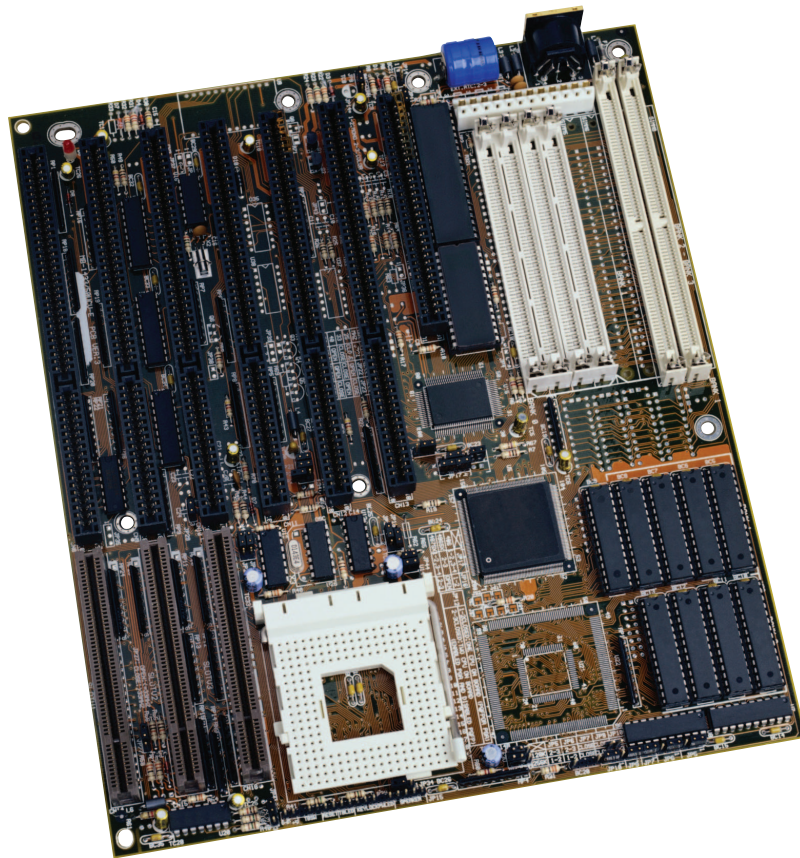


A guide to Technician Awards in Electrical and Electronic Engineering 8030 (2000)

City & 
Guilds

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The 8030 (2000) Technician Award in Electrical & Electronic Engineering replaced the 8030 Electrical and Electronic Engineering Technician award (1995 onwards). The 8030 (2000) has been developed to reflect the current training and employment needs and specifically to cater for the International market.

The 8030 (2000) is offered at three levels, Certificate, Diploma and Advanced Diploma. The Diploma provides scope for entry into Universities and Institutes of Higher Education and the Advanced Diploma provides direct access into the second year of a first degree course in Engineering.

Key Features of the 8030 (2000)

Two types of award

At each level centres may choose whether to take a 'Theory award' or an 'Applied award'. The Theory award covers the underpinning knowledge required by electrical and electronic engineers and is assessed by external written examinations set and marked by City & Guilds. It is very similar to the old 8030 award. However, candidates who wish to achieve the Applied award must undertake and be successful in the practical assignments which are included within the syllabus. The assignments cover the following areas:

- Scientific Experiments
- Engineering Drawing
- Computer Technology
- Health and Safety
- Electrical and Electronic Assignments

At the Advanced Diploma level candidates following the Applied award are required to undertake an Engineering Project. This is an extended practical assignment in which candidates have the opportunity of solving an appropriate and relevant engineering problem.

The practical units are marked locally and verified by a Visiting Verifier. (The Visiting Verifier is a subject expert either from Industry, the Public Sector or Higher Education and is appointed by City & Guilds to advise on and verify practical work undertaken by Centres).

