

Cheshire and Warrington Labour Market - Construction - Design, Surveying & Planning

The Cheshire and Warrington Data and Labour Market Steering Group have commissioned this work which takes the qualification pathways that have been developed by the Institute for Apprenticeships and Technical Education, mapping different occupations against them and contextualising them for the Cheshire and Warrington economy.

Other Pathways include:

- Construction – Building Services Engineering Pathway
- Construction – Onsite Construction Pathway
- Digital Route
- Logistics Pathway
- Science Pathway
- Transport Pathway

The pathways will be updated as necessary and, by the end of October, all the draft pathways will be posted on the LEP website.

Cheshire and Warrington Briefing: Construction - Design, Surveying & Planning Occupations

Introduction

This briefing covers some key facts about Construction - Design, Surveying & Planning Occupations in Cheshire and Warrington:

- What sort of jobs are there?
- How many jobs are there and what do these jobs pay?
- Which employers are recruiting and where are jobs being advertised?
- What sort of skills are employers looking for?
- What sort of apprenticeships are available?
- What sort of courses can young people and adults do?

Construction - Design, Surveying & Planning Occupations Description

The types of jobs in Construction - Design, Surveying & Planning are:

- Design and Surveying Technician
- Design and Surveying Advanced Technician
- Design and Surveying Professional

A fuller description of the occupations in Construction - Design, Surveying & Planning Pathway¹ can be found at Annex 1

Construction - Design, Surveying & Planning wages in Cheshire and Warrington

The table below sets out details on job numbers and the median wages that different occupations that fall into the Construction - Design, Surveying & Planning pathway attract in Cheshire and Warrington.

Job Numbers and median wages of Construction - Design, Surveying & Planning occupations in Cheshire and Warrington		
	2021 Jobs	Median Wages
Civil Engineers	1,345	£41,042
Architects	535	£40,926
Town Planning Officers	271	£34,451
Quantity Surveyors	886	£46,488
Chartered Surveyors	1,293	£34,651
Chartered Architectural Technologists	41	£55,886
Building and Civil Engineering Technicians	361	£27,685
Architectural and Town Planning Technicians	426	£28,863
Estimators, Valuers and Assessors	1,321	£30,422
Inspectors of Standards and Regulations	701	£30,535
<i>Source: EMSI Analyst</i>		

¹ This is the Construction - Design, Surveying & Planning pathway as described in the Institute for Apprenticeships and Technical Education (IFATE) Occupational Maps <https://www.instituteforapprenticeships.org/occupational-maps/>

