcare setting.                            | <ul> <li>Active involvement in managing an</li> </ul> | • IPCT committee attendance.                     | • Evaluation of clinical events (ECE).           |
| <ul> <li>Involvement in and advising on</li> </ul> | outbreak / exposure incident.                         | Local policies.                                  | <ul> <li>Case-based discussion (CBD).</li> </ul> |
| management of clinical cases.                      |   | <ul> <li>Local / Regional training.</li> </ul>   | • Directly Observed Procedure (DOP).             |
| Perform Infection Control review                   |   | <ul> <li>Attending HIS Trainee Days.</li> </ul>  | <ul> <li>Author of outbreak report.</li> </ul>   |
| with ICNs.   |   | <ul> <li>Attendance at HIS Foundation</li> </ul> | • Evidence of active participation in            |
|  |   | Course.  | and contribution to outbreak /                   |
|  |   | • Attendance at HIS Outbreak course.             | incident control (e.g. outbreak                  |
|  |   |  | committee minutes).                              |
|  |   |  |  |

# (g) Other infections

- Group A Streptococcus
- o Pertussis
- Fungal infection e.g. Aspergillus and moulds
- Scabies, lice, bed bugs
- Epidemiology, clinical & IPC implications in healthcare settings and the community.
- Department of Health / UK / European and other guidelines.
- Occupational Health implications of healthcare worker exposure or infection.
- Preventing infection in immunocompromised patients.

| CIT  | HST   | Method of learning                               | Indicative evidence of learning                          |
|--|---|--|--|
| • Understanding of these infections in             | CIT plus:   | <ul> <li>Secondment to IPC Team.</li> </ul>      | <ul> <li>Reflection on event.</li> </ul>                 |
| the healthcare setting.                            | <ul> <li>Active involvement in managing an</li> </ul> | <ul> <li>IPCT committee attendance.</li> </ul>   | <ul> <li>Evaluation of clinical events (ECE).</li> </ul> |
| <ul> <li>Involvement in and advising on</li> </ul> | outbreak / exposure incident.                         | Local policies.                                  | <ul> <li>Case-based discussion (CBD).</li> </ul>         |
| management of clinical cases.                      | <ul> <li>Laboratory experience.</li> </ul>            | <ul> <li>Local / Regional training.</li> </ul>   | • Directly Observed Procedure (DOP).                     |
| Perform Infection Control review                   |   | <ul> <li>Attending HIS Trainee Days</li> </ul>   | <ul> <li>Author of outbreak report.</li> </ul>           |
| with ICNs.   |   | <ul> <li>Laboratory training.</li> </ul>         | <ul> <li>Evidence of active participation in</li> </ul>  |
|  |   | <ul> <li>Attendance at HIS Foundation</li> </ul> | and contribution to outbreak /                           |
|  |   | Course.  | incident control (e.g. outbreak                          |
|  |   | • Attendance at HIS Outbreak course.             | committee minutes).                                      |
|  |   |  |  |

# 5. Device-related infection

- Understand the role of Invasive devices as sources of infection.
- Catheter related Blood Stream Infections (CR-BSI).
- Catheter Associated Urinary Tract Infections (CA-UTI).
- Ventilator associated pneumonia (VAP).

| CIT  | HST  | Method of learning                               | Indicative evidence of learning                         |
|--|--|--|---|
| • Understanding of these infections in             | CIT plus:  | <ul> <li>Secondment to IPC Team.</li> </ul>      | <ul> <li>Reflection on event.</li> </ul>                |
| the healthcare setting.                            | <ul> <li>Lead a RCA meeting where device-</li> </ul> | • IPCT committee attendance.                     | • Evaluation of clinical events (ECE).                  |
| <ul> <li>Involvement in and advising on</li> </ul> | related infection is a factor and write              | Local policies.                                  | <ul> <li>Case-based discussion (CBD).</li> </ul>        |
| management of clinical cases.                      | report.  | <ul> <li>Local / Regional training.</li> </ul>   | <ul> <li>Evidence of active participation in</li> </ul> |
|  | <ul> <li>Active participation in IPCT.</li> </ul>    | <ul> <li>Attending HIS Trainee Days.</li> </ul>  | and contribution to IPCT (e.g.                          |
|  | <ul> <li>Lead on guideline</li> </ul>                | <ul> <li>Laboratory training.</li> </ul>         | committee minutes).                                     |
|  | review/production.                                   | <ul> <li>Attendance at HIS Foundation</li> </ul> | <ul> <li>Author of RCA report.</li> </ul>               |
|  |  | Course.  | <ul> <li>Author of guideline.</li> </ul>                |
|  |  | • Attendance at HIS Outbreak course.             |   |
|  |  |  |   |

