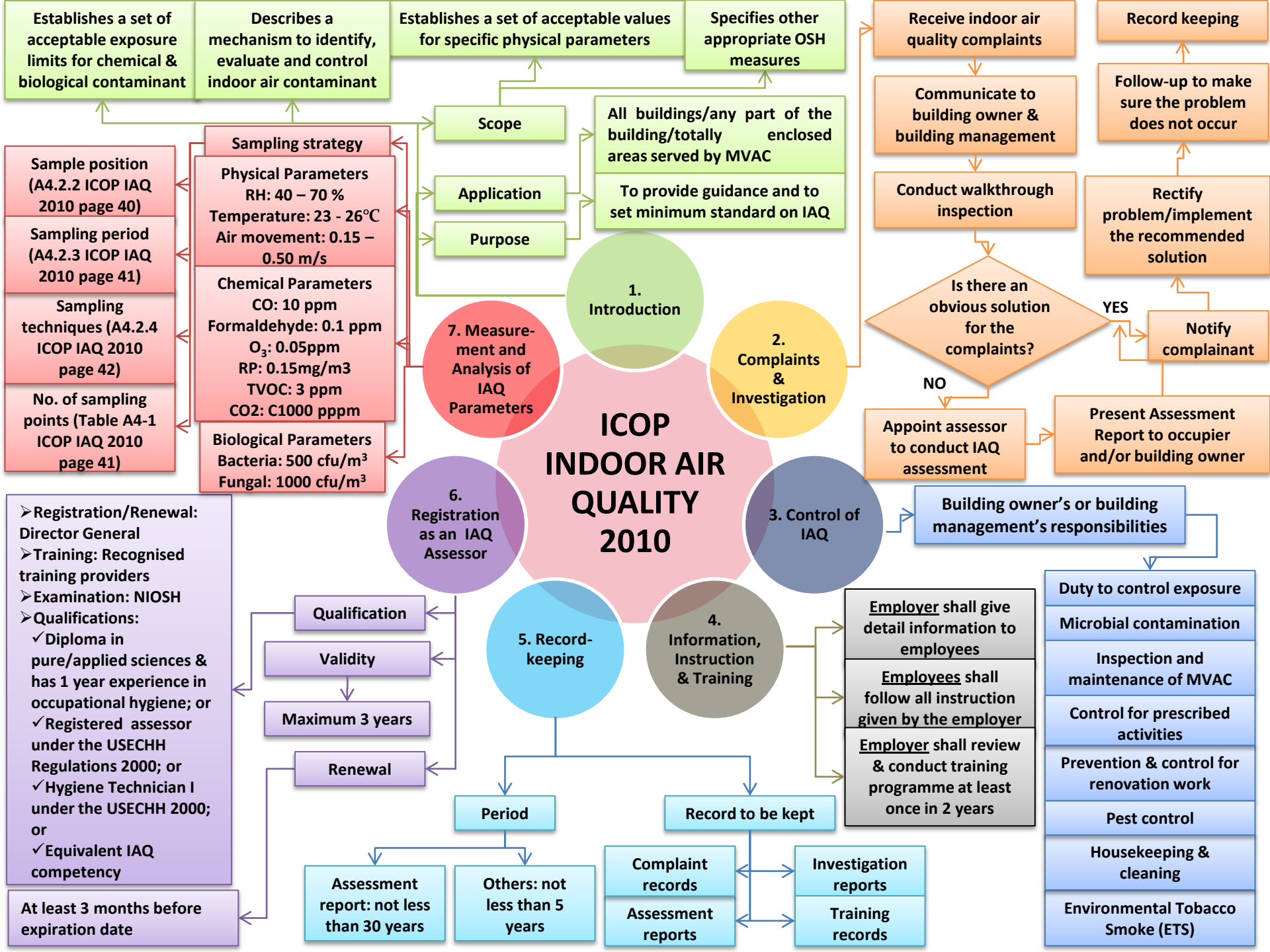
ICOP INDOOR AIR QUALITY 2010
1. Introduction
Establishes a set of acceptable exposure limits for chemical & biological contaminant
Describes a mechanism to identify, evaluate and control indoor air contaminant
Establishes a set of acceptable values for specific physical parameters
Specifies other appropriate OSH measures
Scope
Application
Purpose
All buildings/any part of the building/totally enclosed areas served by MVAC
To provide guidance and to set minimum standard on IAQ
2. Complaints & Investigation
Receive indoor air quality complaints
Communicate to building owner & building management
Conduct walkthrough inspection
Is there an obvious solution for the complaints?
YES
NO
Notify complainant
Appoint assessor to conduct IAQ assessment
Present Assessment Report to occupier and/or building owner
Record keeping
Follow-up to make sure the problem does not occur
Rectify problem/implement the recommended solution
3. Control of IAQ
Building owner's or building management's responsibilities
Duty to control exposure
Microbial contamination
Inspection and maintenance of MVAC
Control for prescribed activities
Prevention & control for renovation work
Pest control
Housekeeping & cleaning
Environmental Tobacco Smoke (ETS)
4. Information, Instruction & Training
Employer shall give detail information to employees
Employees shall follow all instruction given by the employer
Employer shall review & conduct training programme at least once in 2 years
5. Record-keeping
Period
Assessment report: not less than 30 years
Others: not less than 5 years
Record to be kept
Complaint records
Assessment reports
Investigation reports
Training records
6. Registration as an IAQ Assessor
Qualification
Validity
Maximum 3 years
Renewal
At least 3 months before expiration date
➢Registration/Renewal: Director General
➢Training: Recognised training providers
➢Examination: NIOSH
➢Qualifications:
✓Diploma in pure/applied sciences & has 1 year experience in occupational hygiene; or
✓Registered assessor under the USECHH Regulations 2000; or
✓Hygiene Technician I under the USECHH 2000; or
✓Equivalent IAQ competency
7. Measure-ment and Analysis of IAQ Parameters
Sampling strategy
Sample position (A4.2.2 ICOP IAQ 2010 page 40)
Sampling period (A4.2.3 ICOP IAQ 2010 page 41)
Sampling techniques (A4.2.4 ICOP IAQ 2010 page 42)
No. of sampling points (Table A4-1 ICOP IAQ 2010 page 41)
Physical Parameters
RH: 40 – 70 %
Temperature: 23 - 26℃
Air movement: 0.15 – 0.50 m/s
Chemical Parameters
CO: 10 ppm
Formaldehyde: 0.1 ppm
O_3: 0.05ppm
RP: 0.15mg/m3
TVOC: 3 ppm
CO2: C1000 pppm
Biological Parameters
Bacteria: 500 cfu/m^3
Fungal: 1000 cfu/m^3