The New Apprenticeships

Facilitating learning, mentoring, coaching and assessing

POST-16 LEARNING



Most of our titles are also available in a range of electronic formats. To order please go to our website www.criticalpublishing.com or contact our distributor, NBN International, 10 Thornbury Road, Plymouth PL6 7PP, telephone 01752 202301 or email orders@nbninternational.com.



The New Apprenticeships

Facilitating learning, mentoring, coaching and assessing

ANDREW ARMITAGE
AND ALISON COGGER

POST-16 LEARNING First published in 2019 by Critical Publishing Ltd

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without prior permission in writing from the publisher.

The authors have made every effort to ensure the accuracy of information contained in this publication, but assume no responsibility for any errors, inaccuracies, inconsistencies and omissions. Likewise, every effort has been made to contact copyright holders. If any copyright material has been reproduced unwittingly and without permission the publisher will gladly receive information enabling them to rectify any error or omission in subsequent editions.

Copyright © 2019 Andrew Armitage and Alison Cogger

British Library Cataloguing in Publication Data A CIP record for this book is available from the British Library

ISBN: 978-1-912508-28-0

This book is also available in the following e-book formats:

MOBI ISBN: 978-1-912508-29-7 EPUB ISBN: 978-1-912508-30-3

Adobe e-book ISBN: 978-1-912508-31-0

The rights of Andrew Armitage and Alison Cogger to be identified as the authors of this work have been asserted by them in accordance with the Copyright, Design and Patents Act 1988.

Cover design by Out of House Limited
Text design by Greensplash Limited
Project Management by Newgen Publishing UK
Printed in the UK by 4edge, Essex

Critical Publishing 3 Connaught Road St Albans AL3 5RX

www.criticalpublishing.com

Paper from responsible sources

Contents

Meet the	authors	vi
Acknowle	dgements	vii
Int	roduction	1
1.	The New Apprenticeships	3
2.	Learning and development	31
3.	Mentoring processes	59
4.	Mentoring and coaching skills	96
5.	Assessment of achievement	130
Answers		155
Reference	es	158
Index		163

Meet the authors



Andrew Armitage

Andrew Armitage was head of the department of post-compulsory education at Canterbury Christ Church University and taught in secondary, further, adult and community education and HE for more than 40 years. He was an associate inspector and then Ofsted inspector from 2011 to 2015. He now works as a consultant with universities advising them on teacher training and as a staff developer in the education and training sector. As chair of the Universities' Council for the Education of Teachers (UCET) Post-16 Committee

from 2014 to 2017, he was closely involved with the development of the Education and Training Apprenticeships. He is co-author of a number of key texts for FE initial teacher education programmes.



Alison Cogger

Alison Cogger is currently faculty director of school, college and learning setting partnerships and is the faculty lead on apprenticeships at Canterbury Christ Church University. She completed a BTEC National Diploma in the 1990s and, following her first degree, took a PGCE in post-compulsory education and then taught and acted as a mentor for six years in FE. She worked for the Aim Higher programme, leading on FHE progression, the subject of her Master's dissertation, before moving into adult and community educa-

tion. She then entered HE as programme director of the PGCE 14–19, which was and remains a nationally unique teacher education programme leading to either QTS or QTLS. She is completing her doctoral thesis on vocational teacher training.

Acknowledgements

The authors and publisher are grateful for the following public sector information which is reproduced free of charge under the Open Government Licence v3.0.

Chapter 1

Table 1a, Ofqual (2015b) What Different Qualification Levels Mean: List of Qualification Levels. Available at: www.gov.uk/what-different-qualification-levels-mean/list-of-qualification-levels (accessed 28 January 2019).

DfE (2018) *Introduction of T Levels*. Policy Paper. Available at: www.gov.uk/government/publications/introduction-of-t-levels/introduction-of-t-levels (accessed 28 January 2019).

Institute for Apprenticeships (2017a) 'How To' Guide for Trailblazers. Available at: https://dera.ioe.ac.uk/28922 (accessed 28 January 2019).

