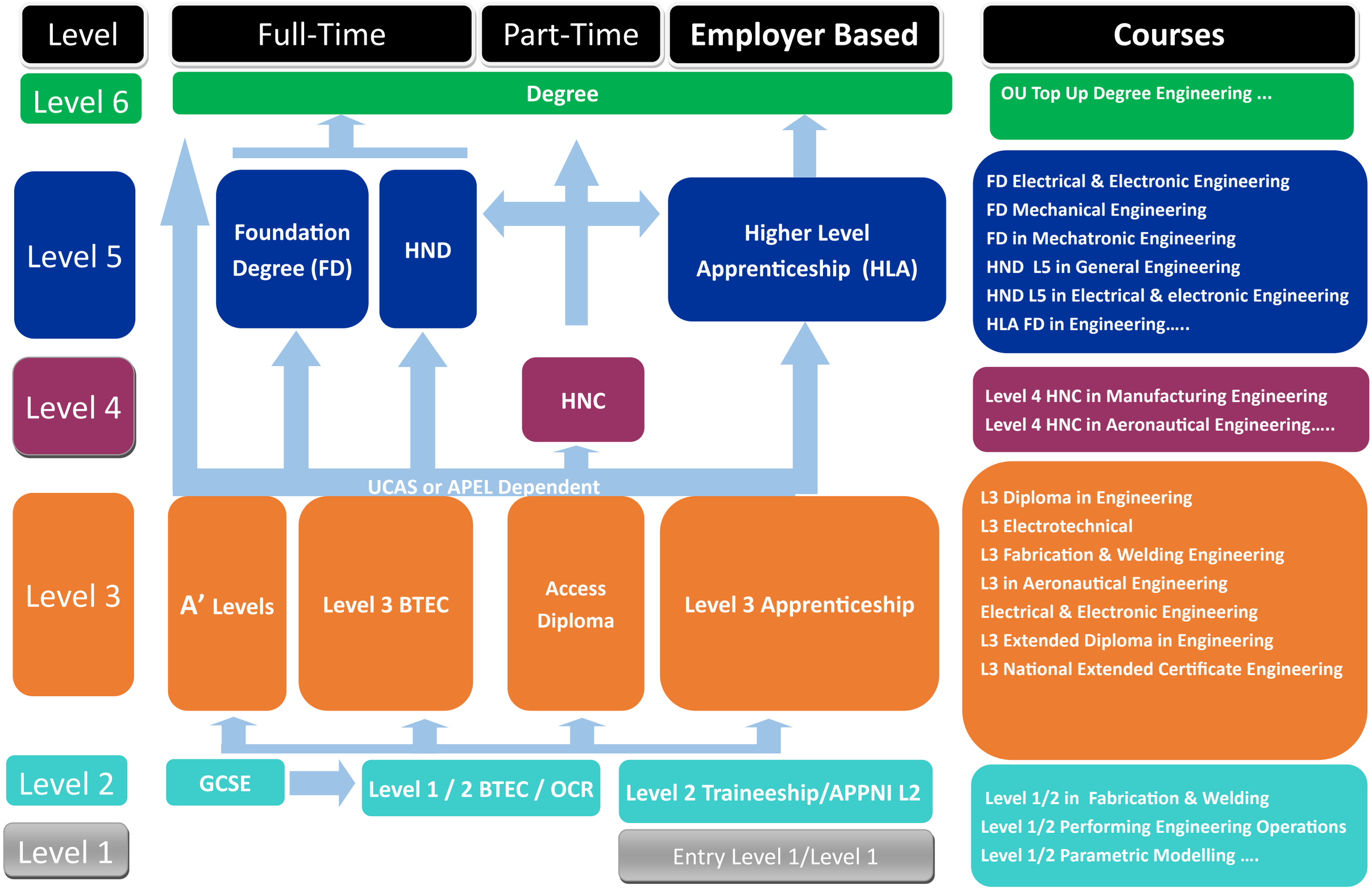Engineering Qualification Pathways