

## Training and Certification in the QCF

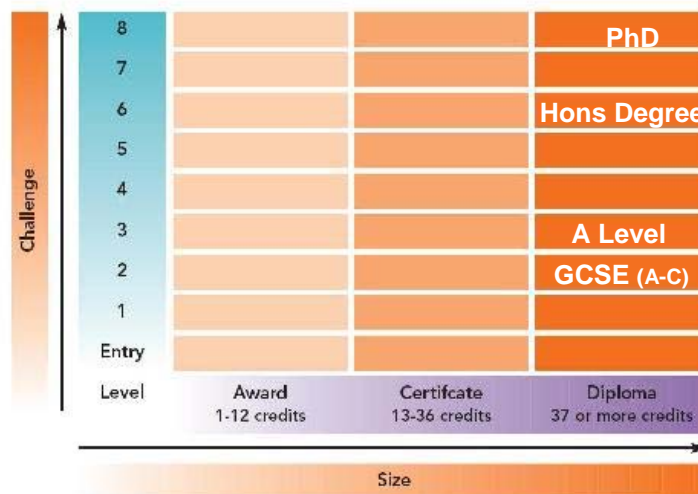


Training and certification in Forestry and Arboriculture at level 2 and 3 has focussed principally on basic safety skills in recent years.

Training has focussed more on candidates passing the test rather than on the wider training needs of working in Forestry and Arboriculture.

QCF enables us to review and rebuild the training and certification progression routes to provide more up to date, flexible and appropriate education and skills training and certification

## Qualifications & Credit Framework (QCF)



## Training and Certification in the QCF



City & Guilds NPTC together with Lantra SSC and other industry partners are consulting on the following to provide for the future needs of Forestry and Arboriculture Education and skills training and to provide for the future needs of Forestry and Arboriculture Education and skills training and certification at level 2 and 3

- Revised Certificates of Competences (CoCs)
- Revised Work-based learning qualifications (Certificate and Diploma sizes) with CoCs built within them
- Revised College Based Treework (Forestry & Arboriculture) programmes of Study (Certificate and Diploma sizes)

## Training and Certification in the QCF



Work-based Learning qualifications (previously NVQs) provide a mix of units that can be selected appropriate to the learners work situation. CoCs are built within these so that there is no need for duplication or confusion – these units are the “tickets” needed to prove competence. Grouped together in specified “rules of combination” these certificates and diplomas contribute towards the new apprenticeships in Forestry and Arboriculture.

College based programmes are primarily aimed at learners within a college setting looking to progress into the sector or further education and training. Education and introduction, not competence

## Work-based Learning Consultation



Lantra is currently consulting on the QCF units for the revised Work-based Learning qualifications (previously NVQs) in England, Wales and Northern Ireland. SVQs are remaining in Scotland.

Industry representatives are encouraged to feedback to Lantra on these new units.

Please visit: <http://www.lantra.co.uk/trees-and-timber-qcf-review>

Summary of the units follows.



## Summary Document of the Trees and Timber Units

## Trees and Timber - units developed

			number	
Control local pollution incidents in the environmental and land based industries	2	1	TW1	Consultation version
Create an open drainage system			TW2.1	Draft 2
Maintain an open drainage system			TW2.2	Draft 2
Carry out site surveys and communicate your findings			TW3	Draft 2
Manually prepare sites for tree planting	2	1	TW4 + TW5	Consultation version
Mechanically prepare sites for tree planting	2	3	TW4+TW5	Consultation version
Manually plant trees	2	1	TW6	Consultation version
Carry out non chemical post-planting protection	2	2	TW7	Consultation version
Carry out plant protection by chemical means	3	2	TW8	Consultation version
Select, mark and assess volume of standing trees	3	5	TW9.1	Consultation version
Measure and assess felled timber volume and quantity	3	3	TW9.2	Consultation version
Fell and process small trees	2	3	TW10.1,2,3	NPTC developed CS31
Fell and process trees over 380mm diameter	2	3	TW11 & TW13	NPTC developed CS32
Crosscut and stack small diameter timber using a chainsaw	2	1	TW12 &14	NPTC developed CS30.2
Crosscut large diameter timber using a chainsaw			TW13	Now in TW11
Stack crosscut timber manually			TW14	Now in TW12
Fell trees mechanically	3	16	TW15.1,2,3	Consultation version
Process trees mechanically	3	24	TW16.1,2,3	Consultation version
Prepare, drive and manoeuvre forwarder	3	15	TW17.1,2	Consultation version
Operate grapple loader	3	22	TW17.3	Consultation version
Prepare to operate, drive and manoeuvre a skidder	3	6	TW18.1,2	Consultation version
Attach and detach timber on a skidder	3	3	TW18.3	Consultation version
Extract wood products by cable crane			TW19	Draft 3
Extract wood products using a pair of horses			TW20	Draft 2
Extract wood products using a horse			TW22	Draft 2
Handle, transport and prepare horse for timber work			TW21	Draft 2
Extract wood products using small motorised equipment	3	7	TW23	Consultation version
Process timber on site	2	5	TW24	Consultation version
Prepare and maintain safe working site for arboricultural operations from the ground	2	4	TW25	Consultation version
Arboricultural ground worker	2	2	TW26	NPTC developed CS45
Process arisings / residues from tree work and timber operations	2	1	TW27	Consultation version
Specialist tree felling	2	2	TW28	NPTC developed CS33
Treat and dispose of stumps and roots	2	1	TW29	Consultation version
Dispose of stumps and roots	2	1	TW29	Consultation version
Carry out stump protection using stump protection fluids by simple hand held equipment	2	1	TW29 part	NPTC developed CS42
Use a chainsaw from a rope and harness	2	2	TW30	NPTC developed CS39
Safe use of a chainsaw from a MEWP	2	3	TW31, TW33, & TW35	NPTC developed CS47

