



Department  
for Business  
Innovation & Skills

RESEARCH

BIS RESEARCH PAPER NUMBER 240

Progression of Apprentices to Higher  
Education – 2<sup>nd</sup> Cohort Update

SEPTEMBER 2015

Prepared for the Department for Business, Innovation and Skills by the Centre for Leadership and Enterprise in the Faculty of Education and Health at the University of Greenwich.



**Authors:** Sharon Smith, Hugh Joslin and Jill Jameson  
Centre for Leadership and Enterprise  
Faculty of Education and health  
University of Greenwich  
Mansion Site  
Bexley Road  
Eltham  
London SE9 2PQ

The views expressed in this report are the authors' and do not necessarily reflect those of the Department for Business, Innovation and Skills.

Department for Business, Innovation and Skills  
1 Victoria Street  
London SW1H 0ET  
[www.bis.gov.uk](http://www.bis.gov.uk)

BIS Research Paper Number 240  
September 2015

# Contents

<b>Contents</b> .....	<b>1</b>
<b>Acknowledgements</b> .....	<b>5</b>
<b>Executive summary</b> .....	<b>6</b>
Defining terms.....	6
Different types of apprentice provider.....	6
Different types of higher education.....	7
A note about the figures .....	7
Headlines.....	8
Key results .....	8
Progression trends .....	8
Demographics.....	9
Success .....	10
Higher apprenticeships.....	10
<b>1. Introduction</b> .....	<b>11</b>
1.1 The complexities of tracking apprentices .....	11
1.2 Researching apprentice progression to higher education.....	12
1.2.1 Previous research on the progression of apprentices .....	12
1.2.2 Tracking apprentice progression longitudinally .....	13
1.3 Policy context .....	14
<b>2. Methodology</b> .....	<b>17</b>
2.1 Prior entry to higher education .....	17
2.2 First time entrants.....	18
2.3 Dataset matching.....	19

<b>3.</b>	<b>Progression of apprentices to higher education – headline figures .....</b>	<b>20</b>
3.1	Overall progression trends by age group .....	20
3.2	A longitudinal picture of apprentice progression.....	20
3.3	Cumulative progression by different cohorts into higher education.....	21
3.4	Comparative rates of progression across the cohorts .....	22
3.5	Progression of apprentices broken down by HE provider .....	23
<b>4.</b>	<b>Characteristics of advanced level apprentices .....</b>	<b>24</b>
4.1	Key characteristics of the advanced level apprentice cohorts in this study.....	24
4.1.1	Age and gender .....	24
4.1.2	Regional distribution of advanced level apprentice cohorts.....	25
4.1.3	Distribution of advanced apprentice cohorts across frameworks.....	25
4.1.4	Disadvantaged profile of the advanced level apprentice cohorts.....	26
4.1.5	Advanced level apprentice providers .....	27
4.1.6	Age profile of advanced level apprentice cohorts across frameworks .....	27
4.2	Progression from intermediate to advanced level apprenticeships.....	28
4.3	Progression of intermediate apprentices, through advanced level apprenticeships to HE30	
4.4	Previous experience of higher education and apprenticeships.....	31
<b>5.</b>	<b>Trends in the progression of advanced level apprentice cohorts 2006-07 to 2010-11 ..</b>	<b>32</b>
5.1	Immediate entrant progression trends.....	32
5.2	Trends in progression by region.....	34
5.3	Gender trends.....	35
5.4	Trends by framework .....	36
5.5	Demographic comparisons using POLAR3 .....	37
5.6	Trends by type of apprenticeship provider .....	38
5.7	Trends by higher education qualification type .....	39

5.8	Trends by higher education mode of study .....	39
5.9	Higher education provider trends (top 20 providers).....	40
<b>6.</b>	<b>Recent trends in progression to higher apprenticeships .....</b>	<b>42</b>
6.1	Overview of apprentice progression to higher apprenticeships .....	42
6.2	Frameworks.....	43
6.3	Gender .....	43
6.4	Regional differences .....	44
<b>7.</b>	<b>Detailed progression patterns of the 2006-07 apprentice cohort .....</b>	<b>45</b>
7.1	Progression for 2006-07 apprentices who are first time entrants to higher education.....	45
7.2	Progression by geography .....	46
7.3	Progression by framework .....	48
7.4	Timing of progression by framework .....	49
7.5	Framework and mode of study.....	50
7.6	Progression and type of apprenticeship provider .....	50
7.7	HE qualification and framework .....	52
7.8	Disadvantaged profile of advanced level apprentices and progression breakdown .....	53
7.9	Breakdown by POLAR3 and qualification aim.....	54
7.10	Breakdown by framework and POLAR3 .....	54
7.11	Region by POLAR3 group and higher education progression.....	55
7.12	Delivery of higher education provision and POLAR3 comparison .....	55
7.13	Higher education subject areas .....	56
<b>8.</b>	<b>Higher education success .....</b>	<b>58</b>
8.1	Degree achievement.....	58
8.2	Degree achievement and gender .....	58
8.3	Degree classification.....	59

8.4	Destinations of leavers from higher education .....	60
8.5	Destination activity .....	60
8.6	Destination salary band .....	60
<b>9.</b>	<b>Conclusions .....</b>	<b>62</b>
<b>10.</b>	<b>References.....</b>	<b>64</b>

# Acknowledgements

The authors would like to thank Vikki McAuley at the Department for Business, Innovation and Skills for managing the research and also to members of the Steering Group for their support and guidance. We would like to thank Dr Suzie Dent, Analytical Services Manager and the Analytical Services Team at HESA for their work on developing the methodology for this research. We would like to thank Mark Gittoes (Head of Quantitative Analysis for Policy at HEFCE) and his team at HEFCE for their assistance. We would like to acknowledge and thank Rachel Thompson for her input, especially for her work on identifying the tracked cohort.

# Executive summary

This report presents the findings of research undertaken for the Department for Business, Innovation and Skills (BIS) into the progression to higher education of advanced level apprentices over a seven year period. This is part of a longitudinal study whose first results were published in BIS Research Paper 107 (Joslin & Smith, 2013) and updated in BIS Research Paper 176 (Joslin & Smith, 2014). This report provides a further update for six cohorts of advanced level apprentices over the period between 2006 and 2012.

The research findings are based on the matching of ILR (Individualised Learner Record) datasets with HESA (Higher Education Statistics Agency) datasets between the years 2006-07 and 2012-13. They provide a detailed analysis of the nature of the progression of apprentices, trends in progression rates over time and as the matched records contain demographic information about the apprentices, they provide breakdowns by variables such as gender, age and domicile, and also data about where they progressed from and where they progressed to.

It should be noted that the findings published in this report provide an overall picture of apprenticeship progression at this point in time. As such, the period studied includes only **partial results for apprentices entering higher education in 2012**; a future cohort update could provide a fuller picture of the extent to which higher fees in 2012 may have affected progression for this group of work-based part-time learners and how the first major expansion of higher apprenticeships from 2012 impacted on their progression journeys. The period studied in this report also predates the significant changes to apprenticeships heralded in the Richard Review including the development of “Standards” through the work of the “Trailblazers”.

## Defining terms

The key results refer to different types of apprenticeship providers and also to the different ways in which higher education is funded. For the sake of clarity, explanations are given here:

### Different types of apprentice provider

In the period of the study, advanced level apprenticeships were delivered by different types of providers which are described here.

Provider of advanced level apprenticeships	Further description – each of these provider types contract with the Skills Funding Agency for the provision of Apprenticeships.
Private Training Providers	Private training companies who deliver a range of work based training programmes including apprenticeships.
Further Education Colleges	Colleges funded by the Skills Funding Agency and/or via HEFCE for prescribed higher education provision. Colleges deliver a wide range of full and part-time programmes including apprenticeships.
Businesses (Direct Grant)	Large private businesses that deliver apprenticeships
Public Sector	For example, local authorities, government departments and hospital trusts that co-ordinate and deliver apprenticeships.
Other	Charities and associations that co-ordinate and deliver apprenticeships.



## Different types of higher education

Higher education (HE) in England is delivered by providers including universities, FE colleges and since 2012, a number of private organisations. A key distinction for the purposes of this study is that between “prescribed HE” and “non-prescribed HE” which is described here:

Types of higher education in England	Description
<b>Prescribed higher education</b>	Delivered in universities and FE colleges with funding directed by the Higher Education Funding Council for England (HEFCE) <sup>2</sup> . The following qualifications are included: <b>First degrees</b> (Level 6) and <b>Other Undergraduate</b> (OUG) qualifications including <b>Higher National Certificates</b> (HNC) and <b>Certificates of Higher Education</b> at Level 4; <b>Higher National Diplomas</b> (HND), <b>Diplomas of Higher Education</b> and <b>Foundation degrees</b> at Level 5.
<b>Non-prescribed higher education</b>	Delivered in FE colleges with funding directed by the Learning and Skills Council (LSC) up to 2010 and since then by the Skills Funding Agency (SFA). Qualifications include <b>NVQ</b> programmes and <b>Professional Certificates</b> and <b>Diplomas</b> at Levels 4 and 5.

## A note about the figures

The report analyses the results of tracking five cohorts of apprentices from 2006-07 to 2011-12 who progressed into higher education between 2006-07 and 2012-13. To capture the complex nature of apprentice progression behaviour, the *tracked cohorts* in this study have been derived in a particular way (described in the section on Methodology) and it should be noted that the cohort numbers do not match directly across to the Statistical First Release (SFR) figures published by Data Services. The cohorts in this study are apprentices who have completed and achieved their framework but the cohort year identifies the academic year they **started** their apprenticeship. So, the 2006-07 cohort started their apprenticeship in this year but many are likely to have finished their framework in 2007-08 and some in 2008-09. The later cohort in 2011-12 started their apprenticeship in this year but are likely to have finished their framework between 2011-12 and 2013-14. A number of apprentices enter higher education in the year they started their advanced level apprenticeship and these are also picked up in the tracking.

In this latest cohort update, new data is presented exploring apprentice success rates in HE and the destinations of HE leavers into employment including their salary bands; these results reinforce the value of longitudinal tracking to investigate the educational trajectories of apprentices and how their journey compares to that of their peers who enter HE through traditional routes.

---

<sup>2</sup> Technically, the SFA can fund prescribed HE and it plans to when specified as part of a higher apprenticeship

## Headlines

**Numbers:** A total of **244,455** advanced level apprentices were tracked into higher education over 7 years (2006-07 to 2012-13). The numbers of advanced level apprentices aged 17-19 increased by 360 over the period, 20-24 year olds increased by 1,985 but the **25+** age group increased from **115** in 2006-07 to **25,015** in 2010-11, **17,775** of whom were female.

**Progression:** Between 2006-07 and 2012-13 a total of **35,940** advanced level apprentices progressed to HE. The progression rate for the 2006-07 cohort who were tracked into HE over 7 years was **19.3%**. **44%** of advanced level apprentices progress later, between 4 and 7 years after completing their apprenticeship. **68%** of the 2006-07 cohort progressed to part-time HE but this dropped to **50%** for the 2010-11 cohort.

**Higher apprenticeships:** Between 2009-10 and 2012-13, **5,195** of the advanced level apprentice cohort progressed to a higher apprenticeship.

**FE college or university:** **52%** of advanced level apprentices in 2010-11 progressed to study higher education in an FE college but universities are delivering HE to more apprentices than ever before.

**Apprentice characteristics:** **52%** of the 2006-07 advanced level apprentice cohort had previously been intermediate apprentices. **45%** of the 2010-11 cohort came from the most educationally disadvantaged parts of the country.

**Success:** **75%** of advanced level apprentices who started a First degree finished with an HE qualification (66% with a degree and 9% with a lower award) and **69%** went on to achieve a First or 2:1 honours degree (this compares to an all UK rate of **64%**).

## Key results

### Progression trends

- **19.3%** of the 2006-07 tracked apprentice cohort **progressed to higher education** when tracked for a total of seven years. This rate of progression is an increase on the seven year rate of 18.8% found for the 2005-06 cohort in the previous study in this series (Joslin & Smith, 2014).
- The pattern of progression to HE is very different to that of traditional full-time school and college leavers, the majority of whom progress the following year. **58%** of the advanced level apprentices who progress, do so within **3 years** of starting their apprenticeship but significantly, **42%** of them do so **4, 5, 6 or 7 years** later.
- Five cohorts between 2006-07 and 2010-11 were tracked for three years allowing like for like trend analysis. The total **numbers** of apprentices progressing to higher education over the three years **increased by 1,560** entrants from **3,890** for the 2006-07 to **5,450** for the 2010-11 cohort.
- However the research also shows that the overall three year **progression rate has dipped** over the five cohort years **from 11.2% in 2006-07 to 8.8% in 2009-10**. This

reduction is influenced by the significant increase in the numbers of apprentices **aged 25+**. The numbers of 25+ advanced level apprentices in our cohorts increased from **115, or 0.3%** of the total in 2006-07 to **25,015, or 40%** of the total in 2010-11.

- The progression rate for **25+** apprentices peaked at **7%** for the 2006-07 cohort dropping to **5.7%** for 2010-11 apprentices.
- The progression rate for 17-19 year old apprentices in 2008-09 peaked at **15.8%** dropping to **12%** for 2010-11 young apprentices.
- FE colleges deliver HE to a higher proportion of advanced level apprentices than universities but the gap has narrowed. For the early cohort in 2006-07, **63%** of apprentices progressed to HE in colleges but for the cohort in 2010-11 this had dropped to **52%**.
- **68.4%** of the 2006-07 cohort who progressed did so to **part-time** HE. This had dropped to **50.3%** for 2010-11, an indication perhaps that more advanced level apprentices are choosing to make a life change and progress to education on a full-time basis but the drivers for this are not investigated in this study.
- **52%** of the 2010-11 advanced level apprentice cohort had previously been intermediate apprentices and **7%** of these went on to higher education.
- **Higher education course types vary at framework level** so while **71.5%** of Active Leisure and Learning advanced level apprentices who progressed went onto study a First Degree, only **3.6%** of apprentice Engineers went onto this level of study. Most Engineering apprentices go onto Other Undergraduate (OUG) study, particularly HNC.
- While the advanced level apprentice tracked **population** has increased in every government office region in England, London had the highest increase where the cohort population increased by **+171%**, although this was from a low number base.
- London was the only region to see an increase in the **rate** of higher education progression between 2006-07 and 2010-11.

## Demographics

- Between the 2006-07 and 2010-11 cohorts, the **female** advanced level apprentice tracked population more than **doubled** but the male tracked population increased by only **29%**. Young male apprentice numbers only increased by **+3%** compared to **+23%** for young females. Females were more likely to progress 4-7 years from the start of their apprenticeship than males.
- **22%** of advanced level apprentices who entered HE were classified as coming from the **most educationally disadvantaged** parts of the country (POLAR2 Q1). This compares to **11%** for all young undergraduate entrants and **12%** for mature undergraduate entrants (HEFCE, 2012). Apprenticeships clearly play an important role in social mobility.

## Success

- **75%** of apprentices who started a first degree finished with a HE Qualification, **66%** with a first degree and **9%** finished with a lower award. This compares with a national rate of **82%** (**79%** first degree and **3%** lower award).
- **69%** of advanced level apprentices who went on to a first degree achieved a **First or 2:1** honours degree. This compares to an all UK rate of **64%** (HESA, 2012).
- **82%** of HE leavers from the apprentice cohort were in employment 6 months following their degree, higher than the all England HE leaver rate of **76%** and a further **12%** were in further study. The unemployment rate was low at **2.4%**. The average salary of the apprentice HE leaver cohort was higher than that of HE leavers generally.

## Higher apprenticeships

This study was able to capture in the ILR flagged higher apprentices for 2008-09, 2009-10 and 2010-11.

- The number of advanced level apprentices progressing on to **Higher Apprenticeships** increased from **1,130** to **1,630** between 2008-09 and 2010-11 with a progression rate for the 2010-11 cohort at 2.6%, slightly higher than the 2.3% rate for 2008-09 apprentices.
- The majority of tracked higher apprentices were on an **Accountancy** framework although in 2010-11 numbers on Business Administration, Management and Health & Social Care frameworks were increasing. The investment in higher apprenticeships from 2012 onwards will change this. In 2009-10 there were only five higher apprenticeship frameworks (Engineering Technology, ICT, Accountancy, Purchasing and Supply and Contact Centres). In 2015 there are, at the last count, over 400 plus 24 new higher apprenticeship Standards.
- The North West had the highest progression rates to higher apprenticeships at around **3.4%**. London had the lowest at around **1.5%**.

# 1. Introduction

This report presents the findings of research undertaken for the Department for Business, Innovation and Skills (BIS) into the progression to higher education of advanced level apprentices over a seven year period. This is part of a longitudinal study whose first results were published in BIS Research Paper 107 (Joslin & Smith, 2013) and updated in BIS Research Paper 176 (Joslin & Smith, 2014). This report provides a further update for six cohorts of advanced level apprentices over the period between 2006 and 2012.

The research findings are based on the matching of ILR (Individualised Learner Record) datasets with HESA (Higher Education Statistics Agency) datasets between the years 2006-07 and 2012-13. They provide a detailed analysis of the nature of the progression of apprentices, trends in progression rates over time and as the matched records contain demographic information about the apprentices, they provide breakdowns by variables such as gender, age and domicile, and also data about where they progressed from and where they progressed to.

To capture the complex nature of apprentice progression behaviour, the *tracked cohorts* in this study have been derived in a particular way (described in the section on Methodology) and it should be noted that the cohort numbers do not match directly across to the Statistical First Release (SFR) figures published by Data Services.

## 1.1 The complexities of tracking apprentices

The cohorts in this study are apprentices who have completed and achieved their framework but the cohort year identifies the academic year they started their apprenticeship. So, the 2006-07 cohort started their apprenticeship in this year but many are likely to have successfully completed their framework in 2007-08 and some in 2008-09. The later cohort in 2011-12 started their apprenticeship in this year but are likely to have finished their framework between 2011-12 and 2013-14. An added complication is that some advanced level apprentices have pre-existing Level 3 qualifications and they will enter higher education in the same academic year as their cohort year. The reasonably substantial numbers of these apprentices are the reason that we track progression of apprentices from their cohort year and in the reports in this series, we call “immediate”, progression, that which takes place over three years from the start year.

It is clear that in the period of our study, some frameworks took less time to complete and it might be that these apprentices are older and already in work - a fact picked up in the Richard Review (Richard, 2012) whose recommendation was implemented by the previous government where it established a minimum duration for an apprenticeship along with the stipulation that an apprentice had to be training in a **new** job. (BIS, 2013).

These factors contribute to the complexity of looking at apprentice progression and they have been compounded by the huge increase in **25+** apprentices in our cohorts, from **115, or 0.3%** of the total in 2006-07 to **25,015, or 40%** of the total in 2010-11. Much of this increase has been in service frameworks such as Customer Service and Business Administration providing the possibility for many of these apprenticeships to be more “restrictive” than “expansive” (Fuller & Unwin, 2014). The importance of this is that

expansive apprenticeships are more likely to involve learning that supports progression both in career terms and educationally. Also recent research by Ipsos MORI evaluating apprenticeships from both learner and employer perspectives (Higton, Emmett, & Halliday, 2014) and (Colahan & Johnson, 2014), provides very useful contextual information about progression. This research shows, for example, that apprentices are more likely to view their apprenticeship as a route to a career in what they call the “older” frameworks like Engineering and Construction, and that these frameworks at Level 3 are also characterised as having the greatest amount and longest duration of training. Employers with advanced level apprentices in these frameworks as well as Health and Social Care were also more likely to offer a further qualification including higher apprenticeships, HNCs, Foundation degrees and degrees. They also point out that entrants to the “traditional” apprenticeship frameworks were more likely to have joined their employers as an apprentice and that apprentices on “newer” frameworks were more likely to be internal recruits.

