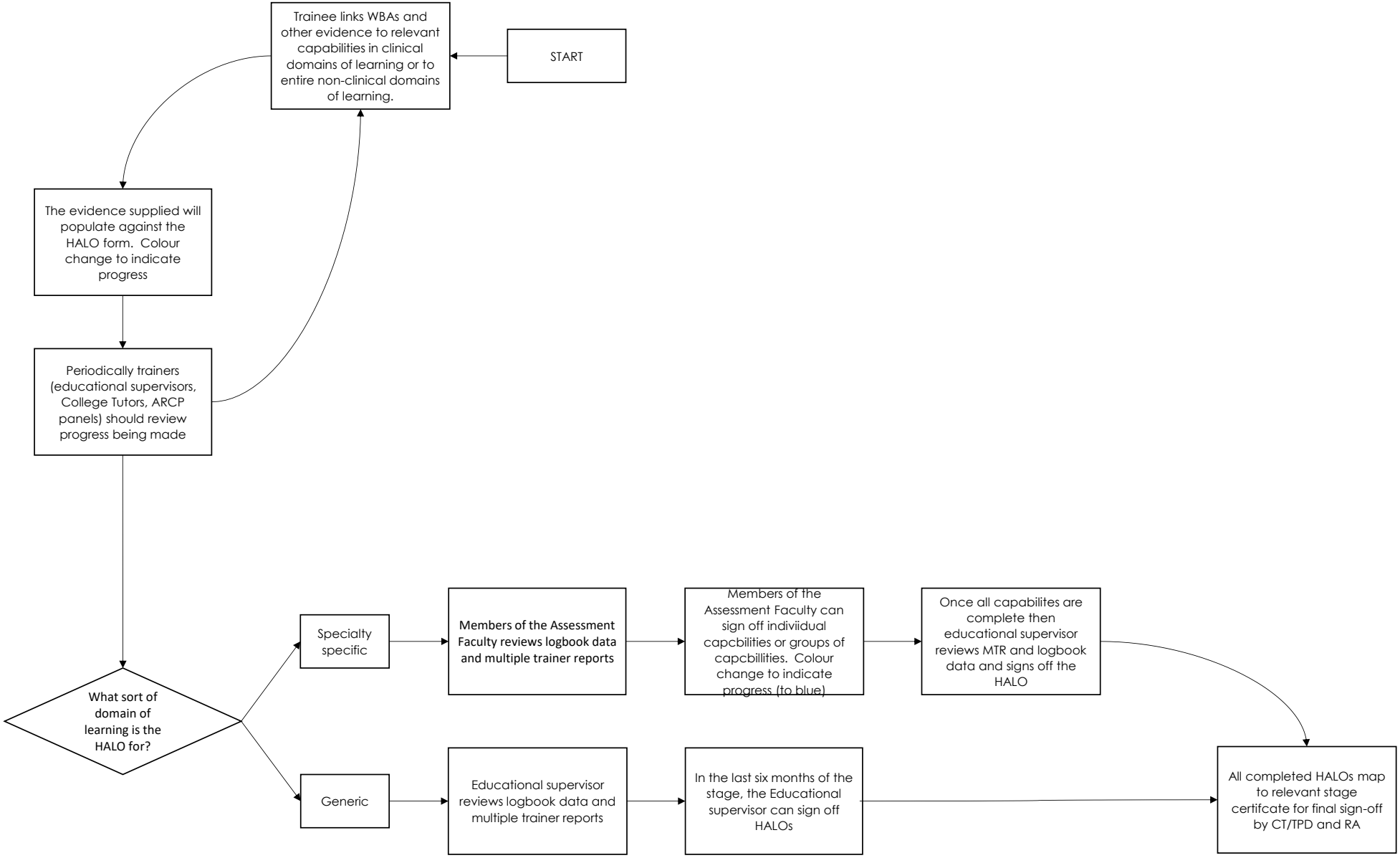HALO flowchart v1.1