## 6. Environmental infection control

## (d) Legionella:

- Guidance, e.g.: HTM 04-01, L8.
- Attend Water Quality Committee meeting.
- Laboratory processing of water samples.
- Response to detection of Legionella in a water outlet.

| CIT  | HST   | Method of learning                               | Indicative evidence of learning         |
|--|---|--|---|
| <ul> <li>Awareness of the implications of</li> </ul> | CIT plus:   | Water Quality Committee                          | Reflection on event.                    |
| Legionella in the healthcare setting.                | <ul> <li>Understanding of guidance for</li> </ul>     | attendance.                                      | • Evaluation of clinical events (ECE).  |
| <ul> <li>Involvement in and advising on</li> </ul>   | Legionella control in healthcare                      | Local policies.                                  | • Directly Observed Procedure (DOP).•   |
| management of clinical cases.                        | premises.   | <ul> <li>Local / Regional training.</li> </ul>   | Evidence of active participation in and |
|  | • Deal with episode of elevated level                 | <ul> <li>Attending HIS Trainee Days.</li> </ul>  | contribution to Water Quality           |
|  | of Legionella detected in water                       | <ul> <li>Laboratory training.</li> </ul>         | Committee (e.g. committee minutes).     |
|  | samples.  | <ul> <li>Attendance at HIS Foundation</li> </ul> | • Document advice given in response     |
|  | <ul> <li>Laboratory experience: processing</li> </ul> | Course.  | to elevated level of Legionella         |
|  | environmental samples.                                | • Attendance at HIS Outbreak course.             | detected in water samples.              |
|  |   |  |   |

# (e) Other water issues:

- Ice machines and water coolers.
- Reverse Osmosis (RO) water.
- Dialysis Unit water quality.
- Birthing and hydrotherapy pools.
- New builds and water system validation.
- Endoscope Washer Disinfectors.
- Cardiac Heater Coolers.
- Pseudomonas control in high-risk units.

| СІТ   | HST   | Method of learning                               | Indicative evidence of learning                         |
|---|---|--|---|
| <ul> <li>Awareness of water quality in the</li> </ul> | CIT plus:   | <ul> <li>Secondment to IPC Team.</li> </ul>      | Reflective note.  |
| healthcare setting and its implications.              | <ul> <li>Understanding of guidance for</li> </ul>         | Water Quality Committee                          | • Evaluation of clinical events (ECE).                  |
|   | ensuring water quality in healthcare                      | attendance.                                      | • Directly Observed Procedure (DOP).                    |
|   | premises.   | Local policies.                                  | <ul> <li>Evidence of active participation in</li> </ul> |
|   | <ul> <li>Involvement in IPC issues relating to</li> </ul> | <ul> <li>Local / Regional training.</li> </ul>   | and contribution to Water Quality                       |
|   | day-to-day water quality.                                 | <ul> <li>Attending HIS Trainee Days.</li> </ul>  | Committee (e.g. committee minutes).                     |
|   | <ul> <li>Involvement in estate</li> </ul>                 | <ul> <li>Laboratory training.</li> </ul>         | <ul> <li>Reflection on advice given in</li> </ul>       |
|   | reconfiguration or planning where                         | <ul> <li>Attendance at HIS Foundation</li> </ul> | response to water quality problem or                    |
|   | water quality is addressed.                               | Course.  | management of an incident.                              |
|   | <ul> <li>Active involvement in</li> </ul>                 |  |   |
|   | investigating/managing an incident.                       |  |   |
|   |   |  |   |