Tracking the progression of apprentices is considerably more complex than school and college leavers who enter HE mostly in the academic year following achievement of their A levels and BTEC qualifications.

It should be noted that the findings published in this report provide an overall picture of apprenticeship progression at this point in time. As such, the period studied includes only **partial results for apprentice starts in 2010-11 and for those who enter HE immediately following their framework completion, in 2012**; a future cohort update will provide a fuller picture of the extent to which higher fees in 2012 may have affected progression for this growing group of work-based part-time learners and how the first major expansion of higher apprenticeships in 2012 impacted on their progression journeys. The period studied in this report also predates the significant changes to apprenticeships heralded in the Richard Review (Richard, 2012) including the development of the new apprenticeship “Standards” through the work of the Trailblazers (BIS, 2014).

## 1.2 Researching apprentice progression to higher education

In this report, the progression rate of advanced level apprentices is established at two points. The “immediate” progression rate is calculated as being the sum of the first three years from the cohort start date. For example for the 2006-07 cohort, it includes numbers progressing in 2006-07, 2007-08 and 2008-09 and the rate established was **11.2%**. The other rate is where the cohort is tracked for the maximum number of years possible in the scope of the study, so the first cohort, 2006-07 is actually tracked longitudinally to 2012-13 and by this means we can establish that over the course of 7 years, 19.3% of the apprentices from the 2006-07 cohort actually progressed to higher education. Longitudinal tracking is therefore vital to establishing the way that apprentices progress with substantial numbers progressing to higher education several years after their apprenticeship. This reflects the fact that behind the numbers are real people living their lives: working, moving up the career ladder or deciding to change direction, having families, becoming unemployed, deciding to continue their education to enter a professional occupation.

### 1.2.1 Previous research on the progression of apprentices

There is previous data available which sketches a broad picture of, and often a concern about, the progression of apprentices into higher education. Research carried out by UVAC in 2005 on apprenticeship progression (Anderson & Hemsworth, 2005) suggested

that progression from advanced level apprenticeships to higher education was poor. Six years ago, the Skills Commission's inquiry into apprenticeships (Skills Commission, 2009) and HEFCE's report on apprenticeship progression (HEFCE, 2009) indicate that this situation remained largely unchanged. This was confirmed in a UKCES report on vocational progression (UKCES, 2010) where the rate of progression of apprentices quoted was 6%. At the time, this compared with a 40% progression rate of BTEC learners (HEFCE, 2007) and a 90% progression by A level learners (Carter, 2009).

### 1.2.2 Tracking apprentice progression longitudinally

As described earlier, this research looks at progression from the point when advanced level apprentices starts their framework. They are then tracked from that point into higher education over as many years as the study allows to the maximum of 7 years for the 2006-07 cohort. This is an important change to the methodology of tracking apprentices as it takes into account the roll-on, roll-off nature of apprenticeships where there is no such thing as an academic year. Longitudinal tracking reveals the very different journeys that significant numbers of apprentices (nearly 20%) take in progressing to higher levels.

Much of the debate about apprentice progression has focused on the need for there to be more parity of esteem between traditional full-time academic and vocational routes and the work-based routes that apprentices take. However, the Ipsos MORI research shows that apprentices have a variety of motivations including greater job security, earning while learning, entering and progressing in a career, higher earnings and it being a necessary component to the job (Higton, Emmett, & Halliday, 2014). It is not perceived to be an alternative route to higher education and yet, nearly one in five do eventually take this step.

Another aspect of this study is that we identify first time entrants to higher education by interrogating earlier higher education datasets to see whether an entrant had previous higher education experience. This is important because a recent BIS research study (IFF Research, 2011) found that around a half of Level 3 apprentices had already studied at this level before. The inference is that many advanced level apprentices may already have achieved the necessary qualifications to enter a higher education programme, though perhaps not in the subject of their choice. Because we are focused on apprenticeships themselves as currency for HE progression, we have focused our research on apprentices who are first time entrants to HE.

As a study of the progression of apprentices, this research can also be seen through a different lens as a study of the progression to higher education of a very large sample of **part-time work-based learners** aged 17+. Not all part-time work-based learners are apprentices, but at level three, advanced level apprentices make up a large and increasing proportion of them and the research show that the majority of them who go on to study higher education, do so part-time. It should be noted that during the period of our study, the proportion of apprentices progressing to **part-time HE** has dropped from a high of **70.5%** in 2007-08 to **50.3%** in 2010 but because the figures for progression from 2011-12 to higher education in 2012-13 are still partial, this study is not yet able to shed useful additional light on the large national drop-off in part-time higher education student numbers from 2011 onwards (HEFCE, 2014).

Finally, this report provides an overview that will often pose new questions as it attempts to answer others. It has already been said that the data provides the opportunity for much

more in-depth and specific analysis than is published in this report and more can be learned from it about the progression behaviour of these learners from a sectoral, regional, demographic and institutional perspective. An example of a more detailed regional drill down can be found in a report based on the 2013 data sets on apprenticeship progression in London (Joslin & Smith, 2013b).

### 1.3 Policy context

The patterns of progression to higher education of apprentices, the numbers and the trends are influenced by the context of policy changes during and either side of the period as well as by the impact on people's lives of realities like the economic recession. The following timeline is offered to highlight some contextual factors providing a setting for the progression journeys apprentices were making during the period. Picked out are reports and events relating to the overall context of widening participation, higher education, vocational education, universities, FE colleges and apprenticeships.

Year	Policy developments
1997	Dearing Report published (Dearing, 1997) recommending the development of Other Undergraduate programmes in FE colleges
2003	Foundation Degree Forward (FdF) established to promote Foundation degrees set up in 2001/2
2004	University fees rise to £3,000 pa Aimhigher set up to increase widening participation Office for Fair Access (OFFA) set up to monitor fair access to higher education
2005	First Lifelong Learning Networks (LLNs) set up to improve progression rates to higher education for vocational students including apprentices National Student Survey begins
2006	Higher Education Funding Council for England (HEFCE) Consultation on HE in FE colleges published (HEFCE, 2006) Train to Gain starts Advanced Vocational Certificate of Education (AVCE) qualifications end Leitch Report published (Leitch, 2006) Supporting Professionalism in Admissions (SPA) set up
2007	Department for Innovation Universities and Skills set up World Class Skills – Implementing the Leitch Review of Skills published (DIUS, 2007)
2008	Equivalent or Lower Qualifications (ELQ) policy introduced Qualifications and Credit Framework (QCF) established Connexions services transferred to Local Authorities 14-19 Diplomas start Start of economic recession Start of decline in part-time HE numbers



Year	Policy developments
<b>2009</b>	Department for Business, Innovation and Skills (BIS) set up National Apprenticeship Service set up Many LLNs close HEFCE request for HE Strategies from FE colleges Unleashing Aspiration report published (Panel on Fair Access to the Professions, 2009) Higher Ambitions published (BIS, 2009a) Skills for Growth published (BIS, 2009b) Unemployment rate peaks (Oxford Economics, 2014, p. V)
<b>2010</b>	Coalition government comes to power Learning and Skills Council (LSC) closes Young People's Learning Agency (YPLA) and Skills Funding Agency (SfA) established Train to Gain closes 14-19 Diplomas end Browne Review of higher education funding published (Browne, 2010)
<b>2011</b>	Aimhigher programme closes Foundation Degree Forward closes New Challenges, New Chances published (BIS, 2011) Students at the Heart of the System - the Higher Education White Paper published (BIS, 2011a) Higher Apprenticeship Fund announced to support the development of higher apprenticeships First Specification of Apprenticeship Standards in England (SASE) including higher apprenticeship standards published (BIS, 2011b) Educational Maintenance Allowance (EMA) ends Introduction of 16-19 bursaries
<b>2012</b>	Higher Education fees rise to up to £9,000 pa and student number controls include Level 3 AAB grade exclusion and core and margin numbers, the majority of which go to FE colleges Part-time higher education loans start with no student number controls on part-time numbers National Careers Service formed - statutory responsibility for impartial careers advice passes to schools YPLA replaced by the Education Funding Agency (EFA) Richard Review of Apprenticeships published (Richard, 2012) Higher Apprenticeship Fund projects start Employer Ownership Pilots start Marked decline in part-time HE numbers down 42% from 2008 figures (Oxford Economics, 2014, p. 10)

Year	Policy developments
<b>2013</b>	<p>24+ Advanced Learning Loans start for Access courses and non-prescribed HE</p> <p>New SASE document setting out new standards for higher apprenticeships at Levels 4, 5, 6 and 7 published (BIS, 2013)</p> <p>Apprenticeship reforms announced including Trailblazers</p> <p>£40 million announced to fund 20,000 higher apprenticeship starts over 2 years</p> <p>Participation age raised to 17</p> <p>Study Programmes introduced for all 16-19 year olds</p>
<b>2014</b>	<p>Participation age raised to 18</p> <p>First Trailblazer standards published</p> <p>Announcement that HE within higher apprenticeships to be government funded at an additional £20 million over 2 years</p> <p>First apprentices start on new standards</p>

## 2. Methodology

The research findings in this report are based on the matching of ILR (Individualised Learner Record) datasets 2006-07 to 2011-12 with HESA (Higher Education Statistics Agency) datasets and HE records in the ILR. They provide a detailed analysis of the nature of the progression of apprentices and trends in progression rates over time. Since the matched records contain demographic information about the apprentices such as gender, age and domicile and also data about where they progressed from and where they progressed to, there are a wide set of variables that can be compared and this report provides a selection. The findings published in this report provide an overall picture of apprenticeship progression at this point in time.

The start date, rather than the end date, is used as a census point so that the timing of higher education entry can be better understood. It acknowledges that apprentices are rolled on and rolled off an apprentice framework and therefore the start date is deemed the most appropriate census date to determine the year of the cohort, especially as some apprentices appear to commence study of a higher education qualification in the same year as they are completing their framework. Just fewer than 60% of advanced level apprentices complete their framework in two years, although achievement and completion is dependent on the framework structure and how long individual learners take to complete their work based learning. For example, around 60% of the 2006-07 cohort were found to have finished during 2007-08 and a further 24% finished in 2008-09. **Although the start date is used as a cohort census date, this study is based on advanced level apprentices who have completed and achieved their framework.**

Tracking back, as well as forward, allows an investigation into the fluid nature of advanced level apprentice participation in higher education and shows the extent to which some apprentices already have experience of higher education when they first start their apprenticeship. Tracking forward to HESA datasets for advanced level apprentices who have been identified as having no previous higher education experience, enables the study to explore real progression from Level 3 to Level 4. Moreover, linking the cohort to higher education datasets longitudinally over a number of years, allows an investigation into the timing of entry to higher education. For example, all those advanced level apprentices who completed (and were identified as achievers) in 2006-07, were linked to seven years of higher education datasets in 2006-07, 2007-08, 2008-09, 2009-10, 2010-11, 2011-12 and 2012-13. Advanced level apprentices who start their Level 4 qualification in the same year as their advanced level apprenticeship are counted as first time entrants and these records are included in the progression rates, categorised, with the following two years, as **immediate progression**.

In this second cohort update, longitudinal tracking also included a link to the **Destinations of Leavers in Higher Education (DLHE) survey** to explore employment destinations.

### 2.1 Prior entry to higher education

The HESA datasets with records of prescribed higher education learners were tracked from 2003-04 although students who had entered higher education from 1999 were also flagged within the dataset. Tracking back to datasets prior to commencement of the apprentice framework provides a more accurate picture of apprentice prior participation in

higher education. For this update, apprentices who were identified as already having progressed to Higher Education were removed from the dataset.

## 2.2 First time entrants

In this report, higher education progression patterns following completion and achievement of apprenticeships are presented for five cohorts of learners from 2006-07 through to 2011-12. The first cohort tracked, 2006-07, has been linked to seven years of higher education datasets and this provides a rich picture of timing of progression.

Immediate progression is classified as those apprentices who enter higher education in the three years from the start of their apprenticeship and given that the average duration of an advanced level apprenticeship is 19 months (Higton, Emmett, & Halliday, 2014, p. 27), these three years capture students who enter HE across the period. However, it is acknowledged that it may exclude those student who started an apprenticeship but who take longer than to complete it and who may enter HE four years after starting. It is recognised that the latest cohort tracked in 2011-12 is not a complete cohort in the sense that many apprentices who started their apprenticeship would not have completed their framework at the census point of this data study and the low population of this cohort reflects this. Furthermore, this cohort have only been partially tracked for two years in this update. This illustrates the importance of longitudinal tracking which is necessary if we want to understand progression patterns for work based learners. The following table illustrates the longitudinal matching:

**Table 1: Cohort matching to establish progression**

Advanced level apprenticeship start	Advanced level apprentice likely completion	Higher education datasets (HESA and ILR)						
		2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13
<b>2006-07</b>	Between 2006-07 and 2008-09	Immediate						
<b>2007-08</b>	Between 2007-08 and 2009-10		Immediate					
<b>2008-09</b>	Between 2008-09 and 2010-11			Immediate				
<b>2009-10</b>	Between 2009-10 and 2011-12				Immediate			
<b>2010-11</b>	Between 2010-11 and 2012-13					Immediate		
<b>2011-12*</b>	Between 2011-12 and 2013-14						Immediate	

\* many apprentices who started their apprenticeship in this year will not have finished it when the data linking took place in 2013-14 and so this cohort is “incomplete”.

## 2.3 Dataset matching

Two datasets were used to undertake the tracking exercise: the Individualised Learner Record (ILR) for students recorded as advanced level apprentices in 2006-07, 2007-08, 2008-09, 2009-10 and 2010-11 and 2011-12 and the Higher Education Statistics Agency (HESA) dataset for entrants to publicly funded higher education institutions in the United Kingdom during 2006-07, 2007-08, 2008-09, 2009-10, 2010-11, 2011-12 and 2012-13.

The Data Service provided records on learners on an advanced level apprentice programme including name, date of birth, postcode, gender, and framework. Two matching exercises were undertaken to obtain the total number of learners who entered higher education study:

- ILR Level 3 apprentice data to HESA student data to identify FE Level 3 apprentices progressing to prescribed higher education study **and**
- ILR Level 3 apprentice data to ILR Level 4 student data to identify FE Level 3 students progressing to non-prescribed higher education study in FE

The absence of a unique learner number, which follows students from one provider to another, means that individual students were tracked within, and through, each of the datasets using a number of personal characteristics. A fuzzy matching exercise was undertaken by HESA where for each final year Level 3 apprentice in the ILR dataset, the name, date of birth, postcode and gender was used by HESA to match against each year of their dataset. The ILR was matched to HESA datasets between 2003-04 and 2012-13. This enabled identification of students who were already in higher education prior to commencement of their advanced level apprenticeship and these records were removed from the data. For first time entrants, this meant that the 2006-07 cohort was matched against seven years of HESA data: 2006-07, 2007-08, 2008-09, 2009-10, 2010-11, 2011-12 and 2012-13. HESA data for matched students on their first year of programme were returned including: higher education study year, higher education level, higher education subject group, higher education mode, higher education institution and higher education campus.

Similarly, for each advanced level apprentice completer a matching exercise was undertaken with the subsequent years FE Level 4 student data using either the ILR student unique reference, or name, date of birth, postcode and gender. Fuzzy matching using all four apprentice identifiers such as full name, date of birth, postcode and gender is fairly straightforward but sophisticated matching techniques were employed to match records where there were slight differences, e.g. name spelling.

Finally, the matched HESA dataset was then joined back to the ILR dataset so that for each matched record the following profile was obtained for each advanced level apprentice student who progressed: FE Level 4 study year, provider, student name, student age band, student post code, student mode, apprentice framework and higher education study year, higher education location, higher education Institution, higher education campus, higher education study level and higher education mode.

### 3. Progression of apprentices to higher education – headline figures

The overall findings for advanced level apprentices progressing into higher education for each of the cohorts are provided in this section.

#### 3.1 Overall progression trends by age group

Table 2 shows the volumes of the advanced level apprentices in the first and last full cohorts and the number who progressed by age group. It highlights the growth in the number of advanced level apprentices during the period (**27,240**) and it shows that the major growth has been with mature students aged 25+. The table also shows that the numbers entering higher education have increased: overall **1,555** more entered higher education from the 2010 cohort than from the 2006 cohort and the majority of this increase in HE numbers has been with 25+ students which reflects the growth in the population of this group of apprentices. Young apprentice numbers to HE dropped very slightly.

**Table 2: Numbers – 2006-07 and 2010-11 tracked population and higher education entrants**

Age	2006-07 Advanced level apprentices		2010-11 Advanced level apprentices		Difference 2006-07 – 2010-11	
	Tracked population	Number entering higher education	Tracked population	Number entering higher education	Tracked population	Number entering higher education
17-19	23630	2940	23990	2905	360	-35
20-24	11125	945	13110	1110	1985	165
25+	115	10	25015	1430	24900	1420
<b>Total</b>	<b>34870</b>	<b>3895</b>	<b>62110</b>	<b>5450</b>	<b>27240</b>	<b>1555</b>

#### 3.2 A longitudinal picture of apprentice progression

Table 3 shows the cumulative rates of progression into higher education for each of the six cohorts of apprentices. It tracks in-year progression where apprentices progress to higher education in the same year as they start their apprenticeship and it shows the numbers progressing for each subsequent year. This pattern of progression of apprentices must be set in the context of their lives – these are people in work and on completion of their advanced level apprenticeship, there may be pressure on them to operate at the technician level they have been trained for. However the rapid pace of change in some industries and the requirements of regulatory frameworks in others will influence decisions of both employees and employers to undertake higher education. The fact that progression rates are still high 2-3 years after completion shows that for many decisions about higher education are taken later and the lower, but still fairly substantial numbers progressing after four and five years on show this pattern. These numbers may also reflect

those students who decide to take another career pathway, or a different step in their existing career such as gaining management responsibilities.

This table shows that when tracked for seven years, apprentices in the 2006-07 cohort progressed at the rate of 19.3%. It also shows that for those cohorts, where three year tracking is possible, the ‘immediate’ progression rate over the period falls from **11.2%** to **8.8%** but further analysis in the report shows the contributing factors for this decrease are particularly the large increase in the volume of 25+ advanced level apprentices over these years and the fact that this group of learners have a lower progression rate than younger apprentices. Another contributory factor for the lower rate of progression for the 2010-11 cohort is likely to be that many of these students would normally have progressed in 2012-13 (the year following completion year for some of this cohort) and this was the year that higher fees were introduced in HE which was reflected by the fall in the number of entrants to HE across England. This is illustrated in Figure 1.

**Table 3: Longitudinal progression of advanced level apprentices**

Advanced level apprentice cohort start year	Population	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	3 years tracking		All tracked to date		
		Number							HE immediate progression	% HE progression	Total number to HE	% HE progression	Number of years tracked
2006-07	34870	420	1325	2145	1040	835	590	370	3890	11.2%	6725	<b>19.3%</b>	7 yrs
2007-08	40785		495	1850	2430	1130	825	560	4775	11.7%	7290	<b>17.9%</b>	6 yrs
2008-09	49215			1110	2095	2610	1235	775	5815	11.8%	7820	<b>15.9%</b>	5 yrs
2009-10	57475				1300	2430	2540	1155	6275	10.9%	7430	<b>12.9%</b>	4 yrs
2010-11	62110					1110	2735	1610	5450	8.8%	5450	<b>8.8%</b>	3 yrs
2011-12	13925*						515	710	na	na	1225	<b>8.8%</b>	2 yrs
<b>Total</b>	<b>244455</b>	<b>420</b>	<b>1820</b>	<b>5105</b>	<b>6865</b>	<b>8115</b>	<b>8440</b>	<b>5180</b>	<b>26205</b>		<b>35940</b>		

\*NB - It takes most advanced level apprentices up to two years to complete their framework and so this population does not include those who started in 2011 but had not yet completed their framework when the data was linked. The cohort populations will change in updates as apprentices who complete their framework are included in the tracking study.