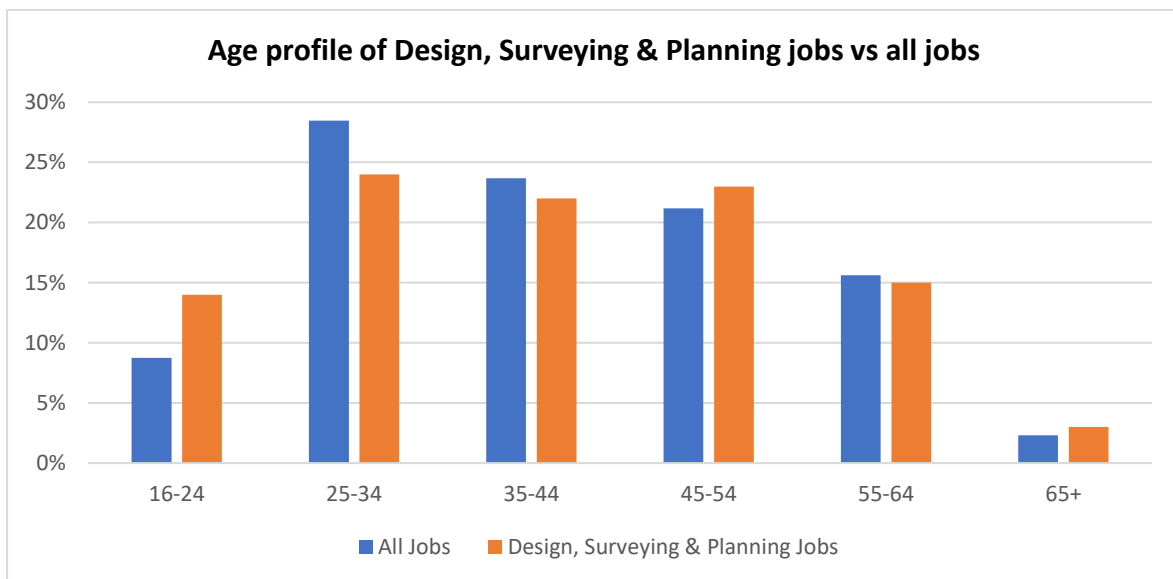


Construction - Design, Surveying & Planning jobs in Cheshire and Warrington²

- In 2021, there were over 7k of these jobs in Cheshire and Warrington³.
- About 2k of these jobs were at Level 3, and about 5k required qualifications at Level 4+.
- Over the next ten years, over a third of these jobs will need to be filled by new entrants because of retirements and similar.
- Town Planning Officers and Chartered Surveyors are at some risk of automation in the future.
- There are about the same number of jobs like this in Cheshire and Warrington as would be expected from the national average.

Age profile of Construction - Design, Surveying & Planning jobs

The age profile of employees in the Construction Design, Surveying & Planning pathway has a higher proportion of young people than is the case for all jobs.



