

November 2021

Educational Requirements for an Engineering Technician

Higher National Certificate (HNC), Higher National Diploma (HND), Foundation Degrees, National Certificate and National Diploma Courses

The courses listed have been approved against standards set by the Institution of Civil Engineers, Institution of Structural Engineers, the Chartered Institution of Highways & Transportation, the Institute of Highway Engineers, the Permanent Way Institution and endorsed by the Engineering Council.

Please note that from Autumn 2004 institutions were no longer required by the Engineering Council to accredit individual college HNC/D programmes. The JBM institutions have approved the HNC/D programmes in Civil Engineering awarded by Pearson (BTEC), formerly Edexcel, and SQA and for this reason the formal accreditation periods are being allowed to lapse and may not have been extended after this date, but the courses continue to be recognised. From 2011, Foundation Degrees in Civil Engineering have been accredited by the member institutions of the JBM.

All the courses listed below will meet the educational requirements for an Engineering Technician. A Higher National from the IEng listing will meet the educational requirements for an Engineering Technician.

The HND and Foundation Degree courses in Civil Engineering would need to be topped up with a period of Further Learning after graduation, in order to meet the academic requirements for Incorporated Engineer status (although some courses before 1999 may fully meet the academic requirements for IEng). Holders of HNC would require a longer period of Further Learning. This further learning can be achieved in a combination of ways – full or part-time in HE, distance learning or work-based learning.

Graduates from the HNC/D or Foundation Degree courses in Construction, Construction Management, Sustainable Construction etc. will be required to apply to one of the JBM member institutions for an academic assessment of their qualifications in order that they can be advised of the additional study that will be required to meet the academic base for IEng registration. These graduates will meet the educational requirements for an Engineering Technician.

Historical data on all accreditation activities is held at the ICE, IStructE, CIHT, IHE and PWI and you should contact the Institutions directly if you have any queries on courses pre-1999.

Mode of Course

FT = Full Time

PT = Part Time

DL = Distance Learning

List of Technician Courses		
Abbreviations – BTEC (Business and Technology Education Council) HNC (Higher National Certificate) HND (Higher National Diploma) Mode of Study – FT (Full Time) PT (Part Time) SW (Sandwich)		
<u>Educational Establishment</u>	<u>Course Title</u>	<u>Mode of Study</u>
Accrington and Rossendale College	HNC Construction & the Built Environment HND Construction & the Built Environment	FT/PT FT/PT
Ayrshire College (Ayr campus)	NC Built Environment HNC Construction Management HNC Construction Management with Practical Skills HND Civil Engineering	FT FT/PT FT PT
Barking and Dagenham College	BTEC Extended Diploma Construction and The Built Environment BTEC BTEC Extended Diploma Construction and The Built Environment Level 3 BTEC Level 4 Construction and the Built Environment	FT PT PT
Barnsley College	Level 3 Diploma Construction and the Built Environment Level 3 Extended Diploma Construction and the Built Environment	PT FT
Bedford College	BTEC Level 3 Diploma Construction BTEC HNC Construction BTEC HND Construction BTEC HNC Construction (Civil Engineering)	PT PT PT PT
Belfast Metropolitan College	HNC Construction and the Built Environment	PT
Bexley College	HND Construction and the Built Environment – Construction Management	PT

Blackburn College	HNC Construction and the Built Environment	FT
Blackpool and the Fylde College	HNC Construction and the Built Environment Level 3 Extended Diploma Construction and the Built Environment	PT FT/PT
Bolton College	HNC Civil Engineering HND Civil Engineering HNC Construction	PT FT PT
University of Bolton	HNC BTEC Construction and The Built Environment (Civil Engineering) HND BTEC Construction and The Built Environment (Civil Engineering)	PT PT
Bradford College	BTEC Level 3 Extended Diploma in Civil Engineering HNC Construction and the Built Environment (Civil Engineering) HND Construction and the Built Environment (Civil Engineering)	FT FT FT
Bridgend College	HNC Construction & the Built Environment (Civil Engineering) HNC Construction & the Built Environment (Construction)	PT PT
Bromley College of Further and Higher Education	HNC Construction and the Built Environment	PT
Burton and South Derbyshire College	HNC Construction and the Built Environment HND Construction and the Built Environment	PT PT
Chelmsford College	BTEC Level 3 Diploma Construction BTEC Level 3 Extended Diploma Construction BTEC Level 3 Diploma Civil Engineering HNC Civil Engineering HNC Construction BTEC Level 3 Diploma Civil Engineering	PT FT PT PT PT PT
Chesterfield College	HNC Construction and Built Environment Level 3 Diploma in Construction and the Built Environment	PT FT
City College Plymouth	HNC Civil Engineering HNC Construction	PT/FT PT/FT