### 3.3 Cumulative progression by different cohorts into higher education

Year on year numbers of apprentices from different cohorts are shown in the ‘Total’ row at the bottom of Table 3 and they clearly indicate the increasing numbers of apprentices entering higher education over the period of the study. Cumulatively nearly **36,000** of the advanced apprentices in these cohorts entered HE and these totals will be larger when

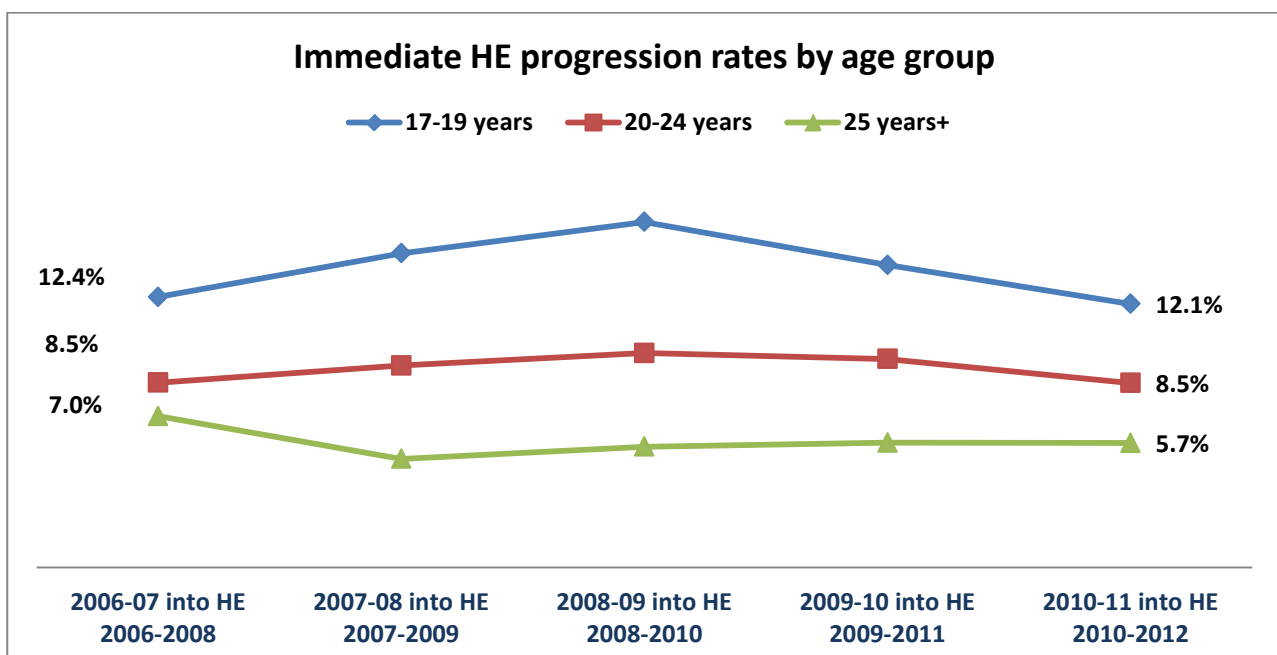
both the continuing progression of apprentices who started prior to 2006-07 are added and the later cohorts include more completers. This pattern of progression will be of interest to HE institutions wishing to recruit apprentices showing as it does the importance of reaching out to people in work who finished their apprenticeships several years ago.

Previously, we have stressed the incompleteness of the progression figures for the 2011-12 cohort and the need to see what the figures look like by tracking again next year. By referring back to the same table in last year’s cohort update in BIS Research Paper 176 (Joslin & Smith, 2014, p. 22), it is possible to see how the latest cohort changes in updates. For example, in paper 176, for the latest cohort tracked was 2010-11, the population was **26,430** and **465** HE entrants were found in 2011-12. With this update, the 2010-11 population has increased to **62,110** as more achievers are included and the number of HE entrants from this cohort in 2011-12 is now **1,110**. This shows the incompleteness of the progression figures for the latest cohort and also illustrates the importance of longitudinal tracking for work based learners, where framework achievement is across different durations and where there are complex patterns of progression at framework level.

### 3.4 Comparative rates of progression across the cohorts

Figure 1 shows immediate higher education progression rates for each of the five cohorts tracked for three years into higher education by age group. It clearly illustrates the stable progression rate of the younger age group compared to a falling progression rate for the older 25+ age group. There has been a particular growth in the number of advanced level apprentices 25+ but higher education progression trends show that with this growth, the proportion of students entering higher education has not been maintained. It is noted that although the number of younger advanced level apprentices has also grown across the tracked cohort years, albeit to a lesser extent, the higher education progression rate has remained stable (as it has for the 20-24 age group).

**Figure 1: Immediate higher education progression rates by age group**

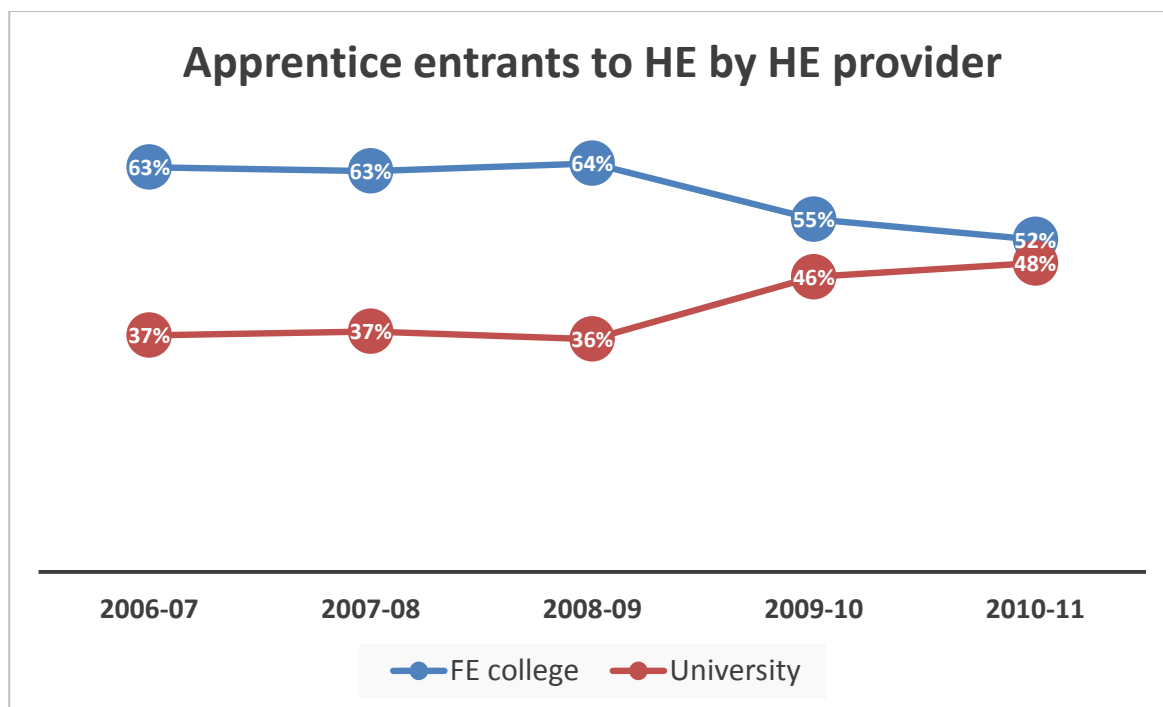




### 3.5 Progression of apprentices broken down by HE provider

Figure 2 illustrates the part that both FE colleges and universities play in delivering higher education to advanced level apprentices who progress. It shows that up until the 2009-10 cohort, a much higher proportion of students progressed to HE in FE colleges than to HE in universities. From the 2009-10 cohort this started to change and universities have delivered to an increasingly larger proportion of advanced level apprentices. This may be influenced by the increase in admissions of learners with BTEC qualifications into universities and First Degree programmes. BTECs are now the second highest entry qualification used to enter university (behind A levels). However, for the 2010-11 cohort, FE colleges were still the major HE destination for apprentices and this is likely to be influenced by factors such as accessibility, provision of part-time vocational programmes, good local employer links, flexibility, etc.

**Figure 2: Breakdown of advanced level apprentice progression by HE provider**



## 4. Characteristics of advanced level apprentices

In this section of the report, the key characteristics of the advanced level apprentice cohorts tracked in this study are presented followed by an investigation into the rate and pattern of prior progression from intermediate apprenticeships and also their previous experience of higher education. The number of apprentice starts has grown considerably since 2006 but the numbers in different frameworks have grown unevenly resulting in a change in the profile of advanced level apprentices across each of the tracked years. Presenting each of the tracked cohorts in terms of their characteristics including age, gender, framework and domicile provides a context for understanding progression more fully, where different progression patterns can be explained in part by the changing nature of the cohorts across the five years. Also in this section is an exploration of **internal progression** looking at the extent to which some apprentices may previously have studied at an intermediate level and to which some may also have studied at a higher level before coming onto an advanced level framework. It is apparent that the educational journeys of apprentices can be very complex with some apprentices undertaking frameworks offering Level 3 qualifications for the first time but others already having qualifications at Level 3 or higher who have changed pathways through employment and are undertaking a further Level 3 qualification as part of their apprenticeship.

### 4.1 Key characteristics of the advanced level apprentice cohorts in this study

#### 4.1.1 Age and gender

Table 4 shows the number of female advanced level apprentices has more than doubled. All age groups saw an increase but the growth was inflated by in the large increase in females aged 25+ where the population grew by 21,330 students between 2006 and 2011. The number of 17-19 year old males dropped (by -1,505 students) but there was also a significant increase in the number of 25+ male advanced level apprentices (+7,185).

**Table 4: Age and gender**

Gender	Age	Advanced level apprentice cohort in the tracking study					
		2006-07	2007-08	2008-09	2009-10	2010-11	Difference 2006 - 2010
Female	17-19	8275	8030	8640	11725	10145	1865
	20-24	5805	5885	5780	8325	7555	1750
	25+	60	4210	8885	8810	17775	17715
	<b>Total</b>	14145	18125	23305	28860	35475	21330
Male	17-19	15350	15865	16480	17330	13845	-1505
	20-24	5320	5330	5505	7340	5555	235
	25+	55	1455	3920	3940	7240	7185
	<b>Total</b>	20720	22645	25905	28615	26635	5915
<b>Total</b>		34865	40775	49210	57475	62110	27250

### 4.1.2 Regional distribution of advanced level apprentice cohorts

Numbers of advanced level apprentices have increased in every region in England as shown in Table 5 where numbers reflect the home region of the apprentice. London has seen the highest growth in numbers of advanced level apprentices across each of the tracked years where the population has more than doubled.

**Table 5: Regional distribution of advanced level apprentice cohorts**

Region	2006-07		2007-08		2008-09		2009-10		2010-11		% Population change
	Population	% of total population	Population	% of total population	Population	% of total population	Population	% of total population	Population	% of total population	
<b>East Midlands</b>	3515	10%	4125	10%	4675	10%	5180	9%	5395	9%	53.5%
<b>East of England</b>	2805	8%	3645	9%	4140	8%	4960	9%	5195	8%	85.3%
<b>London</b>	2090	6%	2485	6%	3460	7%	4175	7%	5665	9%	171.1%
<b>North East</b>	2590	7%	3145	8%	4220	9%	4190	7%	4960	8%	91.7%
<b>North West</b>	6735	19%	6995	17%	8185	17%	9995	17%	10635	17%	57.9%
<b>South East</b>	4810	14%	5315	13%	6520	13%	7445	13%	8090	13%	68.2%
<b>South West</b>	3715	11%	4400	11%	5480	11%	6965	12%	6610	11%	77.8%
<b>West Midlands</b>	3860	11%	5025	12%	6145	13%	6905	12%	7520	12%	94.8%
<b>Yorkshire and the Humber</b>	4430	13%	5290	13%	5955	12%	7305	13%	7560	12%	70.7%

### 4.1.3 Distribution of advanced apprentice cohorts across frameworks

In Table 6, framework numbers show that the biggest growth has been with Business Administration, Management, Children's Care, Learning & Development, Health & Social Care, Customer Service and Communication Technologies. Communication Technologies and Management have seen particularly high increases in population but this was from a very low starting point in 2006-07. Although the numbers in Engineering, Electrotechnical and Vehicle Maintenance and Repair look as though they have declined, this may be due the fact that many apprentices take longer to achieve their apprenticeship in these frameworks and the latest cohort tracked in 2010-11 (started in this year and finished by 2013-14) does not accurately represent the number of achievers. This has become evident as updates are provided where the cohort in these frameworks increases substantially with each refresh.

**Table 6: Advanced level apprentice cohorts in the study by framework (top 14 Frameworks in terms of apprentice numbers)**

Framework	2006-07		2007-08		2008-09		2009-10		2010-11		% Change
	Cohort number	% of total cohort	Cohort number	% of total cohort	Cohort number	% of total cohort	Cohort number	% of total cohort	Cohort number	% of total cohort	
Business Administration	2880	8%	3520	9%	4585	9%	6845	12%	7215	12%	151%
Children's Care Learning and Development	3210	9%	3815	9%	4665	9%	6135	11%	6705	11%	109%
Engineering	3590	10%	4555	11%	5265	11%	3760	7%	1855	3%	-48%
Health and Social Care	1120	3%	2765	7%	2565	5%	3535	6%	6610	11%	491%
Electrotechnical	4580	13%	4555	11%	4035	8%	2560	4%	1010	2%	-78%
Customer Service	1830	5%	2090	5%	2555	5%	3725	6%	5375	9%	194%
Construction	3050	9%	2590	6%	2195	4%	3730	6%	2495	4%	-18%
Vehicle Maintenance and Repair	1640	5%	2890	7%	2915	6%	3535	6%	1935	3%	18%
Management	265	1%	990	2%	2045	4%	2320	4%	5830	9%	2084%
Hairdressing	1930	6%	1910	5%	2430	5%	2895	5%	2470	4%	28%
Active Leisure and Learning	1150	3%	1090	3%	2700	5%	3075	5%	3115	5%	170%
Communications Technologies (Telecoms)	160	0%	390	1%	2050	4%	3825	7%	5435	9%	3276%
Hospitality and Catering	1305	4%	1390	3%	1675	3%	1575	3%	2385	4%	82%
Accountancy	1280	4%	1160	3%	1680	3%	1660	3%	1405	2%	10%

#### 4.1.4 Disadvantaged profile of the advanced level apprentice cohorts

Educational disadvantage is analysed in this report using HEFCE's POLAR3 indicator (HEFCE, 2014b) where the tracked cohorts are profiled according to their home neighbourhood. Students living in an area classified as POLAR3 Quintiles 1 and 2 (Q1 and Q2) are in the lowest 40% in the country in terms of HE participation rates and educational disadvantage. Table 7 shows that the disadvantaged profile of advanced level apprentices has not changed over the cohort years, around **45%** of apprentices are classified as living in a low higher education participation area (Q1 & Q2) and this proportion has remained steady across the cohorts. This is higher than the proportion of students in FE colleges studying Level 3 qualifications such as BTEC, Access to HE and other vocational programmes where **41%** were classified as Q1 & Q2 (Smith, Joslin, & Jameson, 2015). Increases in population numbers are seen across all POLAR3 groups

although disadvantaged Quintiles 1 and 2 have seen higher increases than advantaged Quintiles 4 and 5.

**Table 7: Disadvantaged profile of advanced level apprentices**

POLAR3 quintile	2006-07		2007-08		2008-09		2009-10		2010-11		Change 2006-2010
	population	% of population	population	% of population	population	% of population	population	% of population	population	% of population	
<b>Q1 – Most disadvantaged</b>	7620	22%	9200	23%	10905	22%	12915	22%	13975	22%	83%
<b>Q2</b>	8000	23%	9420	23%	11325	23%	13255	23%	14440	23%	81%
<b>Q3</b>	7530	22%	8750	21%	10495	21%	12415	22%	13225	21%	76%
<b>Q4</b>	6785	19%	7660	19%	9330	19%	10735	19%	11745	19%	73%
<b>Q5 – Most advantaged</b>	4895	14%	5710	14%	7130	14%	8110	14%	8545	14%	75%
<b>Total</b>	<b>34870</b>	<b>100%</b>	<b>40785</b>	<b>100%</b>	<b>49215</b>	<b>100%</b>	<b>57475</b>	<b>100%</b>	<b>62110</b>	<b>100%</b>	<b>78%</b>

#### 4.1.5 Advanced level apprentice providers

Increases in numbers were seen across all provider types apart from the *Other* category which includes charities and non-profit making associations. The biggest increases were in apprentices with directly contracted large businesses.

**Table 8: Advanced level apprentice cohort numbers by provider type**

Provider type	Advanced level apprentice cohort population					% Change 2006-2010
	2006-07	2007-08	2008-09	2009-10	2010-11	
Direct Contracted Business	5570	6995	8690	10675	10875	95%
FE College	9600	9985	12600	14560	16550	72%
Other e.g. charities	2430	2110	1675	2620	1770	-27%
Public Sector	16225	20305	24550	27425	30945	91%
Private Training Providers	1045	1385	1700	2195	1970	88%
<b>Total</b>	<b>34870</b>	<b>40785</b>	<b>49215</b>	<b>57475</b>	<b>62110</b>	<b>78%</b>

#### 4.1.6 Age profile of advanced level apprentice cohorts across frameworks

Given the high increase in the number of 25+ apprentices, it is not surprising to see a change in age breakdowns for the frameworks as presented in Table 9. In 2006-07, 63% of those on an Accountancy framework were aged 17-19 but this dropped to just 32% for the 2010-11 cohort. In Children's Care Learning and Development, 32% were young in 2006-07 and this declined to just 7% for the 2010-11 cohort. Frameworks such as

Communications Technologies, Business Administration, Engineering and Construction still have more young students than mature students. Larger numbers of older advanced level apprentices will influence progression patterns and changes in age composition are considered alongside the HE progression rate trends presented later in the report.

**Table 9: Top ten frameworks and age band breakdown**

Cohort	Age band	Accountancy	Active Leisure and Learning	Business Administration	Children's Care Learning & Development	Construction	Customer Service	Electrotechnical	Engineering	Hairdressing	Health and Social Care	Communication Technologies
2006	16-19	63%	68%	88%	32%	77%	38%	77%	79%	12%	75%	74%
	20-24	37%	32%	12%	67%	23%	62%	23%	21%	85%	25%	26%
	25+	0%	0%	0%	1%	0%	1%	0%	0%	3%	0%	0%
2007	16-19	49%	58%	84%	13%	77%	26%	75%	77%	6%	69%	63%
	20-24	30%	29%	14%	34%	19%	41%	23%	23%	30%	28%	27%
	25+	21%	13%	2%	53%	3%	32%	2%	1%	65%	3%	10%
2008	16-19	37%	55%	81%	9%	71%	19%	70%	72%	2%	61%	83%
	20-24	23%	25%	15%	23%	18%	30%	27%	26%	15%	26%	9%
	25+	39%	21%	4%	68%	10%	51%	4%	2%	83%	13%	8%
2009	16-19	40%	56%	71%	13%	68%	15%	69%	67%	3%	68%	87%
	20-24	25%	30%	24%	33%	23%	39%	28%	30%	19%	25%	10%
	25+	35%	14%	5%	55%	8%	46%	4%	3%	78%	7%	2%
2010	16-19	32%	41%	60%	7%	62%	25%	65%	64%	2%	65%	95%
	20-24	20%	23%	30%	20%	23%	25%	29%	27%	14%	23%	4%
	25+	47%	36%	9%	73%	15%	50%	6%	10%	84%	12%	2%

## 4.2 Progression from intermediate to advanced level apprenticeships

The Individualised Learner Record datasets were linked across years from 2006-07 to 2010-11 to track back those advanced level apprentices who were recorded as studying an intermediate apprenticeship at Level 2 in the ILR. 2004-05 is the first year that apprentices were classified in the ILR and so the 2006-07 advanced level apprentice cohort is linked back two years to identify whether they were formerly a Level 2 apprentice. For subsequent cohorts, however, the study was able to link back a number of years; for example, the 2010-11 cohort is linked back through six years of intermediate apprentice datasets to 2004-05. Due to this, the progression rate of the 2010-11 cohort gives the highest reported proportion of advanced level apprentices previously on an intermediate

framework. However, trend analysis is likely to be skewed for the early advanced level apprentice cohorts.