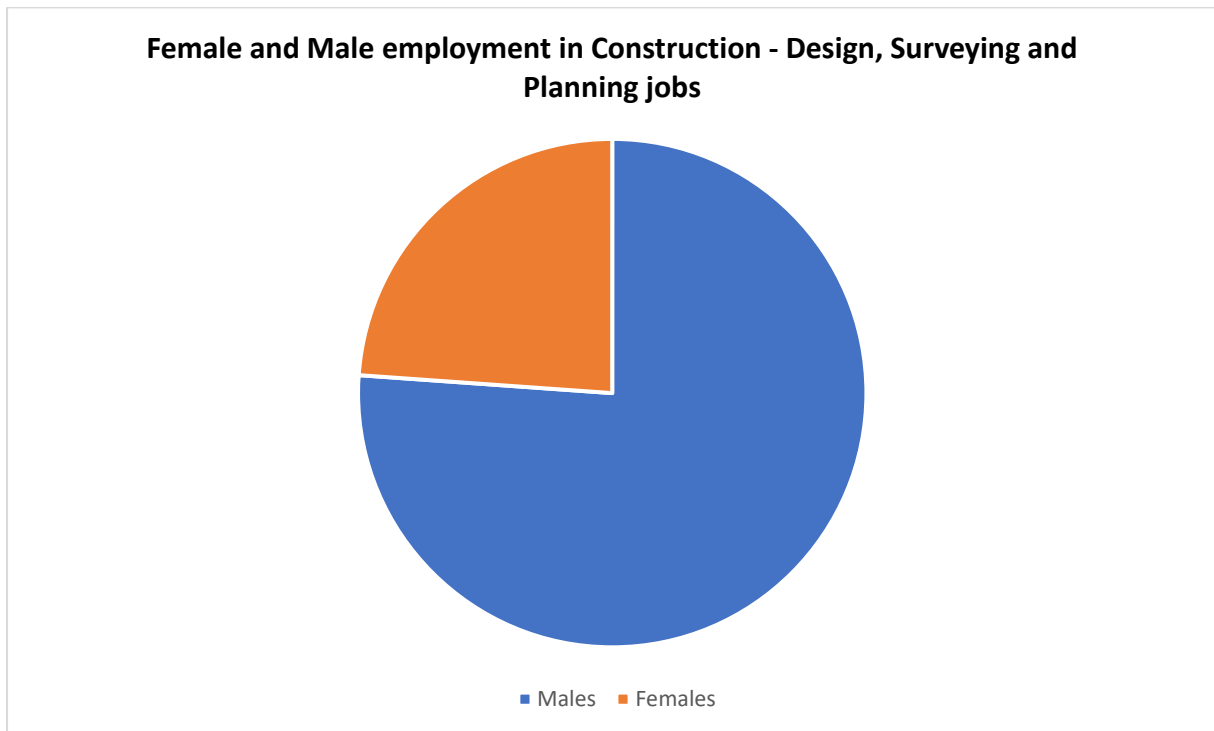
Source: EMSI Analyst

² For mapping of the Institute for Apprenticeships and Technical Education (IFATE) Construction - Design, Surveying & Planning pathway to 4-digit SOC codes see Annex 2.

³ Data in this section from EMSI Analyst.



Gender profile of Construction - Design, Surveying & Planning Jobs



Source: EMSI Analyst

Job postings⁴

- In the last five years, there have been about 6k unique job postings for this type of job in C&W (excluding staffing companies) with about 2k in Cheshire West and Chester, 1k in Cheshire East, and 3k in Warrington.
- These jobs were mainly advertised in Warrington (2,905); Chester (701); Northwich (686); Crewe (360); Macclesfield (180); Knutsford (156); Ellesmere Port (148); and Wilmslow (94).
- The average number of times a role like this gets advertised in Cheshire and Warrington has increased from 3 in 2016 to 4 in 2021. This may indicate that employers are finding these roles slightly harder to fill recently.
- Top recruiters in Cheshire and Warrington (excluding staffing agencies) include Atkins; Arcadis; AECOM; Jacobs; United Utilities; Kingsley; Galliford Try Plc; Millbank Holdings; and Navartis Limited.
- The most frequently advertised job titles in Cheshire and Warrington are for Quantity Surveyors; Surveyors; Estimators; Project Quantity Surveyors; Building Surveyors; Architectural Technicians; Structural Engineers; Geotechnical Engineers; Site Engineers; and Highway Engineers.

⁴ All data in this section and the next is from EMSI Analyst.