## (f) Theatres and Ventilation:

- Guidance, eg: HTM 03-01, HIS guidelines (e.g. Guidelines on the facilities required for minor surgical procedures and minimal access interventions 2012, Microbiological commissioning and monitoring of operating theatre suites 2002).
- Collection methods and laboratory processing of air samples.
- Ventilation design: conventional and laminar flow theatre (UCV) ventilation.
- Infection control aspects of design, work flow etc.
- Commissioning and annual verification test / interpreting reports.
- Validation after refurbishment/ major works.
- Ventilation in other settings: negative pressure isolation, HEPA filtration (e.g. Haematology).
- Other healthcare facilities: Review plans; involvement in design and build; final review; sign off: ongoing during build: final reviews and sign off.

| CIT   | HST   | Method of learning                                    | Indicative evidence of learning                          |
|---|---|---|--|
| <ul> <li>Awareness of ventilation quality in</li> </ul> | CIT plus:   | <ul> <li>Secondment to IPC Team.</li> </ul>           | <ul> <li>Reflective note on involvement in</li> </ul>    |
| the healthcare setting and its                          | <ul> <li>Active participation in IPCT.</li> </ul>         | <ul> <li>IPCT committee attendance.</li> </ul>        | planning or facilities design.                           |
| implications.   | <ul> <li>Understanding of guidance for</li> </ul>         | Local policies.                                       | <ul> <li>Evaluation of clinical events (ECE).</li> </ul> |
|   | ensuring ventilation quality in                           | <ul> <li>Local / Regional training.</li> </ul>        | <ul> <li>Evidence of active participation in</li> </ul>  |
|   | healthcare premises.                                      | <ul> <li>Attending HIS Trainee Days</li> </ul>        | and contribution to IPCT (e.g.                           |
|   | <ul> <li>Involvement in IPC issues relating to</li> </ul> | <ul> <li>Laboratory training.</li> </ul>              | committee minutes).                                      |
|   | day-to-day air quality.                                   | <ul> <li>Attendance at HIS Foundation</li> </ul>      | <ul> <li>Reflection on advice given in</li> </ul>        |
|   | <ul> <li>Involvement in estate</li> </ul>                 | Course.   | response to ventilation problem or                       |
|   | reconfiguration or planning where                         | <ul> <li>Attendance at Estates planning or</li> </ul> | management of an incident.                               |
|   | ventilation is addressed.                                 | design meeting.                                       |  |
|   | <ul> <li>Review annual verification reports</li> </ul>    |   |  |
|   | for both conventional and ultraclean                      |   |  |
|   | theatres. Identify any issues and                         |   |  |
|   | suggest a suitable response.                              |   |  |
|   | <ul> <li>Active involvement in</li> </ul>                 |   |  |
|   | investigating/managing an incident.                       |   |  |
|   |   |   |  |

- 7. Decontamination of medical devices, equipment and the environment:
  - Sterile services department (SSD).
    - Guidance, eg: HTM01-01
    - Organisation of SSD
    - Infection control aspects of design, work flow etc
  - Roles and Responsibilities (Microbiologist, DIPC, Decontamination Lead, Authorised Person/AE(D)).
  - Methods of decontamination/disinfection/sterilisation.
  - Ultrasound probes.
  - New equipment: how to review decontamination requirements including ward based equipment, endoscopes and surgical instruments.
  - Pharmacy and manufacturing.
  - Role and function of environmental detergent/disinfectants.
  - Evaluation of effectiveness and safety of environmental detergent/disinfectants.
  - Automated Room Decontamination Devices (ARDD) including Ultraviolet & Hydrogen Peroxide Vapour (HPV)
  - Decontamination of different types of medical device (surgical instruments / ventilation equipment / intracavity devices).
  - Decontamination of dental instruments (primarily in the community) e.g. guidance HTM01-05.
  - Creutzfeldt Jakob Disease (CJD/vCJD) and instrument decontamination.
    - o DH guidance
    - Management and follow up of a suspected case
    - o Assessment of CJD risk in patients undergoing invasive procedures
    - Management of patients deemed to be at risk of vCJD/CJD
    - Surgical equipment tracking