It is important to note that this linking exercise across ILR datasets to identify intermediate apprentices progressing onto a Level 3 advanced level apprenticeship did not identify whether the apprentice may already have had a Level 3 qualification before starting their apprenticeship framework. The prior attainment of apprentices is explored in some depth in the BIS study “Prior Qualifications of Adult Apprentices 2011-2012” (IFF Research, 2011) which found that around half of Level 3 apprentices already had a Level 3 qualification. This suggests that the advanced level apprenticeship does not necessarily provide evidence of up-skilling in terms of qualification achievement for many learners. It does however provide evidence of up-skilling in terms of **apprentice framework achievement**, indicating the proportion of students progressing through apprenticeships to a higher level of framework study.

Later in this section, this report also examines the extent to which advanced level apprentices may already have a higher level qualification at Level 4, 5 or 6 suggesting that the apprentice framework is offering higher level qualifications for some learners but for a small group of learners, frameworks are providing additional qualifications in a specific subject area linked to a career path.

The 2010-11 advanced level apprentice cohort, tracked back for six years shows an overall progression rate from intermediate apprenticeships of **52%**, so around one in two advanced level apprentices had previously studied at intermediate level. This result also tallies with that found in the BIS study of prior qualifications (IFF Research, 2011) where it was reported that almost half of advanced level apprentices had achieved an apprenticeship or NVQ before starting their advanced level framework.

**Table 10: Progression from intermediate apprenticeships to advanced level apprenticeships (2010-11 cohort updated)**

Age band	Number of advanced level apprentices	Number who studied an intermediate apprenticeship	% progression from intermediate apprenticeships
16-19	23990	15355	61%
20-24	13110	7995	60%
Over 25	25015	6254	25%
<b>Total</b>	62110	27985	52%

Table 11 presents figures to show that some frameworks have higher rates of progression from intermediate to advanced level apprenticeships. It shows that students on some frameworks are more likely to have undertaken an intermediate apprenticeship than students in other frameworks. The majority of advanced level apprentices on a management framework start directly on an advanced level framework rather than an intermediate one as do those on an Electrotechnical framework. Conversely, the majority of Construction advanced level apprentices start on an intermediate framework before progressing to advanced level. The differences are stark but reflect framework pathways.

For example, as you would expect, there is no intermediate apprentice framework for Management whilst students on technical frameworks such as Construction will typically start on an intermediate apprenticeship framework and this may be a reason why apprentices in Construction were more likely to see it as a career route (Higton, Emmett, & Halliday, 2014).

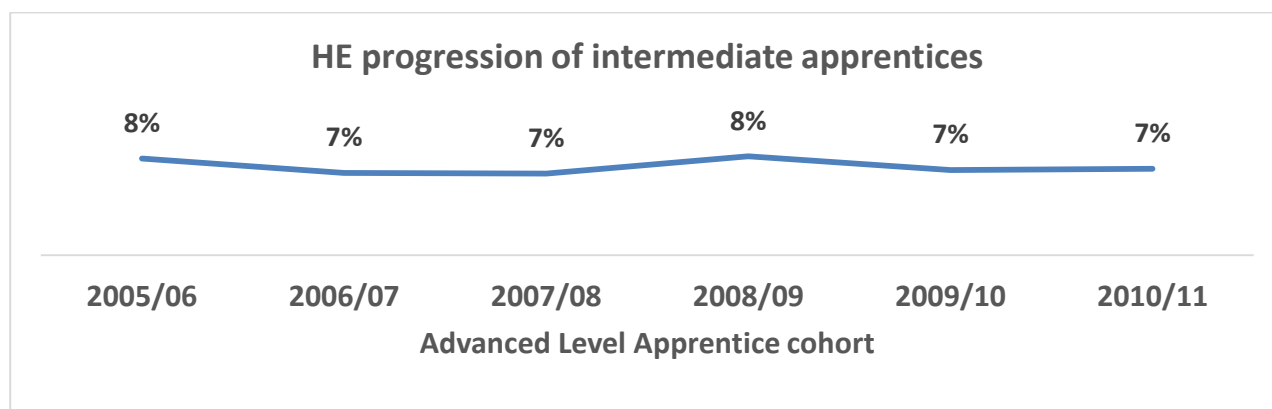
**Table 11: Progression from intermediate apprenticeships to advanced level apprenticeships for ten frameworks**

Framework	Number in advanced level apprentice cohorts	Number who studied an intermediate apprenticeship	% progression from an intermediate apprenticeship
Business Administration	7450	3975	53%
Children's Care Learning and Development	5175	2425	46%
Customer Service	4620	2675	58%
Construction	3755	3580	96%
Vehicle Maintenance and Repair	2995	2840	95%
Health and Social Care	3940	980	25%
Hairdressing	2970	510	79%
Management	2720	510	19%
Electrotechnical	2735	320	12%
Accountancy	1795	1230	69%

### 4.3 Progression of intermediate apprentices, through advanced level apprenticeships to HE

Figure 3 shows the rates of progression of apprentices who had started as intermediate apprentices, progressed to advanced level apprenticeships and progressed on to higher education. The progression rate has remained steady at between **7% and 8%**.

**Figure 3: Progression through apprenticeships**





## 4.4 Previous experience of higher education and apprenticeships

By linking advanced level apprentice records to previous years' higher education datasets, a picture of prior higher education experience emerges, showing the extent to which some advanced level apprentices (who already have Level 3 qualifications) had already entered higher education prior to commencing their advanced level apprentice framework. This was explored in more detail for a 2004-05 cohort in the first report in this series published by BIS tracking students to higher education up to 2010 (Joslin & Smith, 2013).

In this second cohort update, the tracking continues to reveal the different educational pathways that advanced level apprentices students undertake where around 3% have already had prior experience of higher education. As in the 2013 study, some have achieved a higher education qualification then later started an advanced level apprenticeship; more often than not this is due to a complete change in career area evidenced where the higher education subject choice does not correspond with the apprentice framework. This group of learners have been excluded from this update so that we calculate an initial progression rate to HE. This is even more important since the advanced apprentice population includes more and more older learners who are more likely to have achieved at Level 4 or higher before starting an apprentice framework than their younger peers. Another group will have started higher education but not completed their programme and then subsequently found employment which included an advanced level apprenticeship.

Through some real life cases, the vignettes below help to illustrate of the complexity of advanced level apprentice progression.

**Apprentice X** – This apprentice aged 25+, finished a Management framework in 2011-12. Six years earlier, started university at age 19 to study a Law degree but never completed.

**Apprentice Y** - Studied Design Studies at university at age 18 but never completed. A year later start an advanced level apprenticeship in Accounting and eventually progress onto a higher apprenticeship, also in Accounting.

**Apprentice Z** – Has an English Degree but six years later completes a Health & Social Care advanced level apprenticeship.

## 5. Trends in the progression of advanced level apprentice cohorts 2006-07 to 2010-11

This section looks at the progression trends of **five cohorts** of advanced level apprentices where rates of progression can be compared **over three years**.

The final cohort (2010-11) is likely to under report actual apprentice achievers for 2010-11 starts as at the time of tracking, some of 2010-11 starts will not have achieved their framework and are therefore not included in this update. This is because the tracked population in this study is identified by their start year only once they have achieved their framework and it is liable to fluctuation especially for later cohorts. As these cohorts continue to be tracked, the data becomes more complete. This is evident at framework level where populations for some frameworks in 2010-11 are low because in 2013-14, when this data was extracted, many apprentices in some frameworks may not have been recorded as completer achievers. This underlines the importance of longitudinal tracking where timing of entry varies across frameworks and the type of higher education study and also across different individual characteristics such as age and background. Nevertheless, in this section there is a comparison across years so that we can begin to explore trends in progression and framework variations and also examine changes in the progression patterns and behaviour of advanced level apprentices over time.

It is important to reiterate here that the number in the tracked population should not be confused with the numbers reported in the Statistical First Release (SFR) which are provided by Data Services. The SFR identifies a different population and achievements are counted as framework achievements in the year they achieve the framework. In this study, we identify the population using the apprentices' academic start year then select those who then go onto complete and achieve their framework in later years. For this reason there are differences between some of the trends in this report and the statistics published in the SFR.

For detailed progression statistics showing all progression across the cohorts, please see section three of this report.

### 5.1 Immediate entrant progression trends

**Immediate higher education progression** for each of the five cohorts is used to look at trends; this combines those students who enter in the same year as they start their advanced level apprenticeship and in the two years following. Comparisons are made in later tables between the earliest cohort 2006-07 and the latest cohort that has been tracked for three years, 2010-11.

Progression rates for each cohort broken down into prescribed and non-prescribed HE are given in Table 12. The three year progression rate for the entire 2006-07 cohort was **11.2%** and this decreased to **8.8%** for the 2010-11 cohort. The reduction in rates is influenced by a significant increase in the tracked population of apprentices in the 25+ age

group (shown in Table 1). The progression rate for young advanced level apprentices aged **17-19** is highest of all age groups at around **12%-16%**. It peaked for the 2008-09 cohort where many of entered HE in 2011-12 mirroring the general rise in HE entrants before the year fees increased in 2012. It is the rates of older learners aged 25+ that have seen the greatest decrease. A funding type breakdown shows that while progression rates to non-prescribed higher education have increased for the older age group (+1.8% points) there has been a drop of -3.1% points in progression rates to prescribed higher education.

**Table 12: Trends in progression rates by age and funding type**

Age group	% point difference 2010-11 and 2006-07	2006-07	2007-08	2008-09	2009-10	2010-11
<b>Progression to non-prescribed HE</b>						
<b>17-19</b>	1.2%	3.1%	3.4%	5.7%	4.8%	4.3%
<b>20-24</b>	0.8%	2.9%	2.9%	3.5%	3.8%	3.7%
<b>25+</b>	1.8%	0.9%	1.6%	2.1%	2.5%	2.7%
<b>Total</b>	0.5%	3.0%	3.0%	4.3%	4.0%	3.5%
<b>Progression to prescribed HE</b>						
<b>17-19</b>	-1.5%	9.3%	11.0%	10.2%	9.1%	7.8%
<b>20-24</b>	-0.8%	5.6%	6.4%	6.4%	5.8%	4.8%
<b>25+</b>	-3.1%	6.1%	3.4%	3.5%	3.3%	3.0%
<b>Total</b>	-2.9%	8.1%	8.7%	7.6%	6.9%	5.2%
<b>All HE progression</b>						
<b>17-19</b>	-0.3%	12.4%	14.4%	15.9%	13.9%	12.1%
<b>20-24</b>	0.0%	8.5%	9.3%	9.9%	9.6%	8.5%
<b>25+</b>	-1.2%	7.0%	5.0%	5.6%	5.7%	5.7%
<b>Total</b>	-2.4%	11.2%	11.7%	11.8%	10.9%	8.8%

It is worth considering progression trends in the context of population changes in the tracked cohorts. Table 2 in section three of this report highlighted the huge expansion in the number of advanced level apprentices in the 25+ age group; progression rates have not been sustained with population growth and this has contributed to a decline in overall progression rates. Furthermore, the population of the 25+ age group was very small in 2006-07 and although the progression rate was higher the number of entrants were small.

The number of **17-19** year old apprentices in the cohort tracked increased by only **360** between 2006-07 and 2010-11 and the numbers progressing to higher education also dipped by **35** resulting in a -0.3% drop in progression rate. It is notable that across cohort years, the 17-19 year progression rate has fluctuated between 12% and 16% but the progression rates of the 25+ year groups has declined against the backdrop of the massive increase in numbers (from **115** in 2006, to **25,015** in 2010).

It is also hypothesised that the increased fees to HE in 2012-13 may have contributed to lower progression rates for the 2010-11 cohort many of whom will have entered HE in that year following previous patterns of progression.

## 5.2 Trends in progression by region

In section 4, Table 5 compared each of the tracked cohort populations and showed that most regions have seen a higher number of advanced level apprentices with London, the North East and North West seeing particularly large increases in the cohort size. However, tracked populations shift significantly year on year and reflect the numbers studying different frameworks at regional level who are included in the tracked population as they complete their framework.

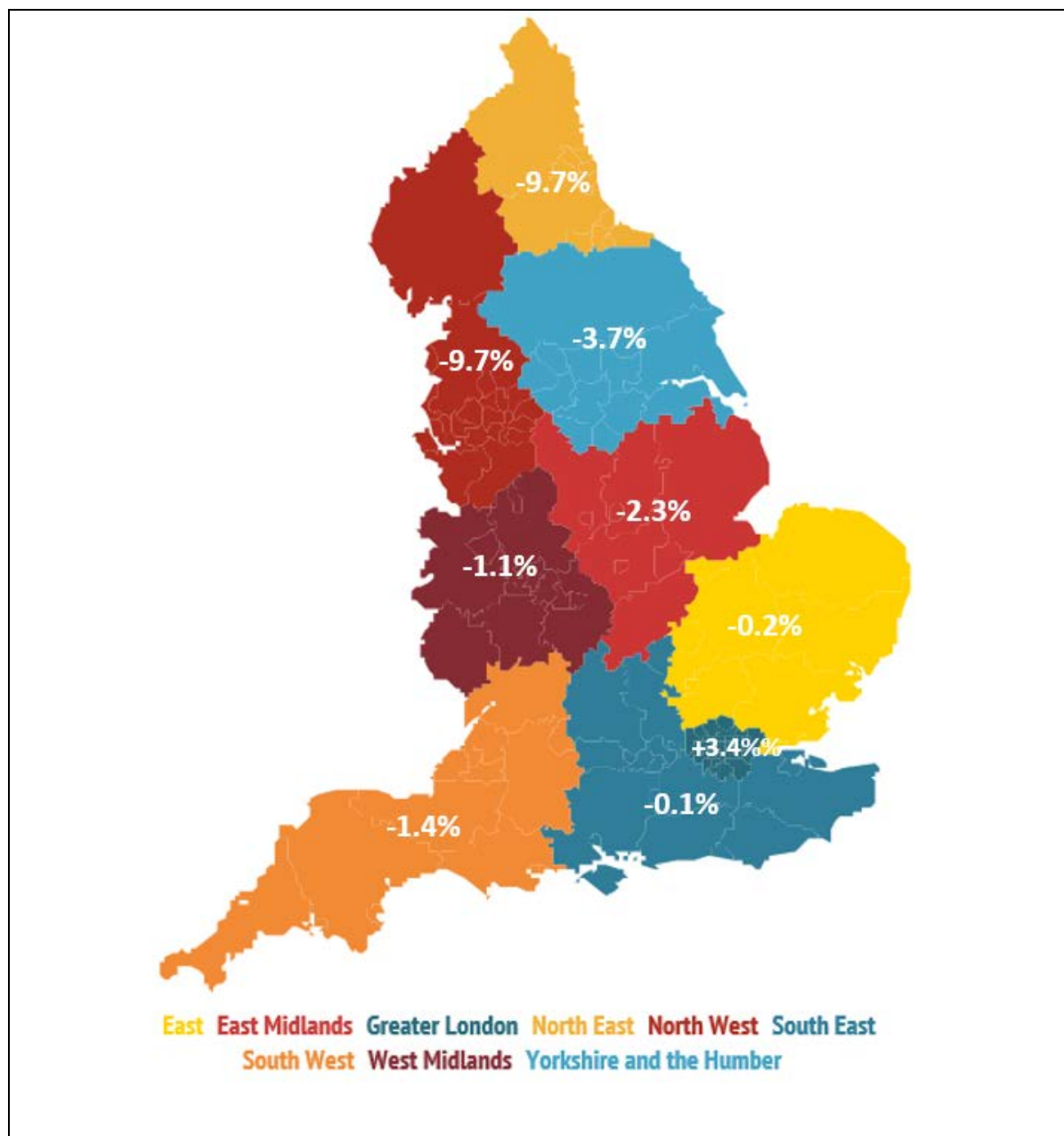
Table 13 shows that against rising populations, most regions saw a decrease in higher education progression rates between 2006-07 and 2010-11. The North East and the North West saw the highest decreases in progression rates. Meanwhile London who saw a considerable growth in the advanced level apprentice population was the only region to see a rise in higher education progression rates (+3.4% points).

**Table 13: Trends in region progression rates**

REGION	2006-07		2007-08		2008-09		2009-10		2010-11		Change 2006-2010	
	Population	% HE progression	Population	% HE progression	Population	% HE progression	Population	% HE progression	Population	% HE progression	% Population change	Difference HE progression
<b>East Midlands</b>	3515	11%	4125	12%	4675	12%	5180	11%	5395	8%	53%	-2.3%
<b>East of England</b>	2805	9%	3645	10%	4140	10%	4960	9%	5195	8%	85%	-0.2%
<b>London</b>	2090	6%	2485	8%	3460	10%	4175	10%	5665	9%	171%	3.4%
<b>North East</b>	2590	19%	3145	16%	4220	18%	4190	14%	4960	9%	92%	-9.7%
<b>North West</b>	6735	14%	6995	16%	8185	14%	9995	12%	10635	10%	58%	-4.3%
<b>South East</b>	4810	8%	5315	8%	6520	9%	7445	10%	8090	8%	68%	-0.1%
<b>South West</b>	3715	10%	4400	10%	5480	10%	6965	11%	6610	8%	78%	-1.4%
<b>West Midlands</b>	3860	11%	5025	11%	6145	11%	6905	11%	7520	10%	95%	-1.1%
<b>Yorkshire and the Humber</b>	4430	12%	5290	12%	5955	12%	7305	10%	7560	8%	71%	-3.7%

The map in Figure 4 illustrates the progression rate difference between the 2006-07 advanced level apprentice cohort and the 2010-11 cohort. It highlights the fact that only London saw an increase in progression rates. This is against a backdrop of rising populations for all regions where London saw particularly high growth.

**Figure 4: Percentage point change in HE progression between 2006-07 and 2010-11**



### 5.3 Gender trends

The progression rate for both males and females dipped between the earliest cohorts in 2006-07 and the latest cohort in 2010-11. The age profile shows that this was influenced

mainly by the drop in progression of the older 25+ age group which is not surprising given the massive increase in the older population. This table clearly illustrates the volatility of progression rates over time as the age profile of a cohort changes.

**Table 14: Cohort comparison by gender and age**

Gender	2006-07			2010-11			Change 2006-2010	
	Population	% Gender of total	% Higher education progression rate	Population	% Gender of total	% higher education progression rate	% Population change	Difference in higher education progression
<b>Female</b>	<b>14145</b>	<b>41%</b>	<b>11%</b>	<b>35475</b>	<b>54%</b>	<b>8%</b>	<b>151%</b>	<b>-3%</b>
<b>17-19</b>	8275	26%	12%	10145	23%	12%	-3%	0%
<b>20-24</b>	5805	14%	10%	7555	12%	9%	-2%	-1%
<b>25+</b>	60	0%	8%	17775	19%	6%	19%	-2%
<b>Male</b>	<b>20720</b>	<b>59%</b>	<b>11%</b>	<b>26635</b>	<b>46%</b>	<b>9%</b>	<b>29%</b>	<b>-2%</b>
<b>17-19</b>	15350	49%	12%	13845	30%	12%	-19%	0%
<b>20-24</b>	5320	10%	7%	5555	8%	8%	-2%	1%
<b>25+</b>	55	0%	6%	7240	7%	6%	7%	0%

## 5.4 Trends by framework

Table 15 explores changes by framework. Those frameworks with a significant numbers of higher education entrants are shown.