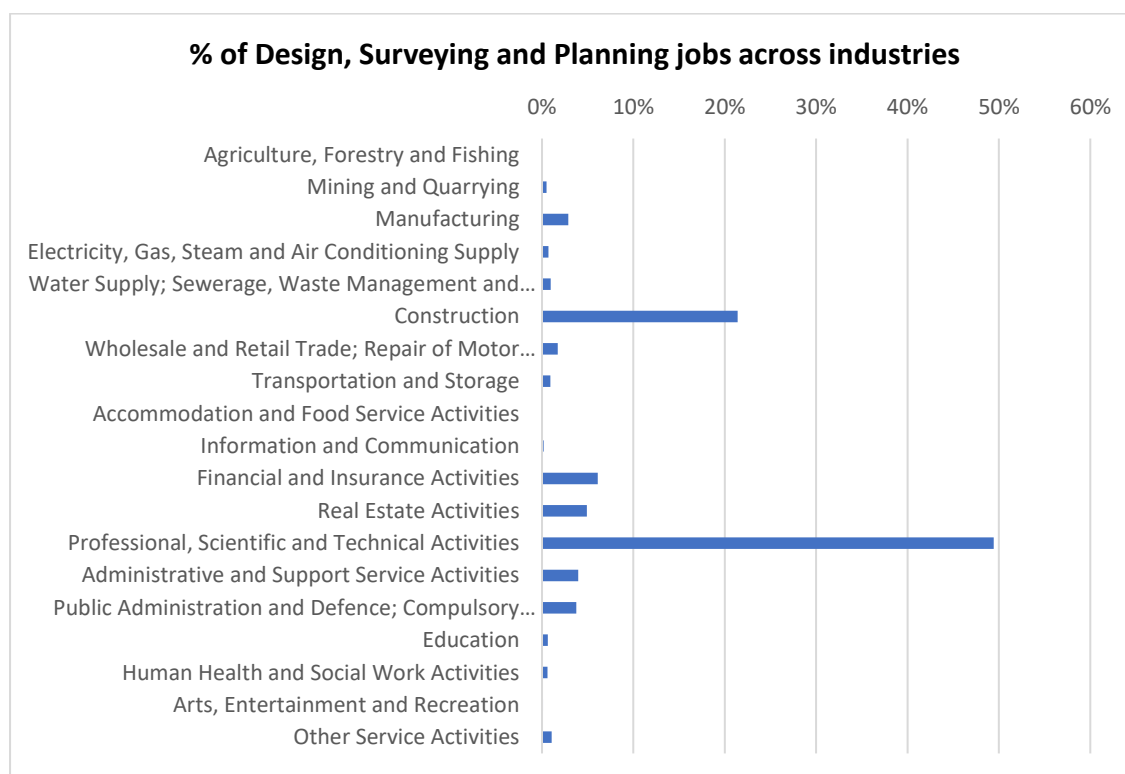


Hard Skills sought by employers

Hard skills sought by employers for Construction - Design, Surveying & Planning Jobs in C&W	
Skill	Frequency in Postings
Surveying	16%
Civil Engineering	14%
Procurement	10%
AutoCAD	9%
Estimators	9%
Engineering Design Process	8%
Subcontracting	7%
Structural Engineering	6%
Autodesk Revit	5%
Supply Chain	5%
Risk Analysis	4%
Contract Management	4%
Building Information Modeling	4%
Forecasting	4%
Auditing	4%
Project Management	4%
Geotechnical Engineering	4%
Commercial Management	4%
Business Development	4%

Source: EMSI Analyst

Which industry sectors in Cheshire and Warrington employ people in these occupations?



Source: EMSI Analyst



Apprenticeships

In the past five years, there have been 214 apprenticeships advertised in Construction - Design, Surveying & Planning occupations in Cheshire and Warrington. These opportunities have been thinly spread aside from a concentration of just less than 40 in Warrington.

In the academic year 2019/20, 60 residents of Cheshire and Warrington started an apprenticeship in a Construction - Design, Surveying & Planning occupation. 90% of these apprenticeships were Level 4+. Chartered Surveyor was the apprenticeship standard with the most starts.

Apprenticeships in Construction - Design, Surveying & Planning occupations started by people in Cheshire and Warrington 2019-2020			
Row Labels	Level 3	Level 4+	Total
Building Control Surveyor (integrated degree)		2	2
Chartered Surveyor (degree)		25	25
Civil Engineer (degree)		12	12
Civil Engineering Technician	5		5
Construction Management		12	12
Construction Quantity Surveying Technician		2	2
Construction Quantity Surveyor (degree)		1	1
Surveying Technician	1		1
<i>Source: ESFA localities datacube (residency) 2019-2020</i>			

College Courses

The most popular course with young people in Cheshire and Warrington in the 2019/20 academic year that fed into Construction - Design, Surveying & Planning occupations was the BTEC Extended Diploma in Construction and the Built Environment. The T-level in design, surveying and planning for construction is being rolled out now. This is intended to replace other Level 3 vocational qualifications.

Most popular Construction - Design, Surveying & Planning qualifications taken by 16-18yr olds			
	Level 3	Level 4+	Total
BTEC 90-credit Diploma in Construction and the Built Environment (QCF)	1		1
BTEC Diploma in Construction and the Built Environment (QCF)	3		3
BTEC Extended Diploma in Construction and the Built Environment (QCF)	39		39
BTEC Higher National Certificate in Construction and the Built Environment		2	2
BTEC National Foundation Diploma in Construction and the Built Environment	1		1
BTEC Subsidiary Diploma in Construction and the Built Environment (QCF)	1		1
Diploma in Design, Engineer, Construct! The Digital Built Environment (RQF)	2		2
<i>Source: ESFA localities datacube (residency) 2019-2020</i>			



More than half of the courses taken by adults that feed into these occupations were at Level 4+ with the most popular of those being the HNC in Construction and the Built Environment.