Table 1b, Institute for Apprenticeships (2015) *Junior Journalist*. Available at: www. instituteforapprenticeships.org/apprenticeship-standards/junior-journalist (accessed 28 January 2019).

Table 1c, Which? University (2018) The Complete Guide to Higher and Degree Apprenticeships. London: HMSO Available at: https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/706821/Higher_and_degree_apprenticeships_NAS_Which_Uni_Web__25_.pdf (accessed 28 January 2019).

Chapter 3

Table 3a and Table 3b, descriptors in tables, Institute for Apprenticeships (2017c) Search the Apprenticeship Standards. Available at: www.instituteforapprenticeships. org/apprenticeship-standards (accessed 28 January 2019).

Table 3d, Health and Safety Executive, *The Health and Safety Toolbox*. At the time of writing, this was available on the HSE website at: www.hse.gov.uk/pubns/books/hsg268. htm and could be downloaded free.

Chapter 4

Institute for Apprenticeships (2018) Assessment Method Guide: Workplace Observation. Available at: www.instituteforapprenticeships.org/developing-new-apprenticeships/assessment-methods/assessment-method-guide-workplace-observation (accessed 28 January 2019).

Chapter 5

Paraphrased extract from Institute for Apprenticeships (2017a) 'How To' Guide for Trailblazers Available at: https://dera.ioe.ac.uk/28922 (accessed 28 January 2019).

Table 5b, DfE, ETF and AELP (2017) The Future Apprenticeships course 'End-Point Assessment – Prepare to Deliver', *Presentation 6: Professional dialogues as an assessment instrument.*

Paraphrase and project exemplars, Institute for Apprenticeships (2017b) Assessment Method Guide. Available at: www.instituteforapprenticeships.org/developing-new-apprenticeships/assessment-methods (accessed 28 January 2019).

Quotation, Strategic Development Network (2016a) *The Presentation/Showcase: Under the Bonnet of End-Point Assessment*. Available at: www.strategicdevelopmentnetwork. co.uk/the-showcase-presentation-under-the-bonnet-of-end-point-assessment (accessed 28 January 2019).

Quotation, Institute for Apprenticeships (2017d) *External Quality Assurance*. Available at: www.instituteforapprenticeships.org/quality/external-quality-assurance (accessed 28 January 2019).

OTHER ACKNOWLEDGEMENTS

Chapter 2

Geoff Rebbeck for Section 2.8 Current and emerging technologies.

Chapter 4

The generic competence framework distils findings from: MOSAIC competencies for professional and administrative occupations (US Office of Personnel Management); Spencer and Spencer, Competence at Work; and top performance and leadership competence studies published in Richard H Rosier (ed), *The Competency Model Handbook*, vols 1 and 2 (Boston: Linkage, 1994 and 1995), especially those from Cigna, Sprint, American Express, Sandoz Pharmaceuticals, Wisconsin Power and Light, and Blue Cross and Blue Shield of Maryland. Much of the material comes from *Working with Emotional Intelligence* by Daniel Goleman (London: Bantam, 1998).

The Education and Training Foundation for permission to reproduce the Professional Standards in Table 4e.

Gatsby Foundation for permission to access Subject Pedagogy for Science, Engineering and Technology Teachers at: www.gatsby.org.uk/education/programmes/teachereducation-in-FE (accessed 28 January 2019).

Introduction

The Richard Review of Apprenticeships (2012) emphasised the importance of mentoring in the New Apprenticeships:

The Government should consider specifying that the employer and apprentice come together at the beginning of the apprenticeship and sign an agreement, setting out what is expected of them. This could include an explicit commitment to work towards the relevant apprenticeship qualification. It should also spell out the training that will be delivered, by whom and where, and the time off work allowed for this. It should be clear who is available to mentor and support the apprentice – in the training organisation and the firm. This is simply good practice, and happens in some cases today. But, going forward, it needs to be a routine part of the approach.