Earlier in section 4, Table 6 showed large increases in the number of students on Customer Service, Business Administration, Health and Social Care, Management and Communication Technologies frameworks.

Table 15 below examines higher education progression by framework and shows that for some frameworks with significant changes in tracked population, the higher education progression rate has not been maintained. For example, the progression rates for Customer Service have decreased, despite higher numbers of advanced level apprentices, but this may be due, in part, to the fact that the age composition of apprentices on this framework as changed considerably. There are now far more mature apprentices on this framework than young apprentices and mature students may be less likely to progress their studies. The different motivations that apprentices and their employers have for progression will also be a factor (Higton, Emmett, & Halliday, 2014) and (Colahan & Johnson, 2014). Health and Social Care in particular has seen a decline in progression rates and this is most probably due to the higher UCAS tariff points now required for entry to Nursing and the move to a degree only pathway. As mentioned previously, the population of specific frameworks such as Engineering, Engineering, Electrotechnical and Vehicle Maintenance and Repair for the latest cohort (2010) are not representative of all the starts in that year who subsequently achieved their framework as they were not

identified at the time of the data run. Apprentices take longer to achieve these frameworks than apprentices on say Customer Service frameworks. In the previous update of this study (Joslin & Smith, 2014), a much lower progression rate was reported for Engineering apprentices in 2009-10 (22%) and it is now apparent that with each refresh of this data, the later cohorts change considerably as further achievers are included in the tracking. The tracked population of these cohorts will change as the cohort is updated, particularly 2009-10 and 2010-11 cohorts as further achievers are included in the tracking and subsequently the HE progression rate changes. This is another example of the complexity of apprentice progression, the difference in progression behaviours of apprentices at framework level and the volatility in rates as the composition of the cohort changes over time. For this reason time series data is challenging for specific frameworks.

**Table 15: Cohort comparison by framework**

Framework		Business Administration	Children's Care Learning & Development	Engineering	Health and Social Care	Electrotechnical	Customer Service	Construction	Vehicle Maintenance and Repair	Business Management	Hairdressing	Accountancy	Communications Technologies
2006-07	Population	2880	3210	3590	1120	4580	1830	3050	1640	265	1930	1280	160
	Progression rate	11%	8%	34%	21%	1%	6%	4%	3%	10%	2%	69%	20%
2007-08	Population	3520	3815	4555	2765	4555	2090	2590	2890	990	1910	1160	390
	Progression rate	11%	8%	34%	12%	1%	5%	8%	2%	9%	2%	69%	22%
2008-09	Population	4585	4665	5265	2565	4035	2555	2195	2915	2045	2430	1680	2050
	Progression rate	9%	7%	33%	9%	1%	5%	6%	4%	6%	2%	70%	21%
2009-10	Population	6845	6135	3760	3535	2560	3725	3730	3535	2320	2895	1660	3825
	Progression rate	9%	7%	31%	9%	2%	4%	7%	3%	5%	2%	82%	16%
2010-11	Population	7215	6705	1855	6610	1010	5375	2495	1935	5830	2470	1400	5435
	Progression rate	9%	7%	17%	7%	2%	3%	5%	1%	6%	2%	78%	13%

## 5.5 Demographic comparisons using POLAR3

The home postcodes of advanced level apprentices were used to classify learners using indicators of disadvantage. HEFCE's POLAR3 measure was used (HEFCE, 2012) as it classifies neighbourhoods using higher education participation. POLAR3 classifies neighbourhoods by quintiles ordered from Quintile 1 (Q1), those areas with very low higher

education participation rates to Quintile 5 (Q5), those with very high rates. POLAR is a useful proxy for educational disadvantage. Further exploration of disadvantaged students is provided later in the report in section 7.8. Table 16 shows that apprentices from the most disadvantaged quintiles (Q1 and Q2) had lower HE progression than their peers in Q4 and Q5.

**Table 16: POLAR3 breakdown for 2006-07 to 2010-11 cohorts**

POLAR quintile	Higher education progression rate					
	2006-07	2007-08	2008-09	2009-10	2010-11	Progression rate % point difference
<b>Q1 - Very low higher education participation</b>	10%	10%	10%	9%	7%	-2.2%
<b>Q2</b>	10%	12%	12%	10%	8%	-1.8%
<b>Q3</b>	12%	12%	12%	11%	9%	-2.3%
<b>Q4</b>	12%	12%	13%	12%	9%	-3.1%
<b>Q5 - High higher education participation</b>	13%	13%	13%	13%	11%	-2.2%
<b>Total</b>	11%	12%	12%	11%	9%	-2.4%

## 5.6 Trends by type of apprenticeship provider

In Table 17, progression rate trends broken down by apprentice provider are presented showing the immediate progression rates for each cohort. The drop in rates for the 2010-11 cohort is seen for all types but to differing extents. Progression rates for apprentices registered with Businesses has seen a considerable drop as has the rates of learners with the Public Sector whereas those apprentices with FE colleges and Private Training Providers did not see such a high decline.

**Table 17: Type of apprenticeship provider for 2006-07 to 2010-11 cohorts**

Provider type	2006-07		2007-08		2008-09		2009-10		2010-11	
	Cohort number	% immediate progression	Cohort number	% immediate progression	Cohort number	% immediate progression	Cohort number	% immediate progression	Cohort number	% immediate progression
<b>Direct Contract Business</b>	5570	11%	6995	11%	8690	13%	10675	9%	10875	6%
<b>FE College</b>	9600	11%	9985	12%	12600	11%	14560	13%	16550	10%
<b>Other</b>	2430	8%	2110	9%	1675	10%	2620	9%	1770	8%
<b>Private Training Provider</b>	16225	11%	20305	11%	24550	12%	27425	11%	30945	9%
<b>Public Sector</b>	1045	18%	1385	16%	1700	11%	2195	12%	1970	9%
<b>Total</b>	34870	11%	40785	12%	49215	12%	57475	11%	62110	9%



## 5.7 Trends by higher education qualification type

Table 18 examines the higher education qualification breakdown of the five advanced level apprentice cohorts who entered higher education. While HND is reported separately, HNC is classified as an *Other Undergraduate* programme and so to align our figures with the sector, HNC is included with other higher education programmes such as Certificates and Diplomas of Higher Education. There were over one thousand more entrants with an apprenticeship to first degrees between 2006/07 and 2010/11. There are around three times as many First degree entrants from the 2010-11 cohort compared to the 2006-07 cohort. Foundation degree entrants have also increased although the number dipped for the 2010-12 cohort. NVQ 4 saw a significant decrease in numbers.

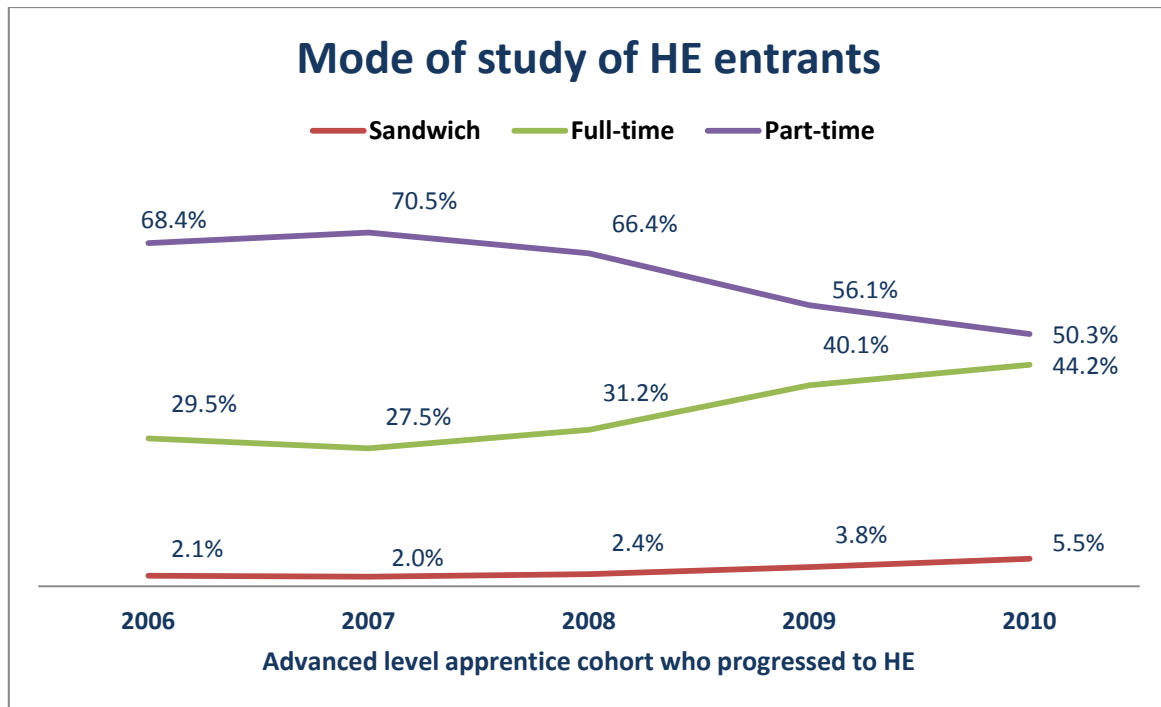
**Table 18: Cohort comparison by higher education qualification type**

HE qualification	2006/07		2007/08		2008/09		2009/10		2010-11		HE entrants difference 2006-2010
	HE entrants	% of total	HE entrants	% of total	HE entrants	% of total	HE entrants	% of total	HE entrants	% of total	
<b>First degree</b>	635	16%	760	16%	1000	17%	1620	26%	1805	33%	1170
<b>Foundation degree</b>	455	12%	675	14%	1010	17%	1045	17%	790	15%	335
<b>HND</b>	95	2%	125	3%	160	3%	205	3%	110	2%	15
<b>NVQ</b>	880	23%	815	17%	965	17%	165	3%	85	2%	-795
<b>OUG (incl. HNC)</b>	1815	47%	2390	50%	2655	46%	3205	51%	2620	48%	805

## 5.8 Trends by higher education mode of study

Figure 5 shows that **68%** of the 2006-07 advanced level apprentices who went on to higher level study, continued to study part-time in higher education but trends reveal a general decline in the proportion of entrants studying part-time, where **50%** of the 2010-11 cohort entered higher education to study part-time. The proportion of advanced level apprentices that enter higher education on a full-time basis has increased year on year.

**Figure 5: Mode of study of apprentice entrants to HE**



### 5.9 Higher education provider trends (top 20 providers)

The top twenty providers in terms of higher education entrants from the tracked cohorts of advanced level apprentices in 2010-11 are shown in Table 19. The Open University provides higher education to the largest number of entrants tracked and their numbers have increased substantially; **19%** of all entrants from the 2010-11 cohort are Open University students.

This study does not explore the factors that influenced the decisions of the apprentices who chose to study at particular institutions. Neither is it possible to say whether it was because they were particularly targeted by the institutions to which they progressed. Greater knowledge about this is however of strategic importance and could inform the recommendation in University Challenge that:

“universities should set out how they plan to accept more students who have completed apprenticeships onto their courses” (Milburn, 2012, p. 54)

It should be noted that the list in Table 19 is ordered by the 2010-11 volumes of HE entrants and compared with the table in the previous study (Joslin & Smith, 2013, p. 75) which was based on the 2005-06 cohort, it contains no colleges. This is due to the fact that universities have by 2009-10 increased their numbers of advanced level apprentices as shown in Figure 2 on page 22.

**Table 19: Number of entrants and proportion of total entrants by the top twenty higher education providers (2010-11 cohort)**

Higher education provider	2006-07		2007-08		2008-09		2009-10		2010-11	
	HE entrants	% of HE entrants	HE entrants	% of HE entrants	HE entrants	% of HE entrants	HE entrants	% of HE entrants	HE entrants	% of HE entrants
Open University	615	11%	725	12%	750	13%	865	15%	820	19%
University of Plymouth	130	2%	160	3%	200	3%	205	4%	180	4%
Teesside University	285	5%	330	5%	370	6%	250	4%	165	4%
University of Central Lancashire	255	5%	260	4%	240	4%	225	4%	110	3%
Leeds Beckett University	95	2%	100	2%	105	2%	100	2%	105	2%
Coventry University	50	1%	70	1%	60	1%	115	2%	105	2%
Staffordshire University	130	2%	160	3%	170	3%	180	3%	100	2%
University of Wolverhampton	90	2%	110	2%	105	2%	95	2%	100	2%
Sheffield Hallam University	165	3%	175	3%	165	3%	140	3%	95	2%
University of Northumbria at Newcastle	85	2%	85	1%	100	2%	95	2%	80	2%
University of Bolton	75	1%	90	2%	70	1%	110	2%	75	2%
Manchester Metropolitan University	85	1%	100	2%	95	2%	90	2%	70	2%
Edge Hill University	105	2%	90	1%	65	1%	75	1%	70	2%
London Metropolitan University	15	0%	20	0%	30	1%	40	1%	70	2%
University of Derby	135	2%	135	2%	95	2%	70	1%	65	1%
Birmingham City University	65	1%	70	1%	75	1%	70	1%	65	1%
University of Sunderland	65	1%	50	1%	75	1%	60	1%	60	1%
University of Bedfordshire	25	0%	25	0%	40	1%	50	1%	60	1%
Canterbury Christ Church University	35	1%	25	0%	25	0%	35	1%	60	1%
University of Huddersfield	110	2%	120	2%	115	2%	80	1%	60	1%

## 6. Recent trends in progression to higher apprenticeships

### 6.1 Overview of apprentice progression to higher apprenticeships

In this section, an early picture of the progression by advanced level apprentices to higher apprenticeships is explored based on cohorts starting in 2008-09, 2009-10 and 2010-11. This is done by matching between levels within the ILR and picking up the higher apprenticeship flag. These cohorts are analysed in more detail separately as it is too early for a like for like comparison. Some common factors can be identified although it must be noted that for these years the dominant framework was Accountancy and this skews the analysis at this early stage. Because this research is longitudinal and can return year on year to updating these results, the inclusion of this section was felt to be important to provide a benchmark for future studies in this longitudinal research series that will take in the widespread development of the higher apprenticeship frameworks following the publication of the SASE (BIS, 2015), the implementation of the Richard Review (BIS, 2013) and the new guidance for Trailblazers (BIS, 2014).

Table 20 looks at first time entrants to higher level study and shows a progression rate to higher apprenticeships of around 2% to 3%. The number of advanced level apprentices progressing to higher apprenticeships has increased and this reflects the increased number of advanced level apprentice completers. The results in this table also show that the majority of apprentices progress to non-prescribed higher education which can be explained by the volume of higher apprentices on an Accountancy framework (although the proportion of the total progressing onto higher apprenticeships with prescribed HE has also increased).

**Table 20: 2008-09, 2009-10 and 2010-11 advanced level apprentice progression to higher apprenticeships (first time entrants to higher level study)**

Advanced level apprentice cohort	Population of first time entrants	2009-10	2010-11	2011/12	2012/13	All tracked to date	All tracked to date			
		Number	Number	Number	Number		% HE progression rate	% of total higher apprentices to prescribed HE	% of total higher apprentices to non-prescribed HE	Number of years tracked
<b>2008/09</b>	49215	700	250	70	110	1130	2.30%	2.40%	97.60%	4 yrs
<b>2009/10</b>	57475	140	1040	250	150	1580	2.70%	6.90%	93.10%	3 yrs
<b>2010/11</b>	62110		250	990	390	1630	2.60%	5.40%	94.60%	2 yrs
<i>2011/12</i>	<i>13925</i>			<i>370</i>	<i>485</i>	<i>855</i>	<i>6.10%</i>	<i>3.70%</i>	<i>93.50%</i>	<i>1 yr</i>
<b>Total</b>	182725	840	1540	1680	1135	5195				

## 6.2 Frameworks

Although Accountancy apprentices who progress onto a higher apprenticeship still make up the highest proportion of higher apprentices, the 2010 cohort saw increased numbers of apprentices on a Health & Social Care, Business Administration and Management frameworks who went onto a Management and Leadership higher apprenticeship framework. As the longitudinal tracking of advanced level apprentices who progress to higher apprenticeships continues, it is expected that patterns of progression may change.

**Table 21: Progression to higher apprenticeships by framework**

Advanced level apprenticeship framework	% of higher apprentices tracked from advanced level apprenticeships		
	2008	2009	2010
<b>Accountancy</b>	95.0%	98.4%	74.5%
<b>Business Administration</b>	0.9%	0.4%	7.5%
<b>Children's Care Learning and Development</b>	0.1%	0.1%	1.5%
<b>Communications Technologies (Telecoms)</b>	0.1%	None	None
<b>Customer Service</b>	0.1%	0.1%	2.0%
<b>Electrotechnical</b>	0.1%	None	None
<b>Engineering</b>	1.9%	0.1%	1.0%
<b>Hairdressing</b>	0.1%	0.3%	1.2%
<b>Health and Social Care</b>	0.1%	None	5.0%
<b>Heating, Ventilation, Air Conditioning and Refrigeration</b>	0.1%	None	None
<b>IT &amp; Telecoms Professional</b>	0.5%	0.3%	None
<b>Management</b>	0.1%	None	8.0%
<b>MES Plumbing</b>	0.1%	0.1%	None
<b>Metals Processing</b>	0.1%	None	None
<b>Vehicle Maintenance and Repair</b>	0.2%	None	None
<b>Total</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

## 6.3 Gender

Table 22 shows that for both cohorts tracked through to higher apprenticeships, females had a higher progression rate to higher apprenticeships than males.

**Table 22: 2008-09 and 2010-11 advanced level apprentice progression to higher apprenticeships by gender**

Advanced level apprentice cohorts	Gender	Advanced level apprentice cohort population		Total to higher apprenticeships	
		Number	%	Number	%
<b>2008-09</b>	Female	23305	47%	690	2.8%
	Male	25905	53%	440	1.7%

Advanced level apprentice cohorts	Gender	Advanced level apprentice cohort population		Total to higher apprenticeships	
		Number	%	Number	%
2009-10	Female	28860	50%	1050	3.4%
	Male	28615	50%	530	1.8%
2010-11	Female	35475	57%	1035	2.9%
	Male	26635	43%	595	2.2%
2011-12	Female	7705	55%	290	6.5%
	Male	6220	45%	190	5.6%

## 6.4 Regional differences

Table 23 illustrates regional differences in progression rates of advanced level apprentices to higher apprenticeships. London and the South East have the lowest progression rates while apprentices in the East Midlands, West Midlands and North West have the highest rates.