Most popular Construction - Design, Surveying & Planning qualifications taken by adults in C&W				
	Below Level 2	Level 3	Level 4+	Total
BSc (Hons) in Construction and Project Management			2	2
BSc (Hons) in Construction Project Management- Sheffield Hallam University			1	1
BTEC Certificate in Construction	17			17
BTEC Diploma in Construction and the Built Environment (QCF)		1		1
BTEC Extended Diploma in Construction and the Built Environment (QCF)		3		3
BTEC Higher National Certificate in Construction and the Built Environment			16	16
BTEC HND Diploma in Construction and the Built Environment			1	1
BTEC Subsidiary Diploma in Construction and the Built Environment (QCF)		2		2
Foundation Degree in Construction			3	3
Foundation Degree in Countryside Resource Management - Reasesheath College			3	3
Higher National Certificate in Construction			8	8
Source: ESFA localities datacube (residency) 2019-2020				

Annex 1: Construction - Design, Surveying & Planning Pathway

Construction - Design, Surveying & Planning Pathway		
Technical Occupations	Higher Technical Occupations	Professional Occupations
<p>Design & Surveying Technician</p> <p>Design, analyse, plan for site engineering and construction projects. Specialisms are common (e.g. rail infrastructure, asbestos management). Significant capability in the use of IT/digital technology, data collection, analysis and presentation</p> <p>Asbestos Analyst & Surveyor (L3) Building Services Design Technician (L3) Civil Engineering Technician (L3) Construction Support Technician (L3) Digital Engineering Technician (L3) Geospatial Survey Technician (L3) Landscape Technician (L3) Surveying Technician (L3)</p> <ul style="list-style-type: none"> • Building Surveying Technicians - Commercial Property Surveying • Technicians • Consultant (Professional) Project • Management Technicians - Consultant (Professional) Quantity • Surveying Technicians • Land Surveying Technicians (including rural, minerals and waste management and planning and development) - Residential Property Surveying • Technicians • Valuation Surveying Technicians 	<p>Design & Surveying Advanced Technician</p> <p>Identify and monitor client requirements, H&S risks, regulatory compliance, environmental impact, build quality, co-ordinate information and manage build costs.</p> <p>Acoustics Technician (L4) Construction Design & Build Technician (L4) Construction Site Engineering Technician (L4) Construction Surveying Technician (L4) Land Referencer (L4) Town Planning Assistant (L4)</p>	<p>Design & Surveying Professional</p> <p>Building/structure design, research, commercial cost management, contracts management with a wide range of knowledge of current technology developments and options, contracts, procurement and tracking. Consults with clients to determine functional and spatial requirements of new or renovated structures</p> <p>Architect (L7) Architectural Assistant (degree) (L6) Building Control Surveyor (integrated degree) (L6) Building Services Design Engineer (L6) Chartered Landscape Professional (L7)</p> <ul style="list-style-type: none"> • Landscape & Parks Management • Landscape Design - Landscape Planning Chartered Surveyor (degree) (L6) • Building Surveying • Property • Quantity Surveying & Project Management <p>Chartered Town Planner (degree) (L7) Civil Engineer (degree) (L6) Civil Engineering Site Management (degree) (L6) Construction Quantity Surveyor (degree) (L6) Design & Construction Management (degree) (L6) Energy Consultant Geospatial Mapping & Science (degree) (L6)</p> <ul style="list-style-type: none"> • Geospatial Engineering • Geospatial Surveying • Hydrography • Utilities



Annex 2 Mapping of SOC 2010 codes to the Construction - Design, Surveying & Planning Pathway

There is no simple mapping of the IFATE Occupational Maps to 4-digit SOC codes. The codes below will contain the occupations included in the Construction - Design, Surveying & Planning Pathway but may also include others.

SOC Code	Occupation Description
2121	Civil engineers
2431	Architects
2432	Town planning officers
2433	Quantity surveyors
2434	Chartered surveyors
2435	Chartered architectural technologists
3114	Building and civil engineering technicians
3121	Architectural and town planning technicians
3531	Estimators, valuers and assessors
3565	Inspectors of standards and regulations