| CIT  | HST   | Method of learning                                | Indicative evidence of learning                   |
|--|---|---|---|
| <ul> <li>Awareness of the management of</li> </ul> | CIT plus:   | <ul> <li>Secondment to IPC Team.</li> </ul>       | • Evaluation of clinical events (ECE).            |
| medical devices and equipment in the               | <ul> <li>Understanding of relevant guidance</li> </ul>    | • Visit to SSD.                                   | • Evidence of active participation in             |
| healthcare setting.                                | and its application to practice.                          | <ul> <li>IPCT committee attendance.</li> </ul>    | and contribution to Decontamination               |
| <ul> <li>Awareness of the need for pre-</li> </ul> | <ul> <li>Active participation in</li> </ul>               | Local policies.                                   | Group, MEMG and incident control                  |
| procedure CJD risk assessment.                     | Decontamination Group meetings.                           | <ul> <li>Local / Regional training.</li> </ul>    | meeting (e.g. committee minutes).                 |
|  | <ul> <li>Active participation in Medical</li> </ul>       | <ul> <li>Attending HIS Trainee Days.</li> </ul>   | <ul> <li>Reflection on advice given in</li> </ul> |
|  | Equipment Management Group                                | <ul> <li>Attendance at HIS Foundation</li> </ul>  | response to decontamination                       |
|  | meetings.   | Course.   | problem or management of an                       |
|  | <ul> <li>Involvement in IPC issues relating to</li> </ul> | <ul> <li>Attendance at Decontamination</li> </ul> | incident.   |

| <ul> <li>day-to-day management of medical devices</li> <li>Able to make preoperative CJD risk assessment.</li> <li>Active involvement in investigating/managing an incident relating to medical equipment (including CJD exposure).</li> </ul> | <ul> <li>Group meetings.</li> <li>Attendance at Medical Equipment<br/>Management Group meetings<br/>(MEMG).</li> <li>Attendance at HIS Outbreak course.</li> </ul> | <ul> <li>Reflective note on the IPC aspects of<br/>new equipment acquisition.</li> <li>Reflective note on response to a CJD<br/>exposure incident.</li> </ul> |
|--|--|---|
|--|--|---|

# 8. Endoscopy service:

- Guidance, e.g.: HTM 01-06.
- Roles and Responsibilities (Microbiologist, DIPC, Decontamination Lead, Authorised Person/AE(D)).
- Infection control aspects of design, work flow etc.
- Decontamination of endoscopes process, equipment & validation.
- Detergent and Disinfectants.
- Rinse water testing.
- Assessment and management of patients at risk of Creutzfeldt Jakob Disease (vCJD/CJD).

| CIT  | HST   | Method of learning                                 | Indicative evidence of learning                          |
|--|---|--|--|
| Awareness of clinical issues relating              | CIT plus:   | <ul> <li>Secondment to IPC Team.</li> </ul>        | <ul> <li>Evaluation of clinical events (ECE).</li> </ul> |
| to decontamination of endoscopes.                  | <ul> <li>Understanding of relevant guidance</li> </ul>    | <ul> <li>Visit to Endoscopy department.</li> </ul> | <ul> <li>Reflection on management of an</li> </ul>       |
| <ul> <li>Awareness of the need for pre-</li> </ul> | and its application to practice.                          | <ul> <li>IPCT committee attendance.</li> </ul>     | incident relating to endoscopy.                          |
| procedure CJD risk assessment.                     | <ul> <li>Involvement in IPC issues relating to</li> </ul> | Local policies.                                    | <ul> <li>Reflection on response to high TVC</li> </ul>   |
|  | endoscopy.  | <ul> <li>Local / Regional training.</li> </ul>     | count for final rinse waters                             |
|  | • Able to make pre-endoscopy CJD risk                     | <ul> <li>Attending HIS Trainee Days</li> </ul>     | (endoscope washer disinfectors).                         |
|  | assessment.   | <ul> <li>Laboratory experience.</li> </ul>         |  |
|  | <ul> <li>Active involvement in</li> </ul>                 | <ul> <li>Attendance at HIS Foundation</li> </ul>   |  |
|  | investigating/managing an incident                        | Course.  |  |
|  | relating to endoscopy.                                    | • Attendance at HIS Outbreak course.               |  |
|  | <ul> <li>Assessment of TVC reports for final</li> </ul>   |  |  |
|  | rinse waters (endoscope washer                            |  |  |
|  | disinfectors).  |  |  |
|  |   |  |  |