Carry out pruning operations	2	2	TW32	NPTC developed CS40
Carry out aerial crown reduction and thinning from a MEWP			TW33	NPTC developed
Undertake sectional felling techniques	2	2	TW34	NPTC developed CS41
Dismantle trees from a MEWP			TW35	NPTC developed
Climb trees and perform aerial rescue	2	5	TW36 &37	NPTC developed CS38
Carry out pole rescue			TW37	NPTC developed in TW36
Re-pollard trees at a maximum height of 5meters	2	3	TW36	NPTC developed
Install structural supports for trees			TW38	Draft 2
Carry out arboricultural operations in proximity to underground utilities	2	5	TW39.1	Draft 3
Carry out arboricultural operations in proximity to overhead utilities	2	14	TW39.2	Draft 3
Carry out arboricultural operations in proximity to overhead utilities	3	5	TW39.2	Draft 3
Assist with forest and moorland fire fighting			TW40.1,2	Draft 3
Survey and inspect trees	3	3	TW41	Consultation version
Carry out site amelioration for tree health	2	1	TW42	Consultation version
Prepare for and carry out emergency arboricultural operations	2	2	TW43.1,2	Consultation version
Contribute to the management of forest and moorland firefighting	3		TW44	Draft 3
Use of mechanically powered winches in timber work	3	8	TW45	Consultation version
Chainsaw maintenance	2	1	TW46, 47 &48	NPTC developed CS30.1
Sever multiple windblown trees	2	1	TW49	NPTC developed CS35
Sever individually uprooted trees	2	1	TW50.1,2	NPTC developed CS34
Operate machine in extreme conditions	3	6	TW51.1	Consultation version
Advance machine settings for a harvester/processor	3	2	TW51.2	Consultation version
Advance machine settings forwarder			TW51.3	Draft 3
Take delivery of and store plants and materials			TW52	Draft 2
Safe use of powered pole pruners	2	2	TW53	NPTC developed CS48
Process timber using large loader – fed machinery	3	7	TW54	Consultation version
Fell utility poles	3	1	non	NPTC developed CS43
Techniques to work with damaged trees	2	3	non	NPTC developed CS50
Sharpen and maintain edged hand tools for green wood trades	2	2	GWT2	Consultation version
Woodland tree identification and their uses within green wood craft	2	3	GWT3	Consultation version
Coppicing -planning, cutting processing and extracting	2	4	GWT4	Consultation version
Process coppice materials for simple coppice products	2	4	GWT5	Consultation version
Process wood for green wood products	2	4	GWT6.12, 3,4	Final Version?
Build and maintain tools and devices used to process coppice and green wood products	2	3	GWT7	Consultation version
Lay a hedge	3	4	GWT8	Consultation version
Wood fuel production	2	3	GWT9.1	Consultation version
Prepare and produce charcoal	2	3	GWT9.2,3	Consultation version
Construct a green wood product to client specification	3	8	GWT10	Consultation version

Design green wood trades products or part of products including larger diameter timber			GWT11	Final Version
Establish a new coppice	2	2	GWT12.1, 2	Consultation version
Tree protection and maintenance for newly planted coppice	2	3	GWT12.3 GWT13.1	Consultation version
Identify and control the presence of woodland pests	3	5	GWT13.3 GWT13.4	Consultation version
Develop a woodland management plan	3	6	GWT14.1	Consultation version
Manage coppice rotations	3	3	GWT 14.2	Consultation version
Assess wood yield for coppicing	3	3	GWT14.3	Consultation version
Develop, negotiate and agree proposals to offer services and products			CU96	Draft 2
Forecast production of forest and woodland products			CU101	Draft 2
Assess and evaluate available markets for wood, wood products and evaluate timber			CU102.1	Draft 2
Identify, quantify and evaluate forest and woodland products other than wood			CU102.2	Draft 2
Determine the method and point of sale of forest and woodland products and services			CU102.3	Draft 2

## College-based Qualification Consultation



Lantra is currently consulting on behalf of City & Guilds NPTC and Edexcel on the revised Centre-based qualifications.

Summary of the qualifications follows.