City of Bath College	HNC Construction and the Built Environment HND Construction and the Built Environment	PT PT
City of Bristol College	HNC Construction and the Built Environment (Construction) HNC Construction and the Built Environment (Civil Engineering)	PT PT
City of Westminster College	BTEC Level 3 Diploma in Civil Engineering BTEC HNC Civil Engineering	PT PT
Colchester Institute	Construction and the Built Environment Level 3 Extended Diploma HNC Construction and the Built Environment	PT PT
Coleg Gwent	HNC Civil Engineering BTEC Dip L3 Construction (Civil Engineering) Level 3	PT/FT PT
Coleg Cambria	HNC Construction and the Built Environment (Civil Engineering)	PT
College of Contract Management	Advanced Diploma of Structural Engineering	PT
Cornwall College	HNC Construction and the Built Environment	PT
Croydon College	Level 3 – Construction and the Built Environment BTEC Extended Diploma Level 4 HNC - Construction and the Built Environment BTEC Diploma	FT PT
Doncaster College	BTEC Level 3 Diploma Construction and the Built Environment HND Construction HNC Construction and the Built Environment	PT/FT FT PT
Dudley College of Technology	BTEC HNC Construction	PT
Dundee and Angus College	HND Civil Engineering NC Civil Engineering	FT FT
Windsor Forest Colleges (previous name East Berkshire College)	HND Construction	PT
East Surrey College	HNC Construction	PT

	HND in Construction Construction Level 3 Extended Diploma BTEC	FT FT
Eastleigh College	BTEC Level 3 Extended Diploma Construction and Built Environment BTEC Level 3 Diploma Construction and Built Environment Level 4 HNC Construction	FT PT PT
ECITB	Diploma in Engineering Construction Design and Draughting (SCQF Level 6)	PT
Edinburgh College, Granton Campus	HND Civil Engineering	FT
Exeter College	HNC Civil Engineering HNC Construction Level 4 HND Construction Level 4 HND Civil Engineering – Higher apprenticeship Level 4 HND Civil Engineering – Higher apprenticeship	PT PT PT PT PT
Fife College (Glenrothes Campus)	HNC Civil Engineering NC Civil Engineering HNC Construction Management NC Built Environment	FT FT FT/PT FT
Forth Valley College	HNC Civil Engineering NC Civil Engineering HNC Construction Management	FT FT PT
Gateshead College	Level 3 Construction and the Built Environment HND Diploma Construction and the Built Environment HNC Diploma Construction and the Built Environment	FT PT PT
Glasgow Clyde College	HNC Construction Management	PT
Glasgow Kelvin College	NC Civil Engineering HNC Civil Engineering HND Civil Engineering HNC Construction Management	FT/PT FT/PT FT/PT FT/PT