## 9. Laundry service:

- Guidance and literature, e.g.: HSG(95)18, Dry cleaning JHI (1993) 23; 255-262, Laundry JHI (1994) 27; 219-235.
- Roles and Responsibilities (Microbiologist, DIPC, Decontamination Lead, Authorised Person/AE(D)).
- Infection control aspects of design, work flow etc.
- Process & temperatures of washing and drying cycles.
- Equipment.
- Validation and quality control.
- Role of detergents and disinfectants.
- Microbiological testing of laundered linen and the interpretation of the results.
- The properties of different fabrics used in the healthcare setting.
- Prevention of infection and injury to staff handling used linen.

| CIT | HST  | Method of learning   | Indicative evidence of learning   |
|-----|--|--|---|
| n/a | <ul> <li>Understanding of relevant guidance<br/>and its application to practice.</li> <li>Involvement in IPC issues relating to<br/>laundry e.g. requests for domestic<br/>washing machines on wards.</li> </ul> | <ul> <li>Secondment to IPC Team.</li> <li>Visit to laundry facility.</li> <li>IPCT committee attendance.</li> <li>Local policies.</li> <li>Local / Regional training.</li> </ul> | <ul> <li>Reflective note.</li> <li>Evaluation of clinical events (ECE).</li> <li>Reflection on management of a query or incident relating to laundry services.</li> </ul> |
|     |  | <ul> <li>Attending HIS Trainee Days.</li> <li>Laboratory experience.</li> <li>Attendance at HIS Foundation<br/>Course.</li> </ul>  |   |

## 10. Hospital Catering & food hygiene

- Understanding of food production & supply: Hospital Central Production Unit / Cook-chill and cook-freeze / ward meal service / retail outlets
- Quality Assurance
- Regulation eg. British Standards ISO 9001: 2015, Food Safety Act 1990, Food Hygiene (England) Regulations 2006, General Food Regulations 2004, EU Food Information for Consumers Regulation 1169/2011, EC Regulation 852/2004 Hygiene of Food Stuffs, EC Regulation 178/2002 General Food Law Regulation, EC Regulation 2073/2005 Microbiological Criteria of Foods, Chilled and Frozen: Department of Health Guidelines on Cook-Chill and Cook-Freeze Catering Systems 1989 (ISBN 0 11 321161 9).
- Understanding of the role of HACCP analysis in food production.
- Role of microbiological monitoring pathogens and hygiene indicator organisms (eg. HPA Guidelines for Assessing the Microbiological Safety of Ready-to-Eat Foods Placed on the Market, 2009)
- Role of the Food Standards Agency and Local Authority
- Outbreaks associated with institutional catering

| CIT | HST  | Method of learning                               | Evidence of learning                                     |
|-----|--|--|--|
| n/a | <ul> <li>Understanding of relevant guidance</li> </ul> | <ul> <li>Secondment to IPC Team.</li> </ul>      | Reflective note.   |
|     | and its application to practice.                       | <ul> <li>Visit to catering facility.</li> </ul>  | <ul> <li>Evaluation of clinical events (ECE).</li> </ul> |
|     | • Involvement in IPC issues relating to                | • IPCT committee attendance.                     | <ul> <li>Reflection on management of a</li> </ul>        |
|     | catering   | Local policies.                                  | query or incident relating to catering                   |
|     |  | <ul> <li>Local / Regional training.</li> </ul>   | services.  |
|     |  | <ul> <li>Attending HIS Trainee Days.</li> </ul>  |  |
|     |  | <ul> <li>Laboratory experience</li> </ul>        |  |
|     |  | <ul> <li>Attendance at HIS Foundation</li> </ul> |  |
|     |  | Course   |  |
|     |  | Attendance at HIS Outbreak course                |  |
|     |  |  |  |

## **11.** Estates and facilities:

- Guidance and literature, e.g.: HBN00-09.
- The role of IPC in advising estates.
- Review of plans: design and function e.g. spacing, flow.
- Advice on choice of fittings (e.g. taps, sinks, flooring).
- Pest control (e.g. fleas, bed bugs, flies).
- Waste disposal.
- Dust control measures during building work / refurbishment.
- Specifications for different types of isolation room.