(Richard, 2012, p 94)

So, although most likely to be a fellow employee of the apprentice, it is possible that you may, as a mentor, be a member of the training provider organisation or its associates. Indeed, any one apprentice may have more than one mentor in the different organisations supporting their apprenticeship. Furthermore, because of this complexity and the varied patterns of off-the-job and on-the-job training, it is possible that you will be acting in other roles with the apprentice – such as trainer for your employer – alongside being a mentor. Despite the importance of the role of the mentor in the New Apprenticeships, training and support for the role has been limited and the aim of this book is to address this.

To further this training and support role, each chapter has a range of learning activities to be carried out yourself, with your apprentice or with other work or training colleagues. There are training and work-based scenarios, prioritisation, ranking, matching or evaluation activities. There are activities that ask you or your apprentice to reflect on your training or experience. There are problem-solving, observation and discussion activities, self-assessment and gapped assessment activities. At the end of each chapter is an action plan which asks you to specify, in relation to key points in the chapter, what your proposed developmental actions will be, who is responsible for these, what the intended target and outcomes are, and the timings for these.

Chapter 1 considers developments and trends in vocational education and training and sets the New Apprenticeships in their historical context. There is a consideration of apprenticeships in modern European countries which, by and large, currently have more effective vocational education and training than the UK. There is an overview of current vocational standards, qualifications and qualification frameworks as well as future

2 INTRODUCTION

developments and their likely impact, particularly the introduction of T levels. There is a consideration of key components of the New Apprenticeships such as the standards and the assessment plan, which sets out the elements of end-point assessment. Finally, there is an account of how degree or higher-level apprenticeships will operate.

The key focus for the mentor/coach is the learning of their apprentice and so Chapter 2 begins with an analysis of the key features of these learners and their learning, particularly of the barriers to learning they may have to overcome. There is an overview of the factors that might affect this learning, such as motivation, ability, age and development. The two dimensions of communication and interaction which should concern the mentor/coach of an apprentice are then described: the first relates to communication between the mentor/coach and their apprentice; the second is connected with the apprentice's own communication as part of their occupational role. Although learning theorists offer their own views on how the most effective learning takes place, there is here a consideration of each of their theories, which it is hoped will give apprentices and their mentors, coaches and trainers valuable insights into apprentice learning. Key learning approaches are then set out to illustrate how apprentices may use one or more of a number of preferred approaches to learning in the course of their learning career. After an account of deep and surface learning, there is a consideration of how the nature of organisations might affect learning as well as a view of the importance of current and emerging technologies.

Chapter 3 begins with a focus on your own approach to mentoring before going on to consider your apprentice's likely key learning activities – learning from experience and reflective practice. There is then a characterisation of mentoring as a cyclical process with the major aspects of that process examined, such as target-setting, the recording of learner progress, the managing and maintenance of the mentor–mentee relationship, the qualities of the mentor–mentee relationship and roles, responsibilities and boundaries. After a consideration of the distinction between the mentor and coach there is a focus on the role of safety, health and the environment. There is a discussion of your organisation and your partners in training and the maintenance of your occupational currency and continuous professional development.

Chapter 4 begins by revisiting mentor models and looks at models of coaching, particularly the GROW model. There is a consideration of emotional intelligence with an emphasis on its importance to effective mentoring and coaching and the necessity of building rapport, trust and respect. There is then a focus on the important skills of questioning and listening as well as a consideration of body language or non-verbal communication. There is a consideration of observation skills as well as the teaching, tutoring or instruction activities a mentor/coach may be required to carry out.

Although the end-point assessment of your apprentice will be carried out by an external assessor, your role in preparing your apprentice for this, through formative assessment, will be crucial. Following a consideration of the key features and principles of assessment, Chapter 5 focuses on the key methods currently being used for end-point assessment: portfolio/logbook, professional dialogue, written, verbal or online knowledge test, observed practical assessment, interview or panel discussion, project, presentation or showcase. Finally, there is an overview of the major elements of the quality assurance of assessment and your likely role in relation to it.