University of Greenwich	HNC Construction Management	PT
Grimsby Institute of Further & Higher Education	HND Construction HNC Construction	FT FT
Gloucestershire College of Arts & Technology	HNC Construction	PT
Guildford College of Further & Higher Education	HND Construction HNC Civil Engineering	PT PT
Havering College of Further & Higher Education	BTEC HNC Construction and the Built Environment	PT
Sussex Coast College Hastings	HNC Construction	PT
Highbury College Portsmouth	HNC Diploma Construction and the Built Environment HND Diploma Construction and the Built Environment Level 3 Diploma in Construction and the Built Environment	PT PT PT
University of the Highlands and Islands	HNC Civil Engineering	FT/PT
Kirklees College	HNC Construction BTEC Level 3 Extended Diploma Construction	PT FT
Hugh Baird College of Further Education	BTEC Level 3 Extended Diploma Construction	FT
Hull College	HNC Certificate in Construction and the Built Environment (Construction Pathway) HNC Certificate in Construction and the Built Environment (Civil Engineering Pathway) HND Diploma Construction and the Built Environment (Top Up)	PT PT PT
Inverness College	HNC Civil Engineering HNC Construction Management	FT/PT FT/PT
Lakes College – West Cumbria	Level 3 Diploma in Construction and the Built Environment (with or without apprenticeship option)	PT

Leeds College of Building	BTEC HNC Construction and the Built Environment (Civil Engineering) BTEC Level 5 HND Construction Management (Sustainability) Higher Apprenticeship HNC Civil Engineering HND Civil Engineering HND in Construction Architectural Technology HND in Construction Management	PT PT PT/FT PT/FT PT/FT PT/FT
Leicester College	HNC Construction in the Built Environment HND Construction	PT PT
Lincoln Newark	BTEC Level 3 Diploma Construction and Civil Engineering BTEC Level 3 Extended Diploma Construction and Civil Engineering BTEC HND Construction and the Built Environment Civil engineering BTEC HND Construction and the Built Environment BTEC HNC Construction and the Built Environment Civil engineering BTEC HNC Construction and the Built Environment	PT FT PT/FT PT/FT PT PT
Liverpool Community College	BTEC Level 3 Diploma Civil Engineering BTEC Level 3 Diploma Construction BTEC Level 3 Extended Diploma Construction HNC Construction and Built Environment	PT PT PT PT
Liverpool John Moores University	HNC Civil Engineering HNC Construction and Property	FT/PT FT/PT
Llandrillo College	Certificate of Higher Education (CertHE) Civil Engineering	PT
London College, UCK (University College Kensington)	HNC Construction and the Built Environment (Civil Engineering) HND Construction and the Built Environment (Civil Engineering)	PT/FT PT/FT
Malta College of Arts Science and Technology	Level 3 Diploma in Construction Engineering	FT

Mid-Kent College of Higher & Further Education	HND Construction HNC Construction HND Civil Engineering HNC Civil Engineering Level 3 Diploma Construction and the Built Environment	FT/PT PT FT/PT PT FT
Moulton College	HNC Construction and the Built Environment (Civil Engineering) HNC Construction and the Built Environment HND Construction and the Built Environment (Civil Engineering) HND Construction and the Built Environment	PT PT PT/FT PT/FT
Neath Port Talbot College	BTEC Level 3 Extended Diploma Construction and Civil Engineering HNC Construction and the Built Environment (Civil Engineering) BTEC Level 3 Diploma in Construction & The Built Environment (Civil Engineering) HNC Construction and the Built Environment (Construction Management)	FT PT/FT PT PT/FT
New College Durham	BTEC Level 3 Diploma Construction/Civil Engineering BTEC Level 3 Extended Diploma Construction/Civil Engineering HND Civil Engineering and the Built Environment HNC Construction and the Built Environment (Civil Engineering) HNC Construction and the Built Environment HND Construction and the Built Environment (Top-Up) BTEC Level 3 Diploma in Engineering Railway Engineering Design Technician	FT FT PT PT PT PT PT
New College Nottingham	HNC Construction and Built Environment (Civil /Construction)	FT
North Lindsey College	HNC Construction and the Built Environment HND Construction and the Built Environment	PT PT
North East Scotland College	National Certificate: Built Environment HNC Built Environment HNC Engineering Practice	FT FT/PT FT