| CIT | HST  | Method of learning  | Indicative evidence of learning   |
|-----|--|---|---|
| n/a | <ul> <li>HST</li> <li>Understanding of relevant guidance<br/>and its application to practice.</li> <li>Involvement in IPC issues / incidents<br/>relating to Estates and facilities</li> </ul> | Method of learning     Secondment to IPC Team.     IPCT committee attendance.     Local policies.     Local / Regional training.     Attending HIS Trainee Days   | <ul> <li>Indicative evidence of learning</li> <li>Reflective note.</li> <li>Evaluation of clinical events (ECE).</li> <li>Reflection on management of a query or incident relating to Estates and facilities management e.g. waste</li> </ul> |
|     | <ul> <li>Involvement in Estates design and<br/>planning group for reconfiguration or<br/>new build.</li> <li>Review of plans for new or upgrade<br/>work .</li> </ul>                          | <ul> <li>Attending His Hallee Days.</li> <li>Laboratory experience.</li> <li>Attendance at HIS Foundation<br/>Course.</li> <li>Involvement in Estates design and<br/>planning group.</li> <li>Attendance at HIS Outbreak course.</li> </ul> | <ul> <li>disposal, pests, dust control.</li> <li>Reflection on participation in design<br/>and planning group for reconfiguration<br/>or new build.</li> </ul>  |

# 12. The role of the laboratory

- Understand available detection methods for both clinical and targeted environmental samples.
- Understand the principles of different typing methods, which methods are appropriate for specific organisms and how typing aids infection control investigations.
- Able to make appropriate recommendation for additional microbiology testing to support and inform control measures in response to newly diagnosed infections.

| CIT   | HST  | Method of learning                               | Indicative evidence of learning                          |
|---|--|--|--|
| <ul> <li>Awareness of laboratory methods</li> </ul> | CIT plus:  | <ul> <li>Laboratory experience.</li> </ul>       | Reflective note.   |
| available locally and from reference                | <ul> <li>Understanding of relevant guidance</li> </ul> | Local SOPs.                                      | <ul> <li>Directly Observed Procedure (DOPS).</li> </ul>  |
| laboratories.                                       | and its application to practice.                       | <ul> <li>Local / Regional training.</li> </ul>   | <ul> <li>Evaluation of clinical events (ECE).</li> </ul> |
|   | <ul> <li>Formulate opinion on which</li> </ul>         | <ul> <li>Attending HIS Trainee Days.</li> </ul>  |  |
|   | methods/typing to use in different                     | <ul> <li>Attendance at HIS Foundation</li> </ul> |  |
|   | scenarios to support IPC needs.                        | Course.  |  |
|   |  | • Attendance at HIS Outbreak course.             |  |
|   |  |  |  |

## **13.** Epidemiology and surveillance

- Collecting data: use of spreadsheets and databases.
- Presenting data.
- Using data to influence practice.
- Using a timeline or epidemic curve.
- When and how to use a case control study.
- Epidemiology & infection control aspects of surgical site infections (SSI): definitions, relationship to IPC.

| CIT  | HST   | Method of learning   | Indicative evidence of learning   |
|--|---|--|---|
| <ul> <li>Awareness of surveillance as a means for changing or improving practice.</li> <li>Advise on management of a case of SSI.</li> </ul> | <ul> <li>CIT plus:</li> <li>Able to record data in spreadsheet<br/>or database.</li> <li>Ability to extract and present data in<br/>an appropriate format.Deal with a<br/>cluster of SSI in a specialty.</li> </ul> | <ul> <li>Laboratory experience.</li> <li>Local SOPs.</li> <li>Local / Regional training.</li> <li>Attending HIS Trainee Days.</li> <li>Attendance at HIS Foundation<br/>Course.</li> <li>Attendance at HIS Outbreak course.</li> <li>Perform a Quality Improvement (QI)<br/>project in SSI reduction.</li> </ul> | <ul> <li>Reflective note.</li> <li>Directly Observed Procedure (DOPS).</li> <li>Evaluation of clinical events (ECE).</li> <li>Case-based discussion (CBD).</li> <li>QI project report.</li> </ul> |

