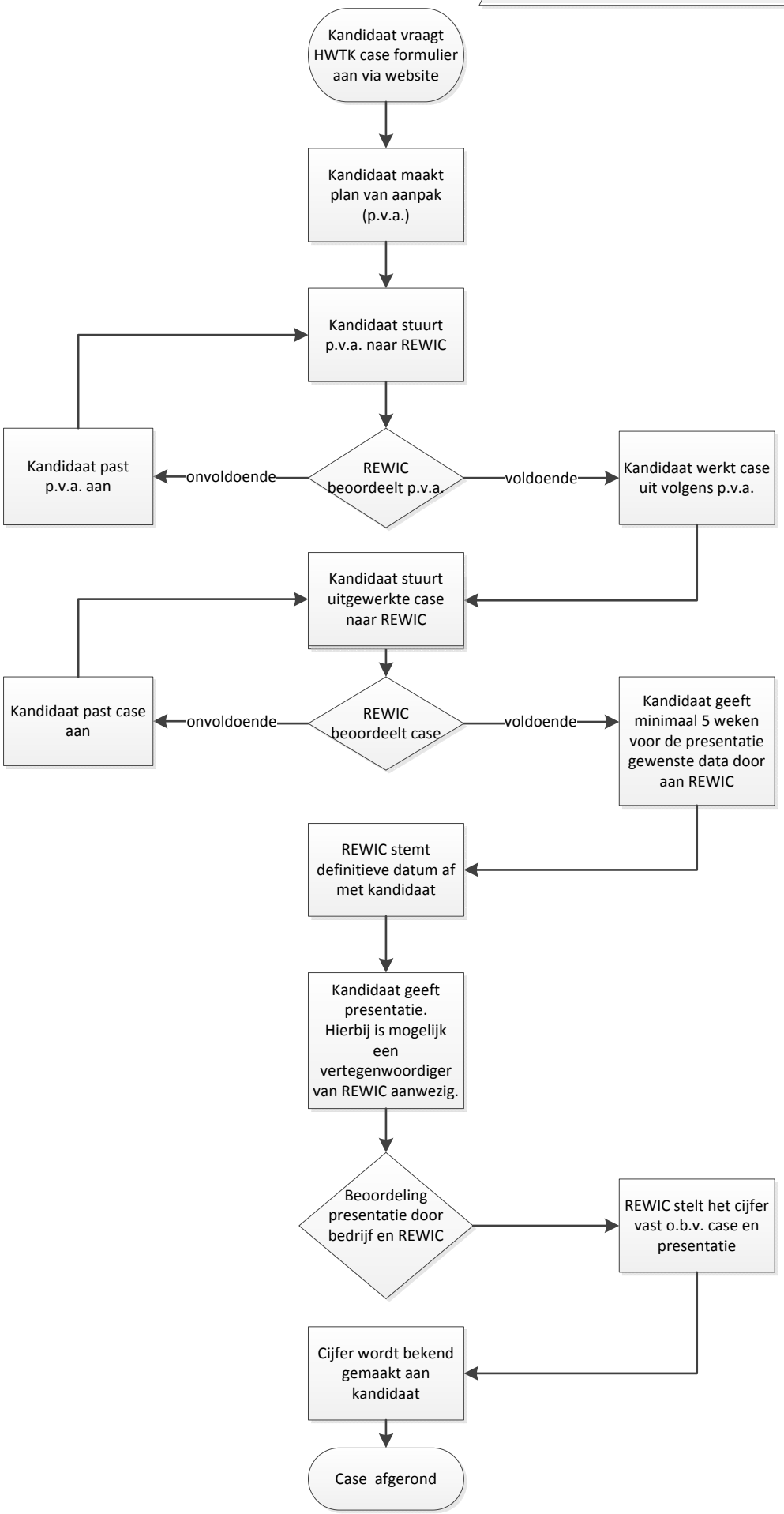STROOMSCHEMA HWTK CASES