North West Regional College	BTEC Level 3 Extended Diploma Construction and the Built Environment BTEC Level 3 Diploma Construction and the Built Environment BTEC Level 3 National Diploma Construction BTEC HNC Construction (Civil Engineering) BTEC HNC Construction Built Environment, with Architecture and Building	FT FT PT PT PT
University of Northampton	HNC Civil Engineering HNC Construction Management	FT/PT PT
Norwich City College of Further & Higher Education	HND Construction and the Built Environment BTEC Level 3 Diploma ICE Apprenticeship Construction and Built Environment (Civil Engineering)	FT FT/PT PT
Oaklands College	Level 3 Diploma Construction and the Built Environment Level 3 Extended Diploma Construction and the Built Environment Level 3 Diploma Civil Engineering HNC Construction Management HNC Civil Engineering Studies BTEC Level 3 Diploma ICE Apprenticeship Construction and the Built Environment (Civil Engineering) HNC in Construction and the Built Environment	PT FT PT PT PT PT FT
Military Technological College, Oman	Diploma in Higher Education Civil Engineering Advanced Diploma in Construction Engineering Management	FT FT
Pearson	T Level Technical Qualification in Design, Surveying and Planning (Civil Engineering Occupational Specialism)	FT
Perth College	NC Built Environment HNC Construction Management	FT PT/FT
Peterborough Regional College	BTEC Level 3 Diploma Construction and the Built Environment HND Civil Engineering HNC Civil Engineering HNC Construction	PT FT FT/PT PT

University Centre Peterborough	HNC Construction Management HND Civil Engineering HNC Civil Engineering HNC Construction	FT FT/PT FT/PT FT/PT
PETROC – College of Further and Higher Education	HNC Construction Level 3 Diploma Construction and the Built Environment	FT/PT FT
Redcar and Cleveland College	BTEC Diploma Level 3 Civil Engineering	PT
Reading College	HNC Construction and the Built Environment BTEC Level 3 Diploma Construction and Civil Engineering BTEC Level 3 Diploma ICE Apprenticeship Construction and the Built Environment (Civil Engineering)	PT PT PT
Richmond Upon Thames College	BTEC Level 3 Extended Diploma Construction and the Built Environment HNC Construction and the Built Environment (Civil Engineering)	FT/PT FT/PT
Salford City College	HNC Construction – Building Services Engineering HND Construction – Building Services Engineering HNC Construction and the Built Environment	FT/PT FT/PT PT
Solihull College	Level 3 Diploma Construction and the Built Environment Level 3 Extended Diploma Construction and the Built Environment BTEC Level 3 Diploma ICE Apprenticeship Construction and the Built Environment (Civil Engineering)	FT FT PT
Somerset College of Arts & Technology (University Centre Somerset)	HNC Construction and the Built Environment (Civil Engineering) HNC Construction and the Built Environment	PT PT
London South Bank University	BTEC HNC Civil Engineering BTEC HNC Construction Construction Site Engineering Technician Apprenticeship BTEC HNC Civil Engineer Apprenticeship Degree	PT FT/PT PT FT

South Cheshire College	BTEC Level 3 Extended Diploma Civil Engineering Constructing the Built Environment Advanced Technical Diploma (Construction) C&G Level 3	FT/PT FT/PT
South & City College, Birmingham	BTEC Extended Diploma Construction HNC in Construction and the Built Environment HND in Construction and the Built Environment	PT PT PT
South Devon College	Level 3 Diploma Construction and the Built Environment Level 3 Extended Diploma Construction Level 3 Extended Diploma Engineering	FT FT FT
South Thames College	BTEC Level 3 Diploma ICE Apprenticeship Construction and Built Environment (Civil Engineering) HNC Diploma Civil Engineering	PT PT
South West College	BTEC Level 3 Diploma Civil Engineering BTEC Level 3 Extended Diploma Sustainable Construction with Civil Engineering	PT FT
Southampton City College	BTEC Level 3 Diploma Civil Engineering BTEC Diploma Construction	FT FT
South Eastern Regional College	BTEC HNC Construction and Built Environment BTEC HND Construction and Built Environment BTEC Extended Diploma Construction and the Built Environment Diploma Level 3 Civil Engineering for Technicians (Institution of Civil Engineers) Diploma Level 3 Construction and the Built Environment	PT/FT PT FT FT PT
Southampton Solent University	HNC Civil Engineering	PT
Stephenson College, Coaville	HNC Construction and the Built Environment Diploma Construction Management HNC Level 4 Construction and the Built Environment	PT PT FT