# 14. Communication between healthcare providers

- Liaison with GPs/ CCG and Public Health.
- Investigation and management of clusters / outbreaks in the community.
- The role of the HPU.
- Notifiable disease regulations.
- Infection prevention and control in the community and non-acute settings.
- The role of the Environmental Health Department in the investigation of infection.

| CIT   | HST   | Method of learning                                      | Indicative evidence of learning                         |
|---|---|---|---|
| Awareness of the routes of informal                 | CIT plus:   | Attachment to HPU.                                      | Reflective note.  |
| and formal communication required                   | <ul> <li>Active involvement in managing an</li> </ul> | <ul> <li>Visit to/liaison with Environmental</li> </ul> | <ul> <li>Evaluation of clinical events (ECE)</li> </ul> |
| to deliver ICP and manage incidents                 | outbreak / significant cross-infection                | Health Department.                                      | <ul> <li>Evidence of active participation in</li> </ul> |
| across organisational boundaries.                   | incident.   | <ul> <li>Active participation in inter-</li> </ul>      | and contribution to outbreak /                          |
| <ul> <li>Understand and apply Notifiable</li> </ul> | <ul> <li>Deal with IPC issue in non-acute</li> </ul>  | organisational outbreak (specific tasks,                | incident control (e.g. outbreak                         |
| Disease Regulations in routine                      | setting (e.g. nursing/residential home)               | taking notes, producing minutes).                       | committee minutes).                                     |
| practice.   | in conjunction with community ICN.                    | Community IPC Committee                                 |   |
|   |   | attendance.   |   |
|   |   | <ul> <li>Local / Regional training.</li> </ul>          |   |
|   |   | <ul> <li>Attending HIS Trainee Days.</li> </ul>         |   |
|   |   | <ul> <li>Attendance at HIS Foundation</li> </ul>        |   |
|   |   | Course.   |   |
|   |   | • Attendance at HIS Outbreak course.                    |   |
|   |   |   |   |

# 15. Occupational Health Issues (OH)

- Pros and cons of Staff Screening.
- Confidentiality issues.
- MRSA.
- Diarrhoea.
- Rashes.
- Tuberculosis.
- Influenza and respiratory viruses.
- Issues of potential conflict between OH and IPC e.g. dermatitis, chemicals.
- Needle-stick/Blood borne virus (BBV) exposure incidents.
- Infections in healthcare workers attributable to occupational exposure (RIDDOR).

| CIT   | HST   | Method of learning                                   | Indicative evidence of learning                          |
|---|---|--|--|
| Awareness of the role of the                            | CIT plus:   | <ul> <li>Active liaison with Occupational</li> </ul> | <ul> <li>Reflective note referencing</li> </ul>          |
| Occupational Health Department in                       | <ul> <li>Active involvement in managing an</li> </ul> | Health Department.                                   | occupational health issues.                              |
| managing staff with infection.                          | outbreak / significant cross-infection                | Local policies.                                      | <ul> <li>Evaluation of clinical events (ECE).</li> </ul> |
| Awareness of the interface between                      | incident where staff members have                     | <ul> <li>Secondment to IPC Team.</li> </ul>          | <ul> <li>Case-based discussion (CBD).</li> </ul>         |
| IPC and occupational health in                          | been affected.  | • IPCT committee attendance.                         | <ul> <li>Evidence of active participation in</li> </ul>  |
| screening or managing staff with                        |   | <ul> <li>Active participation in inter-</li> </ul>   | and contribution to outbreak /                           |
| infection.  |   | organisational outbreak (specific tasks,             | incident control (e.g. outbreak                          |
| <ul> <li>Awareness of the potential for</li> </ul>      |   | taking notes, producing minutes).                    | committee minutes).                                      |
| infected or colonised staff to transmit                 |   | <ul> <li>Local / Regional training.</li> </ul>       |  |
| infection to or between patients.                       |   | <ul> <li>Attending HIS Trainee Days.</li> </ul>      |  |
| <ul> <li>Awareness that staff are at risk of</li> </ul> |   | <ul> <li>Attendance at HIS Foundation</li> </ul>     |  |
| acquiring infection from patients.                      |   | Course.  |  |
|   |   | • Attendance at HIS Outbreak course.                 |  |
|   |   |  |  |