**Table 23: 2008-09, 2009-10 and 2010-11 advanced level apprentice progression to higher apprenticeships by region**

Region	2008/09			2009/10			2010/11		
	Total advanced level apprentice cohort population	Total to higher apprenticeships	% Progression to higher apprenticeships	Total advanced level apprentice cohort population	Total to higher apprenticeships	% Progression to higher apprenticeships	Total advanced level apprentice cohort population	Total to higher apprenticeships	% Progression to higher apprenticeships
East Midlands	4675	115	2.5%	5180	165	3.2%	5395	145	2.7%
East of England	4140	75	1.8%	4960	95	1.9%	5195	140	2.7%
London	3460	30	0.9%	4175	50	1.2%	5665	85	1.5%
North East	4220	100	2.3%	4190	120	2.8%	4960	105	2.2%
North West	8185	225	2.7%	9995	325	3.3%	10635	355	3.4%
South East	6520	65	1.0%	7445	105	1.4%	8090	170	2.1%
South West	5480	150	2.7%	6965	200	2.9%	6610	150	2.3%
West Midlands	6145	100	1.7%	6905	180	2.6%	7520	200	2.7%
Yorkshire and the Humber	5955	155	2.6%	7305	200	2.8%	7560	215	2.9%
<b>Total*</b>	48775	1020	2.2%	57120	1445	2.5%	61635	1570	2.6%

\* Non-England domiciles excluded from this table, only England region domiciles shown

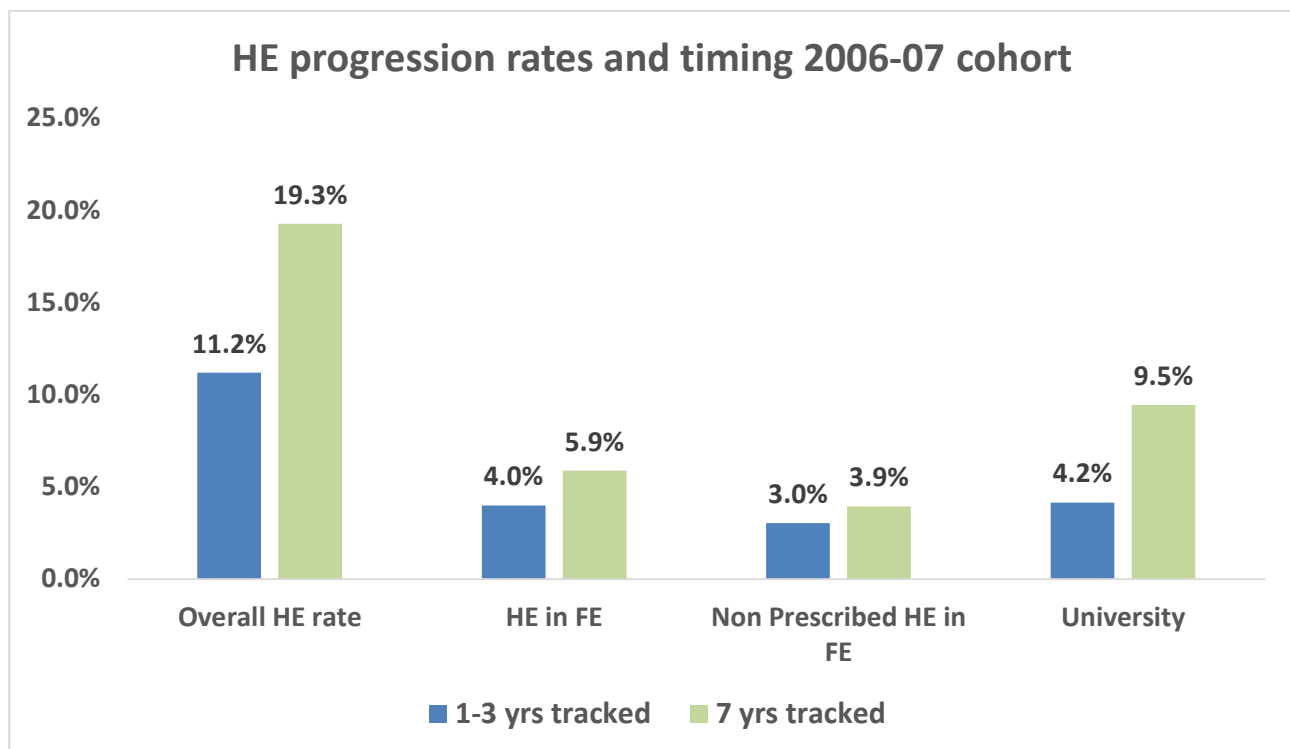
## 7. Detailed progression patterns of the 2006-07 apprentice cohort

This section provides a detailed historical analysis of the 2006-07 advanced level apprentice cohort that has been tracked into higher education over seven years.

### 7.1 Progression for 2006-07 apprentices who are first time entrants to higher education

Figure 6 shows an 11.2% immediate progression rate (tracked 1-3 years) for the 2006-07 cohort increasing to 19.3% when tracked for seven years into higher education. The chart also presents rates broken down by type of HE and by college and university. Apprentices who go onto study Level 4 non-prescribed programmes in FE more or less progress immediately with small numbers entering in later years. The chart illustrates this showing an immediate rate of 3% and a 7 year rate of 3.9%. In contrast, apprentices who go onto university are not all progressing immediately and when tracked up to seven years from the start of their apprenticeship, their progression rate increases significantly (from 4.2% to 9.5%).

**Figure 6: Progression rates of the 2006-07 advanced level apprentice cohort**



Higher education progression is presented in Table 26 broken down prescribed higher education and non-prescribed higher education.

**58%** of all those who entered higher education did so within three years which means that **42%** of total higher education entrants entered between 4 and 7 years on from the start of

their apprenticeship. The figures show that the majority of apprentices who progressed onto non-prescribed higher education, did so immediately.

**Table 24: 2006-07 advanced level apprentices and higher education entry type by year with timing of entry**

Age group		17-19	20-24	25+	Total
Advanced level apprentice cohort numbers		23630	11125	115	34870
Total higher education	All tracked	4965	1745	15	6725
	% HE	21.0%	15.7%	12.2%	19.3%
	% of total who entered higher education within 3 years	59%	54%	57%	58%
	% of total who entered higher education 4-7 years on	41%	46%	43%	42%
Prescribed higher education	Into higher education	4015	1325	10	5350
		17.0%	11.9%	10.4%	15.3%
	% of total who entered higher education within 3 years	55%	47%	58%	53%
	% of total who entered higher education 4-7 years on	45%	53%	42%	47%
Non-prescribed higher education	Into higher education	950	425	<5	1375
		4.0%	3.8%	1.7%	3.9%
	% of total who entered higher education within 3 years	78%	76%	50%	77%
	% of total who entered higher education 4-7 years on	22%	24%	50%	23%

Here are some case studies to provide illustrative examples of students who enter higher education sometime after completing their advanced level apprenticeship framework:

**Student A** - starts a Children's Care Learning and Development advanced level apprenticeship in 2006 then starts a full-time Nursing degree in 2012.

**Student B** - starts a Business Administration advanced level apprenticeship in 2006 then enters a part-time Other Undergraduate prescribed HE programme in Accounting in 2011.

## 7.2 Progression by geography

Table 25 illustrates the varying progression rates at regional level suggesting that students living in one area are more or less likely to progress to higher education than their framework peers who live in another area. For example, Engineering advanced level



apprentices in the north of England are more likely to progress to higher education than their peers in the south. In London, **33%** of advanced level apprentices on a Engineering framework progress to higher education, compared to **62%** of Engineering apprentices living in the North East. Similarly, Business Administration apprentices in London have lower progression rates than their peers on the same framework in the North East. In contrast, Construction apprentices in London have higher progression rates than their peers in for example the East Midlands or South West. There are clear regional differences in the higher education progression patterns of advanced level apprentices on the same framework and these patterns may be influenced by the availability and access to higher education pathways in the region as well as employment rates in the region.

**Table 25: Higher education 7 year progression rates by region and framework**

Framework	Advanced apprentice cohort		Progression rate by region								
	Cohort (2006-07)	Overall HE rate	East Midlands	East of England	London	North East	North West	South East	South West	West Midlands	Yorkshire and the Humber
Electrotechnical	4580	4%	5%	3%	4%	8%	4%	3%	3%	4%	6%
Engineering	3590	48%	51%	33%	33%	62%	54%	44%	40%	52%	49%
Children's Care Learning & Development	3210	22%	18%	24%	23%	32%	25%	22%	19%	23%	20%
Construction	3050	9%	7%	8%	23%	11%	12%	8%	5%	10%	8%
Business Administration	2880	22%	17%	21%	16%	30%	25%	20%	22%	21%	18%
Hairdressing	1930	6%	7%	1%	5%	7%	9%	2%	6%	7%	8%
Customer Service	1830	15%	13%	16%	16%	20%	14%	11%	15%	14%	14%
Vehicle Maintenance and Repair	1640	6%	6%	3%	8%	2%	6%	7%	7%	3%	4%
MES Plumbing	1450	3%	3%	1%	3%	5%	6%	0%	3%	1%	3%
Hospitality and Catering	1305	10%	9%	10%	5%	13%	8%	9%	8%	14%	15%
Accountancy	1280	77%	66%	54%	29%	94%	85%	64%	89%	71%	92%
Active Leisure and Learning	1150	27%	27%	20%	31%	30%	27%	19%	30%	34%	35%
Health and Social Care	1120	32%	29%	22%	20%	47%	42%	21%	27%	38%	26%
ICT Practitioners	705	20%	16%	28%	10%	34%	14%	19%	17%	21%	21%
Dental Nursing	600	17%	20%	6%	17%	22%	17%	10%	25%	14%	19%
Travel Services	515	6%	2%	7%	8%	7%	4%	5%	12%	4%	7%
Gas Industry	505	4%	8%	5%	3%	3%	7%	3%	0%	2%	11%
Retailing and Wholesaling	490	11%	11%	9%	10%	16%	11%	13%	9%	10%	7%

### 7.3 Progression by framework

In Table 26 progression rates and delivery of higher education by colleges and universities are examined for the 2006-07 cohort. Two rates of progression are provided: immediate and seven year higher education tracking results. The table shows the difference that longitudinal tracking makes at framework level and for all frameworks the progression rate increases considerably. For example, it illustrates the progression pattern of apprentices on a Children's Care and Development framework where progression rises from an immediate rate of 7.5% to a seven year progression rate of 22.1%. Whilst although Accountancy apprentice progression rates also increased over time, the increase was not as substantial showing that most apprentices on this framework progress immediately. The table also allows an exploration of delivery by framework. It shows, for example, that the majority of Customer Service apprentices who enter higher education go to a university, as do Hospitality and Catering apprentices. Meanwhile, Engineering apprentices go to a FE college to study at a higher level.

**Table 26: 2006-07 advanced level apprentices by framework (first time entrants)**

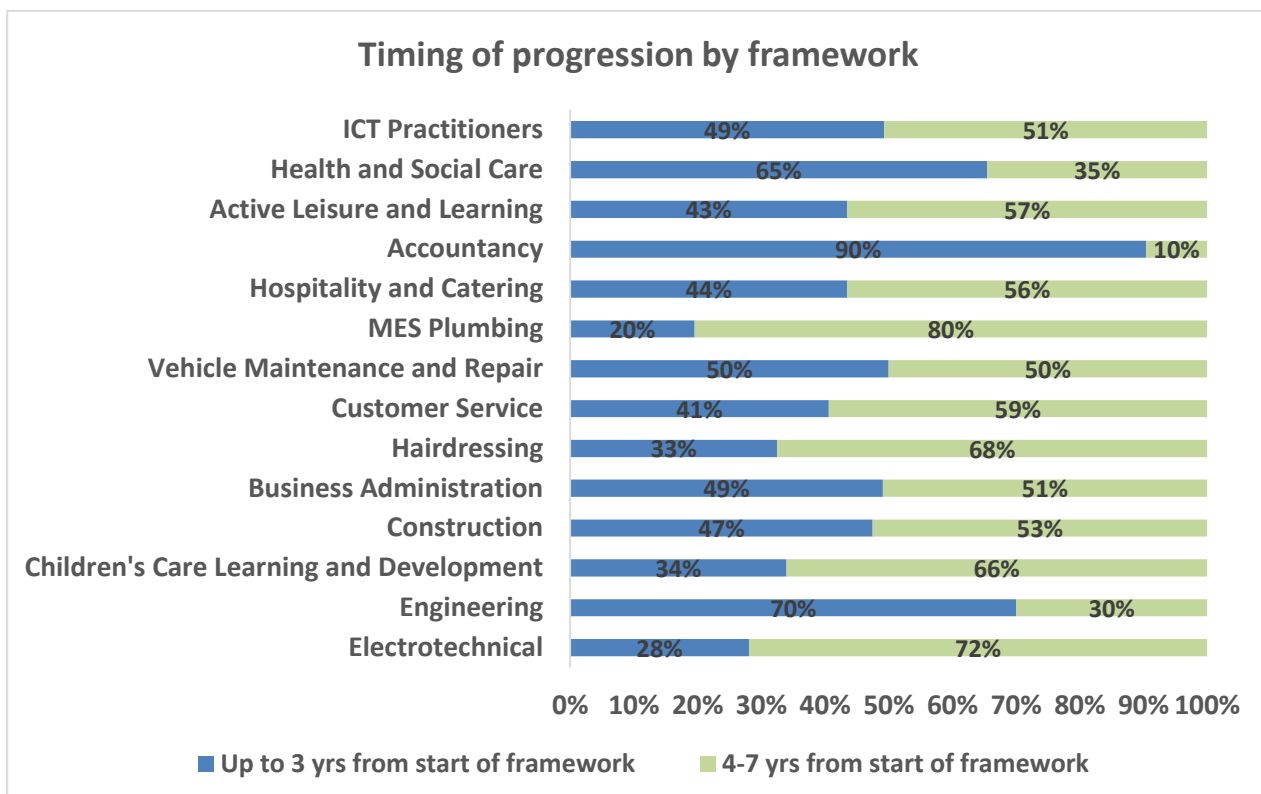
Framework	Tracked population				Delivery		
	Total tracked population	% of tracked population	% immediate HE entry	% total HE (tracked for 7 yrs)	% in HE in FE	% in non-prescribed HE	% in university
Electrotechnical	4580	13.1%	1.2%	4.3%	37.5%	12.5%	50.0%
Engineering	3590	10.3%	34.0%	48.5%	68.3%	5.0%	26.6%
Children's Care Learning and Development	3210	9.2%	7.5%	22.1%	28.6%	9.3%	62.1%
Construction	3050	8.7%	4.3%	9.1%	43.6%	6.7%	49.7%
Business Administration	2880	8.3%	10.9%	22.2%	32.0%	16.7%	51.3%
Hairdressing	1930	5.5%	2.0%	6.2%	36.6%	8.4%	55.0%
Customer Service	1830	5.2%	5.9%	14.5%	21.5%	10.7%	67.8%
Vehicle Maintenance and Repair	1640	4.7%	2.9%	5.7%	42.3%	9.6%	48.1%
MES Plumbing	1450	4.2%	0.6%	2.8%	48.9%	8.9%	42.2%
Hospitality and Catering	1305	3.7%	4.4%	10.0%	23.1%	8.4%	68.5%
Accountancy	1280	3.7%	69.3%	76.7%	47.1%	46.3%	6.6%
Active Leisure and Learning	1150	3.3%	11.9%	27.3%	13.1%	3.7%	83.2%
Health and Social Care	1120	3.2%	21.0%	32.1%	15.4%	12.0%	72.5%
ICT Practitioners	705	2.0%	10.1%	20.5%	20.3%	2.7%	77.0%
Dental Nursing	600	1.7%	5.3%	16.7%	9.0%	0.0%	91.0%
Travel Services	515	1.5%	2.3%	6.0%	21.2%	6.1%	72.7%
Gas Industry	505	1.4%	1.2%	4.2%	29.2%	12.5%	58.3%
Retailing and Wholesaling	490	1.4%	3.9%	10.8%	21.4%	5.4%	73.2%

Framework	Tracked population				Delivery		
	Total tracked population	% of tracked population	% immediate HE entry	% total HE (tracked for 7 yrs)	% in HE in FE	% in non-prescribed HE	% in university
Automotive Industry	320	0.9%	2.8%	3.6%	44.4%	22.2%	33.3%
Animal Care and Vet. Science	275	0.8%	5.1%	12.7%	11.4%	0.0%	88.6%
Business Management	265	0.8%	9.7%	22.5%	45.6%	11.8%	42.6%

### 7.4 Timing of progression by framework

Figure 7 illustrates differences in timing of entry to higher education at framework level and clearly differentiates those frameworks where learners tend to enter higher education immediately rather than later (4-7 years on). Many more Accountancy, Engineering and Health & Social Care advanced level apprentices enter higher education immediately than those who enter higher education later. This is not the case for advanced level apprentices on a Children’s Care Learning & Development, Plumbing, Electrotechnical or Hairdressing frameworks where the majority enter higher education some years after starting their advanced level apprenticeship.

**Figure 7: Framework and timing of higher education entry**



## 7.5 Framework and mode of study

Section 5.8 showed that overall, the majority of apprentices continue on with part-time study when they progress to higher education, presumably many continuing to study while in work. However, across the tracked cohort years the proportion entering full-time study has grown (from 29.5% in 2006-07 to 44.2% in 2009-10). Clearly, those advanced level apprentices who go on to study higher education on a full-time basis have decided to make a life change, going from employment with part-time study to full-time study. This is explored further by examining the relationship between framework and mode of study.

Table 27 shows that Health & Social Care students are more likely to study full-time than part-time, (this will reflect progression into Nursing) thus making the move from employment and part-time study to full-time study. This progression pattern is also observed in advanced level apprentices on an Active Leisure & Learning framework. In contrast, students on Engineering, Accountancy and Construction frameworks are more likely to continue to study part-time most likely while still in employment.

**Table 27: Framework and mode of study**

Framework	Full-time	Part-time	Sandwich
Engineering	7.8%	91.0%	1.2%
Children's Care Learning and Development	41.8%	58.2%	0.0%
Business Administration	33.0%	63.7%	3.3%
Health and Social Care	79.4%	19.7%	1.0%
Active Leisure and Learning	73.6%	21.8%	4.6%
Construction	23.6%	72.9%	3.5%
Customer Service	38.2%	58.8%	3.0%
Electrotechnical	31.9%	65.7%	2.4%
ICT Practitioners	42.9%	46.4%	10.7%
Accountancy	29.6%	65.9%	4.4%
Hospitality and Catering	54.2%	39.8%	5.9%
Hairdressing	39.4%	59.6%	0.9%
Dental Nursing	61.0%	39.0%	0.0%
Vehicle Maintenance and Repair	36.9%	56.0%	7.1%

## 7.6 Progression and type of apprenticeship provider

Figure 8 displays a breakdown of the tracked population by provider type alongside the higher education progression rate by type of provider. Private Training Providers had the highest number of advanced level apprentices, accounting for around half of all apprentices in 2006-07 whilst FE colleges had just under a quarter share of the cohort. Despite having the lowest share of advanced level apprentices, the Public Sector had the highest higher education progression rate where 36% entered higher education. Private Training Providers and FE colleges had a similar progression rate.

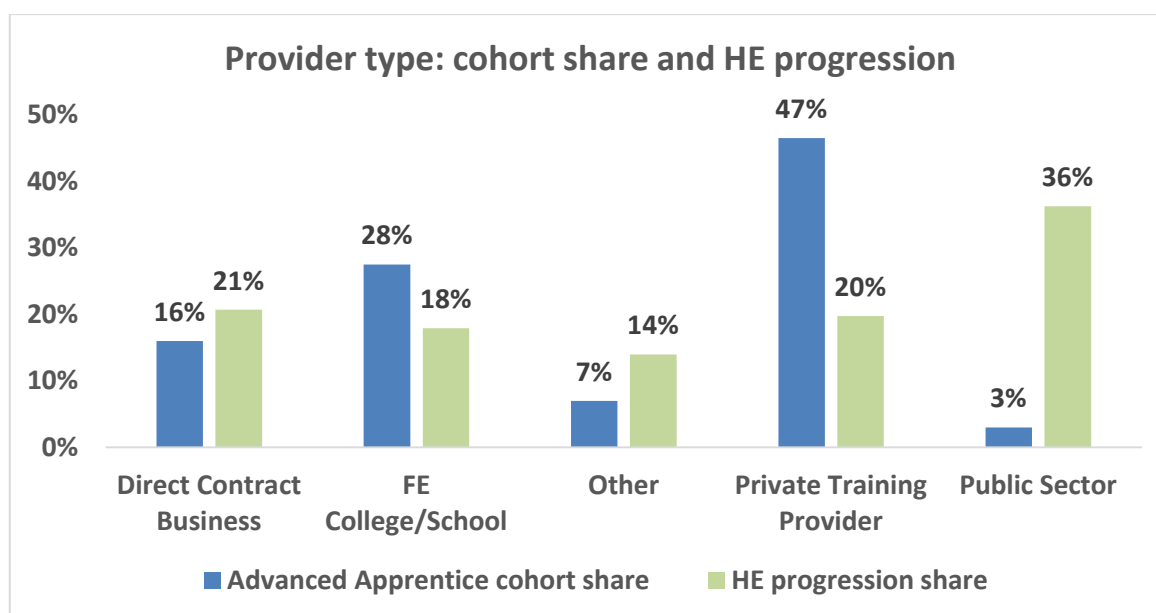
**Figure 8: Provider breakdown for the 2006-07 cohort**


Table 29 shows both immediate progression rates and longitudinal progression rates by provider type. For example, high proportions of apprentices from the Public Sector continue to progress over time where the rate jumps from 18.3% for immediate progression to 39.0% when tracked for seven years. In comparison, apprentices attending an FE college progress at a rate of 17.9% (with 11.4% progressing immediately) showing that although apprentices do continue to enter higher education over time, they do so to a lesser degree than apprentices from the Public Sector. A delivery breakdown in the same table shows varying patterns of progression dependant on delivery. The majority of apprentices from the Public Sector who progress, go on to university. FE college apprentices are more likely to remain in FE colleges for their higher education to study both non-prescribed and prescribed higher education.