Stockport College of Further & Higher Education	BTEC HNC Conversion to HND in Civil Engineering BTEC HNC conversion to HND in Construction & the Built Environment BTEC HNC Construction & the Built Environment BTEC HND Construction & the Built Environment Top-up	PT PT PT FT
University of Wales Trinity Saint David (formerly Swansea Metropolitan University)	HNC Civil Engineering Studies HND Civil Engineering Studies	FT/PT FT/PT
Swindon College	BTEC HNC Construction and built Environment (Civil Engineering) BTEC HNC Construction and built Environment (Construction) Level 3 Apprenticeship in Civil Engineering	PT FT PT
Tameside College	HNC Civil Engineering	PT
The University of Teesside	HNC Civil Engineering Studies	PT
Trailblazer Employer Group	BTEC Level 3 Diploma in Engineering in Railway Engineering Design Technician Trailblazer	PT
The City of Liverpool College	Level 3 Diploma Civil Engineering Level 3 Diploma Construction Level 3 Extended Diploma Construction HNC Construction and the Built Environment BTEC Level 3 Diploma ICE Apprenticeship Construction and the Built Environment (Civil Engineering)	PT PT PT PT/FT PT
The City of Wolverhampton College	HNC Construction and the Built Environment Diploma Level 3 Construction and the Built Environment	PT PT
The College of North West London	Level 3 Diploma Construction HNC Construction and the Built Environment HND Construction and the Built Environment BTEC Level 3 Diploma ICE Apprenticeship Construction and the Built Environment (Civil Engineering)	PT PT FT PT
The College of West Anglia	BTEC HNC Construction (Construction and the Built Environment) BTEC Level 3 Extended Diploma Construction	PT PT

The Isle of Man College	BTEC Level 3 Extended Diploma Construction and the Built Environment BTEC HNC Construction and the Built Environment	FT FT/PT
The Manchester College	BTEC HNC Construction and the Built Environment BTEC HND (top-up) Construction and the Built Environment ND Construction and the Built Environment	FT/PT PT PT
The Oldham College	BTEC Level 3 Construction Management	FT
The Sheffield College	BTEC Level 4 HNC Construction BTEC Level 3 Construction and the Built Environment	FT FT
Technical Academy Scotland	HNC Structural Engineering HND Civil Engineering	FT/PT FT/PT
University of South Wales	HNC Civil Engineering	PT
University of Salford	HNC Construction	FT/PT
Wakefield College	HNC Construction and the Built Environment (Civil Engineering Pathway) HND Construction and the Built Environment (Civil Engineering Pathway) HNC Construction and the Built Environment (Construction Pathway) HND Construction and the Built Environment (Construction Pathway) Level 3 Extended Diploma Construction and the Built Environment (Civil Engineering) BTEC Level 3 Diploma ICE Apprenticeship Civil Engineering	PT/FT PT PT PT FT PT
West College Scotland	HNC Construction Management	FT
University of Wolverhampton	HNC Civil Engineering Studies HND Civil Engineering HND Construction and the Built Environment	PT FT FT
Walsall College	BTEC HNC Construction and the Built Environment	PT
Warrington Collegiate	HNC/D Construction and the Built Environment	PT/FT

West Lothian College	NC Civil Engineering HNC Civil Engineering HNC Civil Engineering Management	FT FT FT
West Nottinghamshire College	Extended Diploma in Construction and the Built Environment – Level 3 HNC Construction and the Built Environment – Level 4 HND Construction and the Built Environment (Construction Management) Level 5	PT/FT PT/FT PT/FT
West Suffolk College	Level 3 Extended Diploma Construction and the Built Environment Construction and the Built Environment Extended Diploma Level 3 Year 2	FT FT
Wirral Metropolitan College	BTEC HNC Construction	PT