Index

ability to learn 37-8	augmented reality 53-4	
action plans 1	availability of mentors 76	
active listening 114-16		
active/passive continuum 96	Bandura, A 47	
activists 49	barriers to learning 33-5	
adolescent development 39	behaviourism 46	
adult ego state 41-4	Berne, Eric 41-3	
adults/children, learning and 39-41	Biggs, J 50	
age, learning and 38-9	biographical profiles of apprentices 34-5	
Allison, David 26	Bloom's Taxonomy 109	
andragogy 39-41	body language 116-19	
apprentice training structures, mentoring and 90-1	body posture 117	
Aristotle 3	bureaucracy 88	
Armitage, A 6-7, 38-9, 47, 126		
assessment	Canterbury Christ Church University	
authenticity of 133	Apprenticeship Framework 26-7	
complexity of mentor's role 151	child ego state 41-4	
criterion referencing 131–2	children	
e-portfolios 136	intellectual development of 46-7	
emotional impact of 131, 134	learning and 39-41	
end point assessment 22-3, 26	Clutterbuck, D 60	
essays 142-3	coaching	
features of 130-1	body language 116–19	
formal/informal 130	goal focussed 97-9	
formative/summative 130	GROW model 97-9, 111-12	
grade referencing 131, 132	listening skills 114–16	
higher and degree level apprenticeships 26	mentoring and 77-82	
interviews 146-7	models of 97-9	
knowledge tests 140-2	questioning 107–14	
methods 135-51	see also mentoring	
moderation 153	Coffield, F 48	
norm referencing 131	cognitive/emotional continuum 96	
observations 119-21, 143-6	communication	
plans 22-3	with apprentices 41-4	
portfolios 136-7	body language 116–19	
practicability of 133	body posture 117	
presentations 147, 149-51	eye contact 118-19	
principles of 131-5	facial expressions 118	
professional dialogue 138–40	gestures 117–18	
projects 147-9	haptics 119	
quality assurance 151-3	listening skills 114–16	
referencing 131–2	mentor's, with key parties 91-3	
reliability 133, 135	non-verbal 116-19	
selection of methods 135-6	occupational roles and 121D20, 44	
subjective/objective 130	proxemics 117	
validity 132-3, 134-5	questioning 107–14	
verification 153	touch 119	

INDEX

competency-based assessment	health and safety 78-82, 84
disenchantment with 6-7	hierarchy of learning 4
see also National Occupational Standards (NOS);	hierarchy of needs 35-6, 48
National Vocational Qualifications (NVQs)	higher and degree level apprenticeships
content representation 127	approval of programmes 26-7
continuous professional development	criticism of 26
of mentor 93-4	end point assessment 26
CoRe 127	examples 25
Cray, S 111, 112	mandatory qualifications 26
criterion referencing 131-2	mentoring 27-8
crossed transactions 42–3, 44	process for undertaking 26
culture, organisational 87-90	quality assurance 26
	requirements for organisations providing 23-4
decision-making, pedagogy as 126-8	setting up after approval 28–12
deep and surface learning 50–1	standards 24
degree level apprenticeships see higher	work/study combination 24
and degree level apprenticeships	Homer 59
diplomas, vocational 8	Houghton, W 50
directive/non-directive continuum 96	humanist theories 47-8
discovery learning 47	
Duckworth, V 32	Independent Panel on Technical Education 15–16
16 15 - 54 - 5 400	Ingle, S 32
e-portfolios 54–5, 136	instruction, giving 123-8
ego states 41-4	intelligence(s) 37-8, 125
emotional barriers to learning 33–4	interaction with apprentices 41–4
emotional/cognitive continuum 96	international comparisons 10
emotional intelligence 38, 99–105	internet, access to 33
end point assessment 22–3	interviews for assessment 146-7
higher and degree level apprenticeships 26 see also assessment	intrinsic motivation 36-7
Entwistle, N 50	Klasen, N 60
episteme 4	knowing-in-action 63
essays 142-3	knowledge, tacit 63
experiential learning 49, 62-3	knowledge pedagogy 126-8
extrinsic motivation 36-7	knowledge tests 140-2
eye contact 118-19	Knowles, Malcolm 39-41
	Kolb, D A 49, 62-3
facial expressions 118	Kuczera, M 10
Field, S 10	
Fifth Discipline, The (Senge) 51–2	Landsberger, H A. 121
flip and blend 55	learning
	ability to learn 37-8
Gardner, Howard 37-8, 125	activities 1
General National Vocational Qualifications (GNVQs) 7	age and 38-9
Gestalt theory 46	andragogy and pedagogy 39-41
gestures 117-18	barriers to 33-5
goal focussed model of coaching 97-9	behaviourism 46
Goleman, Daniel 38, 99-105	biographical profiles of apprentices 34-5
grade referencing 131, 132	deep and surface 50-1
GROW model of coaching 97-9, 111-12	discovery learning 47
	e-portfolios 54-5
Handy, C 87	experiential learning 49, 62-3
haptics 119	factors affecting 35-41
Hawthorne Effect 121	features of vocational learners 31-2