**Table 29: Higher education progression by type of provider for 2006-07 advanced level apprentice cohort**

Provider type	Higher education progression rates		Delivery breakdown (overall progression over 7 years)		
	Immediate progression**	Overall higher education progression*	HE in FE	Non-prescribed HE in FE	University
<b>Direct Contract Business</b>	10.6%	20.7%	40.5%	7.5%	52.1%
<b>FE College</b>	11.4%	17.9%	45.8%	18.6%	35.7%
<b>Other</b>	8.1%	14.0%	45.6%	20.6%	33.8%
<b>Private Training Provider</b>	11.3%	19.8%	40.2%	18.1%	41.7%
<b>Public Sector</b>	18.3%	39.0%	30.0%	9.8%	60.2%
<b>Total</b>	11.2%	19.3%	41.5%	16.4%	42.1%

\*Overall progression = seven years tracked from apprentice start, \*\* Immediate progression = three years tracked from start

## 7.7 HE qualification and framework

Those frameworks with a higher education entrant number of 50 and above are shown in Table 30 alongside a higher education qualification breakdown.

81.5% of Engineering advanced level apprentices who progressed went on to *Other Undergraduate* higher education programmes and the majority went on to HNC programmes. The biggest proportion of advanced level apprentices in the Children's Care Learning and Development framework progressed to Foundation degree courses (35%) compared to only 3% of those on a Health and Social Care framework. The majority of Health and Social Care students progressed to OUG (in particular to Dip HE) programmes and this is likely to have changed for later cohorts with the move towards Nursing degree programmes.

Those students on an Active Leisure and Learning frameworks were more likely to progress to a First degree than students on other frameworks. For example, around three quarters progressed to a First degree compared to just 4% of Engineering advanced level apprentices.

**Table 30: 2006-07 advanced level apprentice immediate entrants by framework and He qualification**

Framework	HE entrants	First degree	Foundation degree	HND	NVQ	OUG	Grand Total
Engineering	1220	3.6%	11.3%	3.4%	0.0%	81.5%	100.0%
Accountancy	890	3.0%	1.0%	0.0%	90.2%	5.7%	100.0%
Business Administration	315	40.4%	12.1%	5.1%	8.6%	31.8%	100.0%
Children's Care Learning and Development	255	30.7%	34.6%	0.0%	5.1%	28.7%	100.0%
Health and Social Care	235	13.6%	3.0%	0.0%	9.8%	73.6%	100.0%
Active Leisure and Learning	135	71.5%	16.1%	2.9%	0.0%	9.5%	100.0%
Construction	135	12.8%	11.3%	6.0%	0.0%	69.9%	100.0%
Customer Service	110	44.4%	13.9%	3.7%	4.6%	32.4%	100.0%
ICT Practitioners	70	52.1%	18.3%	8.5%	0.0%	18.3%	100.0%
Process Technology	60	16.7%	35.0%	3.3%	0.0%	45.0%	100.0%
Hospitality and Catering	55	35.1%	24.6%	1.8%	8.8%	28.1%	100.0%
Electrotechnical	55	21.8%	5.5%	3.6%	0.0%	69.1%	100.0%

## 7.8 Disadvantaged profile of advanced level apprentices and progression breakdown

Sections 4.1.4 and 5.5 compared the cohorts using POLAR3. In this section the disadvantaged profile of the 2006-07 cohort is analysed in more detail.

The home postcodes of advanced level apprentices were used to classify learners using indicators of educational disadvantage. The POLAR3 (HEFCE, 2012) is used as it classifies neighbourhoods using higher education participation. POLAR3 classifies neighbourhoods by quintiles ordered from Q1, those areas with very low higher education participation rates to Q5, those with very high rates of HE participation. POLAR3 is used both to profile students and explore progression by POLAR3 quintile. The recent HEFCE POLAR3 study provides an up to date comparison of national progression rates.

HE performance indicators are produced each year and classify the entrant cohort using POLAR3. The data shows that **11%** of all entrants nationally were classified as POLAR3 Q1. Table 32 shows that **22%** of advanced level apprentices who entered HE are classified as POLAR3 Q1 indicating that the advanced level apprentice higher education entrant population has twice the proportion of POLAR3 quintile 1 learners than the general higher education population.

Table 32 presents progression rates at POLAR3 group level and shows that the advanced level apprentice rates of progression to higher education are not significantly different according to POLAR profile. For example, 10% of Quintile 1 advanced level apprentices progressed to higher education immediately compared to 13% of Quintile 5 apprentices. Similarly, although seven year progression rates for advanced level apprentices living in a quintile 5 area are higher, the gap is not substantial. This is different from the general young population; the HEFCE POLAR3 study found that the participation rate for POLAR3 Q1 18-19 year olds was 16.1% and for POLAR3 Q5 learners around 57.6%, a substantial gap between the two groups. The table also shows similar timing of entry by POLAR profile although Q5 apprentices are more likely to progress immediately than those from other quintiles.

**Table 31: Progression rates of 2006-07 advanced level apprentice cohort by POLAR3 profile**

POLAR 3	% of HE entrant population	HE progression rates		Timing of entry (of all HE entrants)	
		Immediate HE rate	7 year HE progression rate	Immediate 1-3 years	4-7 years later
<b>Q1 - Low HE participation</b>	22%	10%	17%	56%	44%
<b>Q2</b>	23%	10%	18%	56%	44%
<b>Q3</b>	22%	12%	20%	59%	41%
<b>Q4</b>	19%	12%	21%	58%	42%
<b>Q5 - High HE participation</b>	14%	13%	21%	61%	39%

## 7.9 Breakdown by POLAR3 and qualification aim

The POLAR3 profile of two POLAR3 groups, Quintile 1 and Quintile 5, by qualification aim, shown in Table 32 broken down by HE qualification. These results show that advanced level apprentices living in a POLAR3 Q1 area are less likely to study a First degree than their Q5 peers and much more likely to be studying an NVQ at Level 4.

**Table 32: Qualification type and POLAR3 quintile comparison**

POLAR3	2006-07 advanced level apprentice HE entrants					
	First degree	Foundation degree	NVQ	OUG	HND	Total
<b>Q1 - Low HE participation</b>	20.6%	15.3%	16.9%	44.3%	1.8%	100.0%
<b>Q2</b>	23.4%	17.1%	14.6%	41.6%	2.7%	100.0%
<b>Q3</b>	23.5%	13.3%	13.9%	46.2%	2.2%	100.0%
<b>Q4</b>	25.5%	17.1%	14.3%	40.9%	1.7%	100.0%
<b>Q5 - High HE participation</b>	28.1%	15.6%	11.4%	40.6%	3.6%	100.0%
<b>Total</b>	24.0%	15.7%	14.4%	42.8%	2.3%	<b>100.0%</b>

## 7.10 Breakdown by framework and POLAR3

Progression rates of POLAR3 groups vary by framework: students on an Accountancy framework who live in a POLAR3 Q1 area are more likely to progress to higher education than their framework peers who live in a POLAR3 Q5 area. In general, it appears that although the overall progression rates of POLAR3 groups is similar, this is not the case at framework level suggesting that students on some frameworks living in Q1 areas are just as likely, to progress than their framework peers who live in Q5 areas.

**Table 33: Framework and POLAR3 progression**

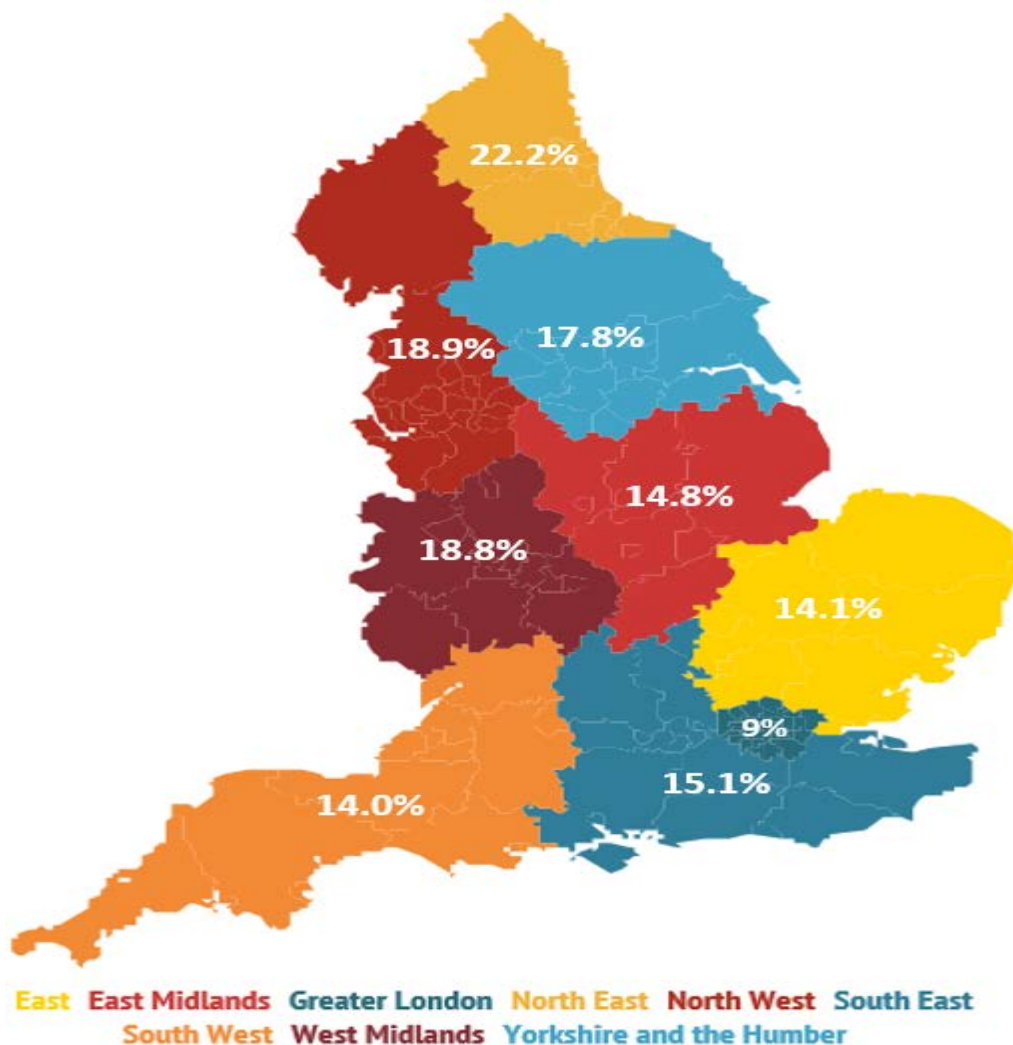
Framework	Q1 % higher education rate	Q5 % higher education rate	Difference progression rates Q1 and Q5
<b>Engineering</b>	42.1%	53.5%	11.4%
<b>Accountancy</b>	78.0%	70.3%	-7.7%
<b>Business Administration</b>	18.8%	26.6%	7.8%
<b>Health and Social Care</b>	28.2%	28.7%	0.5%
<b>Customer Service</b>	11.5%	15.6%	4.1%
<b>Construction</b>	7.7%	13.6%	6.0%
<b>Children's Care Learning and Development</b>	21.5%	25.1%	3.5%
<b>Hospitality and Catering</b>	7.8%	12.2%	4.4%
<b>Electrotechnical</b>	3.4%	5.0%	1.6%
<b>Active Leisure and Learning</b>	20.8%	35.5%	14.7%
<b>Hairdressing</b>	5.0%	5.8%	0.8%
<b>Dental Nursing</b>	11.0%	23.1%	12.1%
<b>ICT Practitioners</b>	17.1%	16.3%	-0.8%



## 7.11 Region by POLAR3 group and higher education progression

Figure 9 illustrates that disadvantaged advanced level apprentices living in the North East are much more likely to progress to higher education than their counterparts in London. 22% of students living in a disadvantaged neighbourhood in the North East progress to higher education compared to 9% of students who live in a disadvantaged neighbourhood in London.

**Figure 9: Regional HE progression of disadvantaged advanced level apprentices**

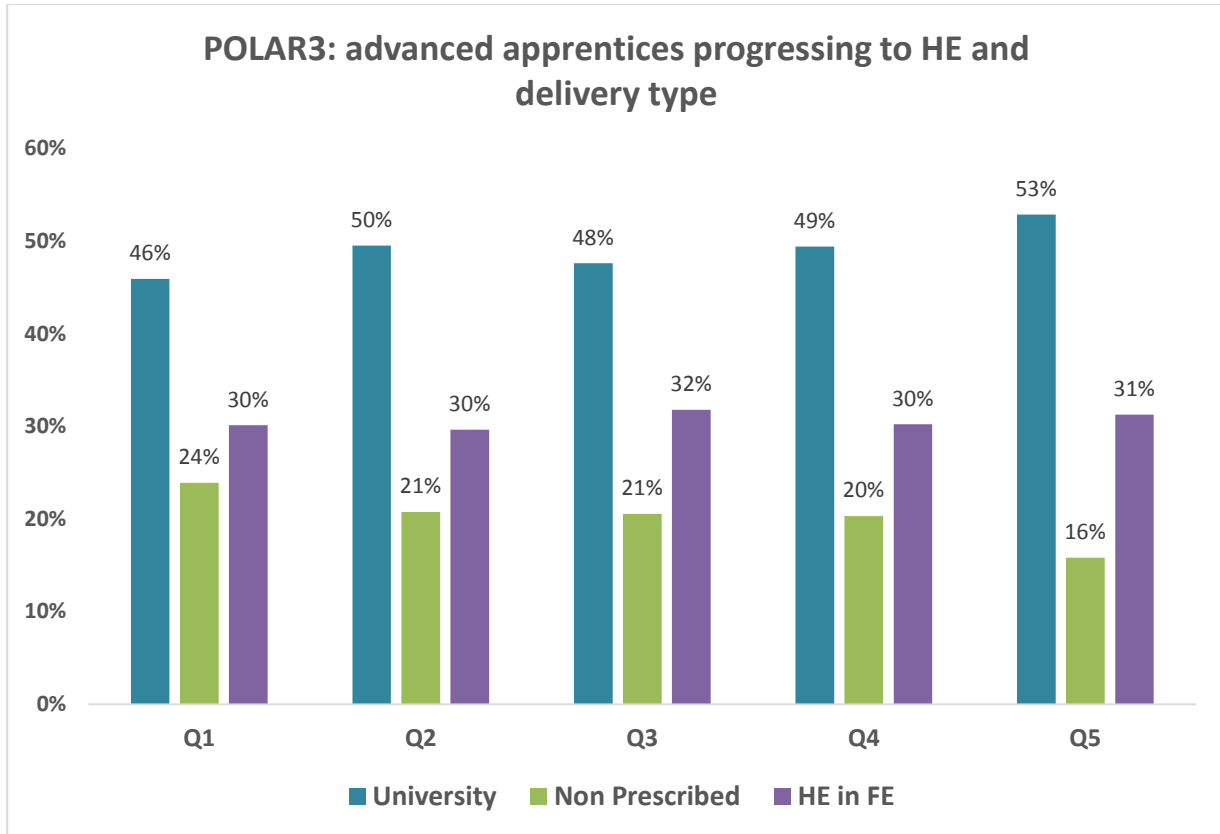


## 7.12 Delivery of higher education provision and POLAR3 comparison

Figure 10 shows that **53%** of advanced level apprentice entrants to **university** are classified as POLAR3 **Q5**. The converse is found for **non-prescribed** higher education programmes delivered in FE where **24%** entrants are **Q1** compared to 16% classified as

Q5. Similar proportions of both quintiles are found with higher education in FE programmes.

**Figure 10: Delivery of higher education provision and POLAR3 quintiles**



### 7.13 Higher education subject areas

Disaggregation of higher education subject areas by framework reveals the extent to which advanced level apprentices continue their studies at higher education level in the same subject area, but also gives an indication of where advanced level apprentices switch subject areas. Only those higher education subject areas with higher numbers of entrants are shown in Table 34. For example, it shows that around half of those on an Accountancy framework continue their studies in this area and a further 15% remain studying business related higher education subjects. The majority of those on an Engineering framework go on to study engineering in higher education whilst apprentices on a Business Administration framework study a range of subjects in higher education.

**Table 34: Relationship between advanced level apprenticeship frameworks and higher education subject areas**

Framework	Subject area in prescribed higher education	% of total progressed
<b>Accounting</b>	(N4) Accounting	52%
	(N9) Others in business & administrative studies	7%
	(N1) Business studies	8%
	(Y0) Combined	5%
	(G1) Mathematics	5%
<b>Business Administration</b>	(N1) Business studies	20%
	(Y0) Combined	10%
	(N2) Management studies	9%
	(B7) Nursing	5%
	(C8) Psychology	4%
<b>Construction</b>	(K2) Building	39%
	(N2) Management studies	14%
	(H2) Civil engineering	12%
	(H1) General engineering	5%
	(K0) Broadly-based programmes within architecture, building & planning	2%
<b>Children's Care, Learning &amp; Development</b>	(X3) Academic studies in education	48%
	(L5) Social work	9%
	(B7) Nursing	7%
	(X1) Training teachers	6%
	(Y0) Combined	5%
<b>Engineering</b>	(H6) Electronic & electrical engineering	29%
	(H3) Mechanical engineering	23%
	(H1) General engineering	19%
	(H7) Production & manufacturing engineering	10%
	(Y0) Combined	2%
<b>Health and Social Care</b>	(B7) Nursing	70%
	(L5) Social work	7%
	(Y0) Combined	5%
	(B9) Others in subjects allied to medicine	3%
	(N1) Business studies	2%
<b>Active Leisure and Learning</b>	(C6) Sports science	43%
	(N1) Business studies	6%
	(C8) Psychology	3%
	(X1) Training teachers	3%
	(N8) Hospitality, leisure, tourism and transport	3%
<b>Travel &amp; Tourism</b>	(N1) Business studies	13%
	(Y0) Combined	9%
	(X1) Training teachers	11%
	(B7) Nursing	9%
	(N8) Hospitality, leisure, tourism and transport	8%

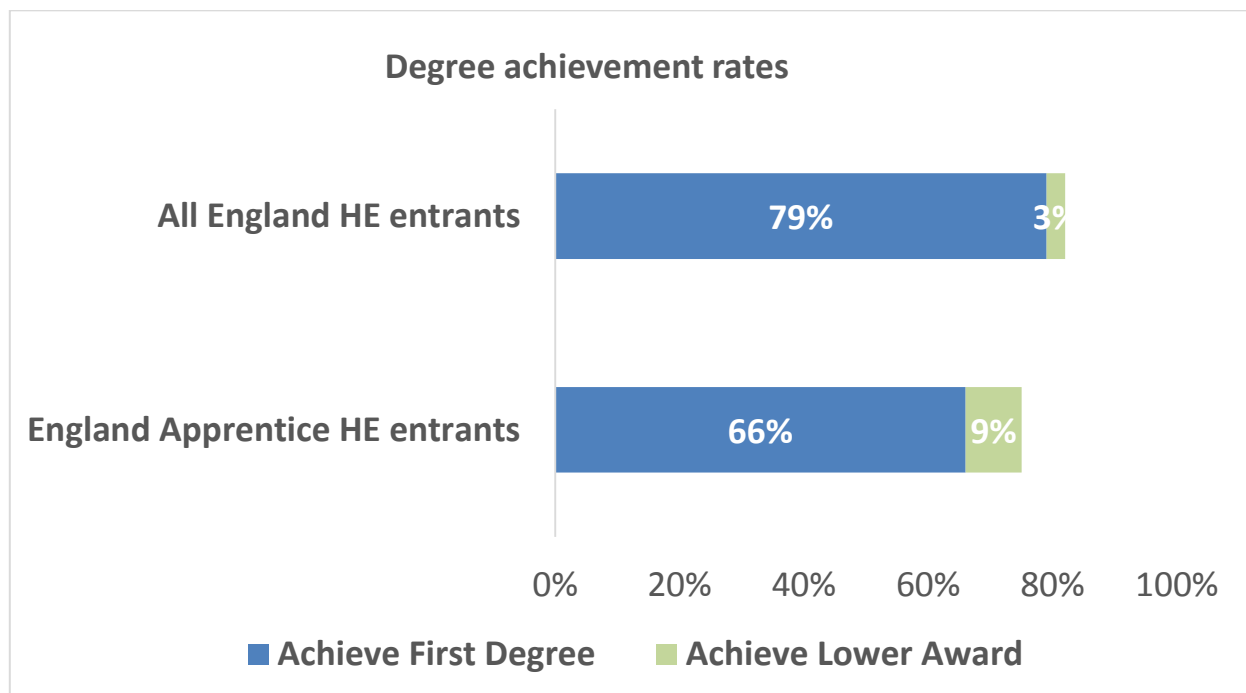
## 8. Higher education success

In this new section, the HE achievement of the tracked apprentice cohort who progressed to **university** is examined. In order to ensure reliability of achievement rates, the population for our analysis is limited to two cohorts of full-time First degree entrants 2008-09 and 2009-10, who would have expected to have completed their degree by 2012-13.