Technician Awards in Electrical and Electronic Engineering – Certificate Level

8030-21 Technician Certificate in Applied Electrical and Electronic Engineering	
200	Engineering Fundamentals 1
201	Engineering Fundamentals 1 Practical Assignments
202	Electrical and Electronic Applications
203	Electrical and Electronic Applications Practical Assignments

8030-21 Technician Certificate in Electrical and Electronic Engineering Theory	
200	Engineering Fundamentals 1
201	Electrical and Electronic Applications

Technician Awards in Electrical Engineering – Diploma level

8030-22 Technician Diploma in Applied Electrical Engineering	
210	Engineering Fundamentals 2
211	Computer Aided Communication Practical Assignments
214	Electrical Power
215	Electrical Practical Assignments

8030-22 Technician Diploma in Electrical Engineering Theory	
210	Engineering Fundamentals 2
214	Electrical Power

Technician Awards in Electronic Engineering – Diploma level

8030-22 Technician Diploma in Applied Electronic Engineering	
210	Engineering Fundamentals 2
211	Computer Aided Communication Practical Assignments
212	Electronics
213	Electronics Practical Assignments

8030-22 Technician Diploma in Electronic Engineering Theory	
210	Engineering Fundamentals 2
212	Electronics

Technician Awards in Electrical Engineering – Advanced Diploma level

8030-23 Advanced Technician Diploma in Applied Electrical Engineering	
220	Engineering Project Practical Assignment
221	Advanced Electrical Technology
Plus one of the following units:	
223	Distribution and Utilisation of Electrical Power
224	Generation and Supply of Electrical Energy
226	Electrical Plant and Equipment

8030-23 Advanced Technician Diploma in Applied Electronic Engineering	
220	Engineering Project Practical Assignment
222	Advanced Electrical Technology
Plus one of the following units:	
222	Control Systems and Applications
225	Micro-Electronic Circuits and Systems

8030-23 Advanced Technician Diploma in Electrical Engineering Theory	
221	Advanced Electrical Technology
Plus one of the following units:	
223	Distribution and Utilisation of Electrical Power
224	Generation and Supply of Electrical Energy
226	Electrical Plant and Equipment

8030-23 Advanced Technician Diploma in Electronic Engineering Theory
221 Advanced Electrical Technology
Plus one of the following units:
222 Control Systems and Applications
225 Micro-Electronic Circuits and Systems

Candidates who wish to enter University are recommended to take a further optional unit 227 Advanced Mathematics.

General Information

Candidates who have achieved the 8030 Technician Certificate or Diploma in Electrical and Electronic Engineering may move to the next level in 8030 (2000)

Candidates who achieve an 8030 Technician Diploma and an 8030 (2000) Advanced Technician Diploma will be eligible for the Full Technological Diploma.

The chart below shows how the old units equate to the new units.

8030 Electrical & Electronic Engineering	8030 (2000) Technician Awards in Electrical & Electronic Engineering
Certificate	Certificate
101 Engineering Communications & Science	200 Engineering Fundamentals 1
102 Electrical Engineering Principles	202 Electrical & Electronic Applications
Diploma	Diploma
111 Engineering Science and Circuits	210 Engineering Fundamentals 2
112 Electronics	212 Electronics
or	or
113 Power	214 Electrical Power
Advanced Diploma	Advanced Diploma
121 Advanced Electrical Technology	221 Advanced Electrical Principals
and one of the following:	and one of the following:
122 Electrical Plant	226 Electrical Plant and Equipment
123 Generation & Supply of Electrical Power	224 Generation and supply of Electrical Energy
124 Utilisation of Electrical Energy	223 Distribution and Utilisation of Electrical power
125 Micro-electronic Systems	223 Micro-electronic Circuits & Systems
126 Communication Systems	
127 Control Systems and Power Control	222 Control Systems and Applications
128 Supplementary Mathematics	227 Advanced Mathematics
129 Portfolio of Evidence	220 Engineering Project

Further information

For more information about this qualification, please contact:

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If asked for a scheme number, please quote 8030.

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