flip and blend 55	reflecting-in-action 63
hierarchy of 4	relationship between mentor/mentee 74-7
humanist theories 47-8	respect-building 105–7
motivation 35-41	responsibilities 76
objects 56	roles 60-2, 76
on-line learning objects 56	target-setting 65-6
organisations 51–3	teaching/tutoring 123-8
personal learning spaces 54-6	toxic mentors 77
social learning theories 47	trust-building 105–7
social media 55	work environment 78-82
styles 48-9, 125-6	metaphors, mentoring 61
technologies 53-7	Mirza-Davies, James 7-8
theories 45-8	models 47
virtual classes 56	moderation of assessments 153
vocational education and training, features of 32	Modern Apprentices, development of scheme 7–8
ways of knowing 3–4	Moodie, Gavin 4
Leitch Review of Skills 8	motivation for learning 35–41
listening skills 114–16	multiple choice tests 141-2
log of practice 137	
	National Occupational Standards (NOS)
mapping portfolios 54	requirements for 18-19
Marton, F 50	structure of units 6
Maslow, A H 35-6, 48	National Vocational Qualifications (NVQs)
matching tests 135-6, 142	disenchantment with 6-7
mental models 52	General National Vocational
mentoring	Qualifications (GNVQs) 7
in apprentice training structures 90-1	NOS as basis for 6
availability of mentors 76	start of 6
body language 116-19	Nicomachean Ethics (Aristotle) 3
boundaries 76	non-verbal communication 116–19
coaching and 77-82	norm referencing 131
communication with apprentices 41-4	nous 4
communication with key parties 91–3	1:
complexity of role 1, 151	objects, learning 56
continuous professional development	observations
of mentor 93-4	apprentice's observations of others 137
contracts 76	as assessment 119–21, 143–6
cycle 64–6 emotional intelligence 99–105	authenticity 145-6
experiential learning 62-3	coaching and 78–82 effect on observee 121
health and safety 78–82, 84	electronic 146
higher and degree level apprenticeships 27–8	
knowing-in-action 63	Hawthorne Effect 121 measurement 144-5
listening skills 114–16	participative/detached 144
metaphors 61	participative/ detactied 144 portfolio records 136
models of 96-7	pre- and post-conversations 78-82
observations 78–82, 119–23	skills in 121–3
occupational currency of mentor 93–4	occupational currency of mentor 93–4
organisational culture 87-90	occupational identity 128
origins 59	occupational roles, communication
pre-/post-observation 78-82	relating to IDXI-tgt-121D2044
progress reports 66–74	Odyssey, The (Homer) 59
questioning 107–14	on-line learning objects 56
rapport-building 105-7	operant conditioning 46