# **16.** Service evaluation/ research/audit in IPC

- The role of audit and service evaluation in IPC
- Critical appraisal of new technology or product related to IPC

| CIT  | HST  | Method of learning                               | Indicative evidence of learning                          |
|--|--|--|--|
| <ul> <li>Awareness of audits being</li> </ul>      | CIT plus:  | <ul> <li>Secondment to IPC Team.</li> </ul>      | Reflective note.   |
| undertaken as part of the IPC                      | <ul> <li>Undertake a critical evaluation of a</li> </ul> | <ul> <li>IPCT committee attendance.</li> </ul>   | <ul> <li>Evaluation of clinical events (ECE).</li> </ul> |
| programme.   | proposed new product (e.g. hand                          | <ul> <li>Local / Regional training.</li> </ul>   | <ul> <li>Evaluation/appraisal report.</li> </ul>         |
| <ul> <li>Participate in hand hygiene or</li> </ul> | hygiene product or wipe) or of the                       | <ul> <li>Attending HIS Trainee Days.</li> </ul>  | <ul> <li>Audit, service evaluation or quality</li> </ul> |
| environmental audit.                               | proposed decontamination method                          | <ul> <li>Attendance at HIS Foundation</li> </ul> | improvement (QI) report.                                 |
|  | for a new piece of equipment.                            | Course.  |  |
|  |  | • Attendance at HIS Outbreak course.             |  |
|  |  | Perform an audit, service evaluation             |  |
|  |  | or quality improvement (QI) project on           |  |
|  |  | an aspect of infection control practice.         |  |
|  |  |  |  |

## 17. Leadership skills

- Effective communication with clinical and other professional colleagues, individually and in a team setting
- Works effectively and provides clinical leadership in a multidisciplinary team
- Makes effective decisions in a team setting and take responsibility for them
- Effective team-working skills, including influencing, negotiating, setting priorities and managing complex situations.
- Highly organised
- Delegates appropriately
- Completes tasks reliably

| CIT   | HST  | Method of learning                                     | Evidence of learning                                    |
|---|--|--|---|
| • Understanding of general principles.                | CIT plus:  | <ul> <li>Secondment to IPC Team.</li> </ul>            | Reflective note.  |
| <ul> <li>Organises work effectively.</li> </ul>       | <ul> <li>Active involvement in managing a</li> </ul> | <ul> <li>IPCT committee participation</li> </ul>       | • Evaluation of clinical events (ECE) eg.               |
| <ul> <li>Works effectively with team</li> </ul>       | significant cross-infection or                       | <ul> <li>Active participation in committees</li> </ul> | setting agenda /minute taking / write                   |
| members to deliver the service.                       | laboratory incident.                                 | and working groups (specific tasks,                    | up / writing reports / evaluations.                     |
| • Takes responsibility for own actions.               | Active participation in an outbreak /                | taking notes, producing minutes).                      | <ul> <li>Evidence of active participation in</li> </ul> |
| <ul> <li>Reliable and conscientious.</li> </ul>       | incident committee                                   | <ul> <li>Local / Regional training.</li> </ul>         | and contribution to outbreak /                          |
| <ul> <li>Completes allocated tasks to a</li> </ul>    | <ul> <li>Active participation in</li> </ul>          | <ul> <li>Attending HIS Trainee Days.</li> </ul>        | incident control /guideline                             |
| satisfactory standard.                                | multidisciplinary guideline production               | <ul> <li>Attendance at HIS Foundation</li> </ul>       | development /committee business                         |
| <ul> <li>Communicates clearly verbally and</li> </ul> | <ul> <li>Involvement in committees (eg.</li> </ul>   | Course.  |   |
| in writing.   | Laboratory management team,                          | • Attendance at HIS Outbreak course.                   |   |
| <ul> <li>Understands the limits of own</li> </ul>     | antimicrobial stewardship team, water                | <ul> <li>Undertake management skills</li> </ul>        |   |
| knowledge and competence and seeks                    | management team)                                     | course.  |   |
| advice appropriately.                                 |  | Undertake assessment of personality                    |   |
|   |  | type / management style                                |   |
|   |  |  |   |
|   |  |  |   |
|   |  |  |   |