### 8.1 Degree achievement

Figure 11 shows a 66% achievement rate for the two cohorts of students who enrolled on a full-time First degree and were expected to have graduated by 2012-13. An additional 9% started on a first degree but were awarded a lower award, such as a Foundation degree. This means that a total of 75% of apprentices who progressed to HE achieved a higher qualification compared to an all-England rate of 82% (HESA, 2012).

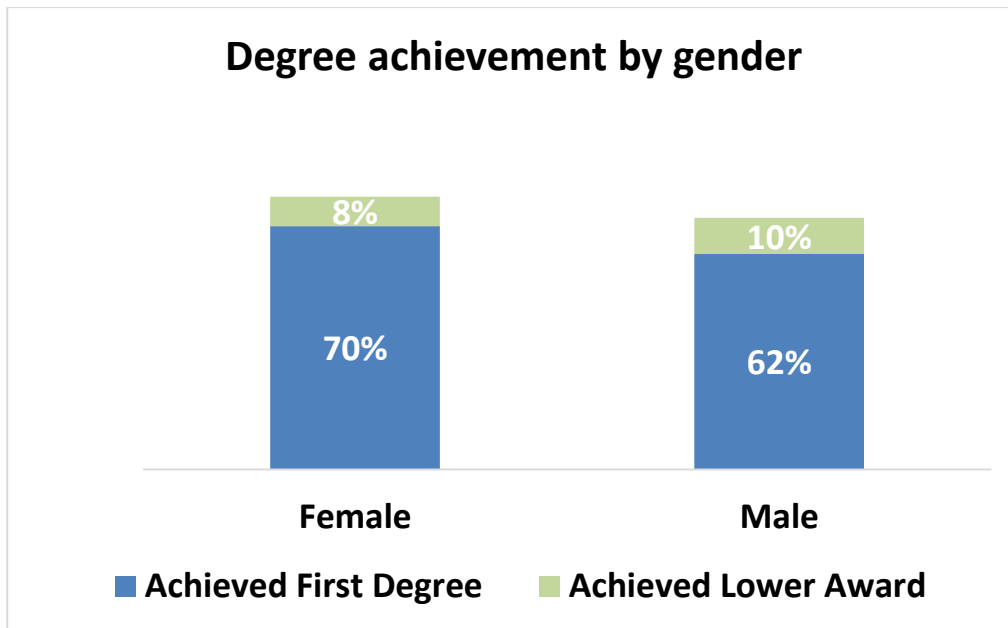
**Figure 11: Chart showing degree achievement rates compared to national**



### 8.2 Degree achievement and gender

Figure 12 shows that female apprentices who progress are more likely to achieve their First degree than their male peers. A total of **78%** female first degree entrants achieved a qualification, 70% their intended degree level and a further 8% ended with a lower award, e.g. a Foundation degree. This compares to **72%** of male apprentices achieving an HE qualification after enrolling for a First degree, with 62% achieving at degree level and 10% achieving a lower award.

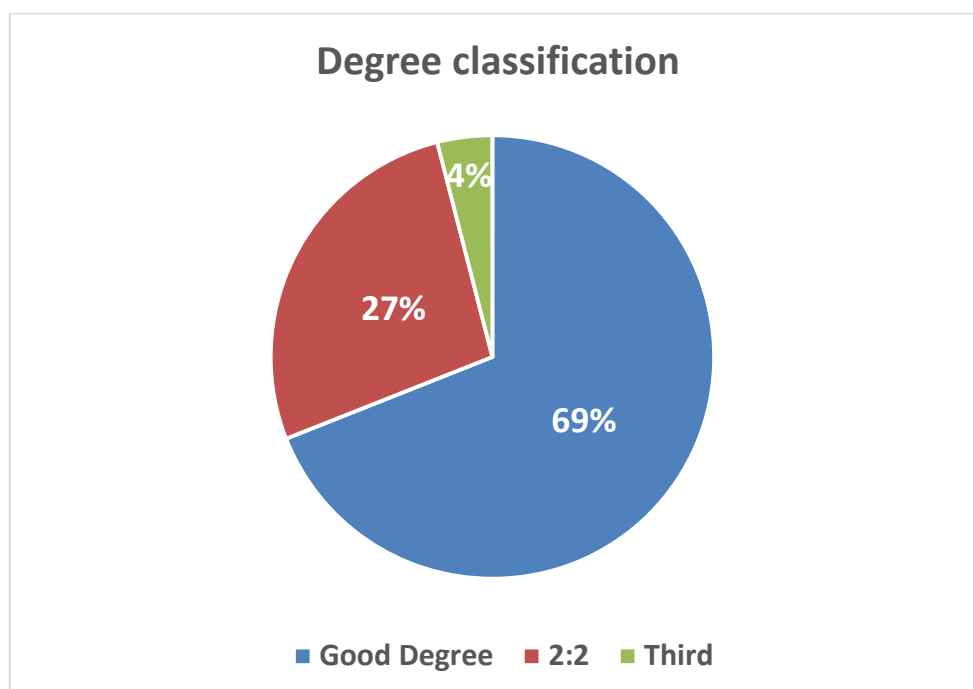
Figure 12: Degree achievement rates by gender



### 8.3 Degree classification

Figure 13 shows that **69%** of the apprentice cohort who achieved a First degree, passed with a good degree, that is, with First or Upper Second class honours. This is higher than the 64% of all UK First degree qualifiers attaining a good degree in 2008-09 (HESA, 2010).

Figure 13: First degree classification of the apprentice cohort who enrolled on full-time First degrees between 2006-07 and 2009-10



## 8.4 Destinations of leavers from higher education

The survey, **Destinations of Leavers from Higher Education (DLHE)** asks leavers from higher education what they are doing six months after graduation. About three quarters of leavers complete the survey. It is difficult to make comparisons between the destinations of the apprentice cohort and leavers of HE in general as apprentices are by nature a work-based population, in employment while completing their framework and therefore with experience of work. The majority of HE leavers in the England leavers' survey will be HE graduates possibly with limited, if no work experience. With this in mind, you would expect that the apprentice HE leaver cohort would have more favourable outcomes than their non-apprentice peers.

## 8.5 Destination activity

DLHE results was obtained for the apprentice cohort tracked in this study who responded to the survey in 2011 and 2012. Table 35 shows the results of 3500 respondents and compares the results with those of all England HE leavers in the 2012 survey. The employment rate of the apprentice cohort is **82.4%** and this is higher than the national **76.4%** rate. A higher proportion of apprentices reported that they were primarily studying and in work than found overall in the national leaver cohort. The **unemployment rate** of the apprentice cohort was lower than the national leaver cohort (**2.4%** compared to 5.0%).

**Table 35: Destinations of Leavers from Higher Education - previous apprentice HE entrant cohorts**

Destination	Apprentice HE leavers 2011 and 2012 DLHE		All England leavers 2012-13
	Count	%	
Full-time work	2085	59.6%	57.2%
Part-time work	250	7.1%	12.4%
Primarily in work and also studying	395	11.3%	3.6%
Primarily studying and also in work	155	4.4%	3.2%
Full-time study	325	8.9%	11.6%
Part-time study	115	3.2%	1.3%
Due to start work	15	0.4%	0.8%
Unemployed	85	2.4%	5.7%
Other	95	2.7%	4.3%
<b>Grand Total</b>	<b>3500</b>	<b>100.0%</b>	<b>100.0%</b>
<b>Total employed</b>	<b>2885</b>	<b>82.4%</b>	<b>76.4%</b>
<b>Total unemployed</b>	<b>85</b>	<b>2.4%</b>	<b>5.0%</b>

## 8.6 Destination salary band

Table 36 shows that the apprentices in full-time work have on average higher salaries than that indicated in the results of the national HE leaver cohort. These figures may be skewed

by the numbers of apprentice leaver respondents at sector level. Closer examination reveals that 28% of apprentice responses were from leavers who had been on an Engineering framework.

**Table 36: Salary bands of Destinations of Leavers in Higher Education - of the apprentice HE entrant cohorts who ended up in full-time employment**

Salary band	Apprentice Leavers 2011 and 2012 DLHE in full-time work		England leavers 2012- 13
	Count	%	
<b>Less than £15,000</b>	135	10.0%	18.2%
<b>£15,000-£19,999</b>	258	19.1%	28.0%
<b>£20,000-£24,999</b>	440	32.5%	31.6%
<b>£25,000-£29,999</b>	251	18.6%	13.3%
<b>£30,000-£34,999</b>	141	10.4%	6.1%
<b>£35,000-£39,999</b>	66	4.9%	1.4%
<b>£40,000+</b>	62	4.6%	1.3%
<b>Total</b>	<b>1353</b>	<b>100.00%</b>	<b>100.0%</b>

## 9. Conclusions

The progression behaviour of advanced level apprentices is likely to be different from other students who enter HE due to the roll on, roll off nature of advanced level apprentice study and the fact that these students have completed their framework while in work and by the time they enter HE have considerable work experience in a specific field. By identifying first time entrants to higher education and tracking their progression over time, a depth of understanding has been gained about patterns of progression. The advanced apprentice cohort has changed between the first and last cohort tracked in this study. There has been a huge growth in the number of 25+ apprentices who are less likely to go onto further study than their younger peers. Furthermore, there has been an increase in the number of apprentices on specific frameworks: Management, Communication Technologies, Health & Social Care, Customer Service and Business Administration have all seen significant growth in numbers. Technical frameworks such as Engineering and Electrotechnical, Construction and Vehicle Repair and Maintenance have not seen growth. All of these factors are likely to contribute to changes in the overall progression rate and an older age composition affects progression rates at every level.

Longitudinal tracking of the 2006-07 cohort (first time higher education entrants) tracked for seven years showed that 19.3% of advanced level apprentices progressed to higher education. Clearly, pathways are important to work based learners entering higher education and this may explain some of the differences at region and framework level. Although 56% of learners who progress to higher education do so within three years of the start of their advanced level apprenticeship, there are still significant numbers progressing four to seven years afterwards.

Where advanced level apprentices chose to study was explored in this study and results revealed the important role that FE colleges have to play in delivering higher education for these part-time work based learners. However, trends reveal that a higher proportion of advanced level apprentices are choosing to move to full-time study than in earlier years and with this move, universities have increased their share of delivery of higher education to advanced level apprentices.

Trends show that the number of actual higher education entrants has increased from 3,890 for the 2006-07 cohort to 5,450 for the 2010-11 cohort however, against a significant rise in advanced level apprentice cohort populations, higher education progression rates actually dipped between the earliest and latest cohort. The dip may in part be due to the fact that many of the 2010-11 cohort progressed to HE in 2012-13, the year that higher HE fees were introduced and when a dip was seen in HE entrant numbers generally. The lower progression rates of a substantially higher number of 25+ apprentices in 2009-10 was also a significant factor here. Progression rates for the young cohort remained fairly stable.

The success rates of apprentices who entered for a full-time first degree in HE were explored for the first time in this update. Results show lower achievement rates than that found nationally where attrition was higher with the apprentice HE cohort. This may reflect the fact that many apprentices have entered with vocational qualifications and may also have found it challenging to move from work to study. Good degree attainment for the apprentice HE cohort was very positive and a higher proportion of apprentices who



completed their first degree attained a good degree than found nationally with all First degree achievers.

Also in this update, was an investigation on the destinations of apprentices who left HE and these results were also very positive. Only 2% of the cohort surveyed were unemployed, lower than the overall HE leaver cohort. Apprentices who left HE also have a higher than average salary than found in the overall national leaver survey.

It is apparent that a group of apprentices do not continue on the same career paths as their apprenticeship framework. Some of them follow the same subject area of study as their advanced level apprenticeship framework but there are others who apparently decide to opt for a different career and study an unrelated higher education subject and this often leads to a transfer to full-time study.

As some FE colleges expand their higher education provision and universities continue to work to widen participation, the information in this study may help to illustrate the opportunities available to increase the progression rate of work-based learners on apprenticeship frameworks. In sectors where there are clear pathways there are lessons to be learned in particular for higher apprenticeships. By fostering a culture of progression which is supported by access and funding, progression for future apprentices in a range of sectors could be a viable and desirable option for the employee, employer and the economy.

# 10. References

- Anderson, A., & Hemsworth, D. (2005). *From Apprenticeship to Higher Education*. UVAC.
- BIS. (2009a). *Higher Ambitions - The Future of Universities in a Knowledge Economy*. BIS.
- BIS. (2009b). *Skills for Growth - The National Skills Strategy*. BIS.
- BIS. (2011). *New Challenges, New Chances*. BIS.
- BIS. (2011a). *Higher Education - Students at the Heart of the System*. BIS.
- BIS. (2011b). *Specification of Apprenticeship Standards in England*. BIS.
- BIS. (2013). *Specification of Apprenticeship Standards in England*. BIS.
- BIS. (2013). *The Future of Apprenticeships in England: Implementation Plan*. BIS.
- BIS. (2014). *The Future of Apprenticeships in England: Guidance for Trailblazers*. BIS.
- BIS. (2015). *Specification of Apprenticeship Standards for England*. London: BIS.
- Browne, J. (2010). *Securing a Sustainable Future for Higher Education - An Independent Review of Higher Education Funding and Student Finance*. BIS.
- Carter, J. (2009). *Progression from Vocational and Applied Learning to Higher Education in England*. UVAC.
- Colahan, M., & Johnson, C. (2014). *Apprenticeships Evaluation: Employers*. BIS.
- Dearing, R. (1997). *Higher Education in the Learning Society*. HMSO.
- DIUS. (2007). *World Class Skills: Implementing the Leitch Review of Skills in England*. DIUS.
- Fuller, A., & Unwin, L. (2014). *Creating and Supporting Expansive Apprenticeships*. National Apprenticeship Service.
- HEFCE. (2006). *Higher Education in FE Colleges - Consultation on HEFCE Policy*. HEFCE.
- HEFCE. (2007). *Pathways to Higher Education - BTEC Courses*. HEFCE.
- HEFCE. (2009). *Pathways to Higher Education - Apprenticeships*. HEFCE.

- HEFCE. (2010, December). *POLAR Young Participation Maps - Polar 2*. Retrieved July 21, 2011, from HEFCE: <http://www.hefce.ac.uk/widen/polar/>
- HEFCE. (2012). *POLAR 3 Young Participation in Higher Education*. HEFCE.
- HEFCE. (2014). *Pressure from All Sides - economic and policy influences on part-time higher education*. Bristol: HEFCE.
- HEFCE. (2014b). *Further Information on POLAR3*. HEFCE.
- HESA. (2010, January 14). *HESA SFR 142 - Higher Education Student Enrolments and Qualifications Obtained at Higher Education Institutions in the UK for the Academic Year 2008-09. Table 6a*. Retrieved from Higher Education Statistic Agency: <https://www.hesa.ac.uk/pis/noncon>
- HESA. (2012). *UKPIs: Non Continuation Rates (including Projected Outcomes) - Table 5 (2008-09)*. Retrieved from Higher Education Statistics Agency: <https://www.hesa.ac.uk/pis/noncon>
- Higton, J., Emmett, R., & Halliday, R. (2014). *Apprenticeship Evaluation: Learners*. BIS.
- IFF Research. (2011). *Prior Qualifications of Adult Apprentices 2009-10*. BIS.
- Joslin, H., & Smith, S. (2013). *The Progression of Apprentices into Higher Education*. BIS.
- Joslin, H., & Smith, S. (2013b). *Progression of Apprentices into Higher Education in London 2004 -2010*. Linking London.
- Joslin, H., & Smith, S. (2014). *Progression of Apprentices to Higher Education - Cohort Update*. BIS.
- Leitch, S. (2006). *Leitch Review of Skills - Prosperity for all in the Global Economy - World Class Skills*. HMSO.
- Milburn, A. (2012). *University Challenge:How Higher Education CanAdvance Social Mobility*. Cabinet Office.
- NAS. (2012). *Meeting Employer Skills Needs - Consultation on Criteria for Higher Apprenticeships at Degree Levels* . National Apprenticeship Service.
- Oxford Economics. (2014). *Macroeconomic Influences on the Demand for Part-time Higher Education in the UK*. Oxford: Oxford Economics.
- Panel on Fair Access to the Professions. (2009). *Unleashing Aspiration: The Final Report of the Panel on Fair Access to the Professions*. Cabinet Office.
- Richard, D. (2012). *Richard Review of Apprenticeships*. BIS.
- Skills Commission. (2009). *Progression through Apprenticeships*. Skills Commission.

Smith, S., Joslin, H., & Jameson, J. (2015). *Progression of College Students in England to Higher Education*. BIS.

UKCES. (2010). *Progression from Vocational and Applied Learning to Higher Education across the UK*. UK Commission for Employment and Skills.

© Crown copyright 2015

You may re-use this information (not including logos) free of charge in any format or medium, under the terms of the Open Government Licence.

Visit [www.nationalarchives.gov.uk-doc-open-government-licence](http://www.nationalarchives.gov.uk-doc-open-government-licence), write to the Information Policy Team, The National Archives, Kew, London TW9 4DU, or email: [psi@nationalarchives.gsi.gov.uk](mailto:psi@nationalarchives.gsi.gov.uk)

This publication is also available on our website at [www.bis.gov.uk](http://www.bis.gov.uk)

Any enquiries regarding this publication should be sent to:

Department for Business, Innovation and Skills  
1 Victoria Street  
London SW1H 0ET  
Tel: 020 7215 5000

If you require this publication in an alternative format, email [enquiries@bis.gsi.gov.uk](mailto:enquiries@bis.gsi.gov.uk), or call 020 7215 5000

BIS/15/530