INDEX

organisational culture 87-90	Ramsden, P 50
organisations, learning 51–3	rapport-building 105–7
	recontextualisation 128
parent ego state 41-4	records of achievement in portfolios 136
passive/active continuum 96	reflecting-in-action 63
Pavlov's dogs 46	reflective portfolios 54-5
Pedagogical Content Knowledge (PCK) 127	reflectors 49
pedagogy 39-41, 126-8	Regulated Qualifications Framework
Pemberton, Carole 78, 111, 112, 115-16	(RQF) 11, 12-14
person cultures 89-90	relationship between mentor/mentee 74-7
personal barriers to learning 33	reliability of assessment 133, 135
personal learning spaces 54-6	respect-building 105–7
personal mastery 52	Review of Vocational Education (Wolf) 8
personal profiles in portfolios 136	Richards Review 1, 9, 22, 90-1
phronesis 4	Rogers, Carl 47-8
Piaget, Jean 46-7	role culture 88
Polyani, M 63	
portfolios	Sainsbury Report 15-16
apprentice's observations of others 137	Saljo, R 50
for assessment 136-7	Schön, D A 63
assignments compendium 137	Senge, Peter 51–2
blog/diary 137	shared vision 52
e-portfolios 54-5, 136	short answer tests 140-1
features of 136-7	Shulman, Lee 127
log of practice 137	simulation technologies 54
meeting records 137	Skinner, B F 46
observation records 136	SMART targets 65-6
personal profiles 136	social learning theories 47
records of achievement 136	social media 55
visual evidence 137	socio-economic barriers to learning 33
posture, body 117	sophia 4
power cultures 87-8	standardisation of assessments 153
pragmatists 49	standards
presentations for assessment 147, 149-51	disenchantment with competency-
professional dialogue 138-40	based assessment 6-7
progress reports 66-74	higher and degree level apprenticeships 24
projects for assessment 147-9	National Occupational Standards (NOS) 6
proxemics 117	requirements for 18-19
	teachers and trainers 123-5
qualifications	Trailblazer groups 18-19
Regulated Qualifications Framework	Stevenson, J 4
(RQF) 11, 12-14	subject pedagogy 126-8
T levels 16-18	surface and deep learning 50–1
see also National Vocational Qualifications (NVQs)	systems thinking 51
quality assurance	
assessment 151-3	T levels 16-18
higher and degree level apprenticeships 26	tacit knowledge 63
questioning	target-setting 65-6
coaching and 78	task culture 89
framing 107-9	teaching 123-8
generating 108	team learning 52
generating questions 109	techné 3
interviews for assessment 146-7	Technical and Vocational Education Initiative (TVEI) 6
mentoring and 107-14	technologies, learning 53-7
specific purposes for 111-12	tests see assessment

theorists 49
Tomlinson Report 8
touch 119
Trailblazer groups 18–19
training structure for apprentices, mentoring and 90–1
transactional analysis 41–4
trust-building 105–7
tutoring 123–8

ulterior transactions 43

validity of assessment 132–3, 134–5
verification of assessments 153
virtual classes 56
virtual reality 54
vocational education and training
andragogy and pedagogy 39–41
barriers to learning 33–5
biographical profiles of apprentices 34–5
choices available 9
competency-based assessment,
disenchantment with 6–7
diplomas, vocational 8
features of 32

General National Vocational Qualifications (GNVQs) 7 international comparisons 10 levels 4 Modern Apprentices, development of scheme 7-8 motivation for learning 35-41 National Occupational Standards (NOS) 6 National Vocational Qualifications (NVQs) 6 participation age 9 recommendations for improving 8–9 T levels 16-18 Technical and Vocational Education Initiative (TVEI) 6 ways of knowing 3-4 vocational learners, features of 31-2 Vygotsky, Lev 47 ways of knowing 3-4

Whitmore, John 97–9, 105–6, 111–12, 116 workplace barriers to learning in 33 mentoring in 78–82

Zone of Proximal Development 47