## College-based Qualification Consultation



Level 2 Certificate in Treework (15 credits)

Level 2 Extended Certificate in Treework (30 credits)

Level 2 Diploma in Treework (60 credits)

# 1.2 Structure

## Level 2 Certificate

Learners are required to achieve 15 credits from the mandatory units below.

Unit no.	Title	Credit Value	GLH	Mandatory (M) / Optional (O)
203	Disposal of Wood Wastes from Work on Trees	5	30	M
204	Establishment of Trees and Shrubs	5	30	M
205	Identification and Selection of Trees and Shrubs	5	30	M

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## Level 2 Extended Certificate

Learners are required to achieve 30 Credits from any combination of units in the table below.

Unit no.	Title	Credit Value	GLH	Mandatory (M) / Optional (O)
203	Disposal of Wood Wastes from Work on Trees	5	30	O
204	Establishment of Trees and Shrubs	5	30	O
205	Identification and Selection of Trees and Shrubs	5	30	O
206	Arboricultural Skills (aerial)	10	60	O
207	Ground-based Arboricultural Operations	10	60	O
208	Harvesting and Extraction of Timber from Woodland	10	60	O
209	Silviculture and Habitat Management	10	60	O
210	Tree and Woodland Management Activities	10	60	O
211	Tree Felling Operations	10	60	O
212	Tree Pruning Operations	10	60	O
213	Introduction to Land-based Machinery Operations	10	60	O

## Level 2 Diploma

Learners are required to achieve 60 Credits, of which 20 must be from the Mandatory units indicated below. The remaining credits can be made up of any combination of units from the table.

Unit no.	Title	Credit Value	GLH	Mandatory (M) / Optional (O)
201	Work Experience	10	60	M
202	Environmental and Land-based Business	10	60	M
203	Disposal of Wood Wastes from Work on Trees	5	30	O
204	Establishment of Trees and Shrubs	5	30	O
205	Identification and Selection of Trees and Shrubs	5	30	O
206	Arboricultural Skills (aerial)	10	60	O
207	Ground-based Arboricultural Operations	10	60	O
208	Harvesting and Extraction of Timber from Woodland	10	60	O
209	Silviculture and Habitat Management	10	60	O
210	Tree and Woodland Management Activities	10	60	O
211	Tree Felling Operations	10	60	O
212	Tree Pruning Operations	10	60	O
213	Introduction to Land-based Machinery Operations	10	60	O
214	Estate Skills	10	60	O
215	Introduction to the Principles of Land-based Machinery	10	60	O
216	Presentation and Service for Retailing in the Land-based Sector	10	60	O
217	Plant and Soil Science	10	60	O
218	Introduction to Land-based Workshop Practice	10	60	O

## College-based Qualification Consultation



Level 3 Certificate in Treework (30 credits)

Level 3 Subsidiary Diploma in Treework (60 credits)

Level 3 Diploma in Treework (120 credits)

Level 3 Extended Diploma in Treework (180 credits)



## 1.2 Structure

### Level 3 Certificate

Learners are required to achieve 30 credits from any combination of units in the table below.

Unit no.	Title	Credit Value	GLH	Mandatory (M)/ Optional (O)
305	Identification, Planting and Care of Trees	10	60	O
306	Tree Establishment and Protection	10	60	O
308	Advanced Arboricultural Practices	10	60	O
309	Forest and Woodland Management	10	60	O
310	Forest and Woodland Skills	10	60	O
311	Measuring Trees and Woodlands	10	60	O
312	Pests and Diseases of Trees	10	60	O
313	Tree and Shrub Pruning and Maintenance	10	60	O
314	Tree Surveys and Inspections	10	60	O

## Level 3 Subsidiary Diploma

Learners are required to achieve 60 Credits, 10 of which must be in Work Related Experience in the Land-based Sector. The remaining 50 can be made up of any combination of units in the table below.

Unit no.	Title	Credit Value	GLH	Mandatory (M)/ Optional (O)
301	Work Related Experience in the Land-based Sector	10	60	M
303	Principles of Plant Science	5	30	O
304	Principles of Soil Science	5	30	O
305	Identification, Planting and Care of Trees	10	60	O
306	Tree Establishment and Protection	10	60	O
307	Land-based Machinery Operations	10	60	O
308	Advanced Arboricultural Practices	10	60	O
309	Forest and Woodland Management	10	60	O
310	Forest and Woodland Skills	10	60	O
311	Measuring Trees and Woodlands	10	60	O
312	Pests and Diseases of Trees	10	60	O
313	Tree and Shrub Pruning and Maintenance	10	60	O
314	Tree Surveys and Inspections	10	60	O
315	Legislation Relating to Trees in the UK	10	60	O
316	Principles of Forest Recreation	10	60	O
317	Principles of Silviculture	10	60	O
318	Tree Science	10	60	O

## Level 3 Diploma

Learners are required to achieve 120 Credits, of which 40 must be from the mandatory units indicated below (NB Learners must do either Identification, Planting and Care of Trees **or** Tree Establishment and Protection). The remaining credits can be made up of any combination of units from the table.

Unit no.	Title	Credit Value	GLH	Mandatory(M)/ Optional (O)
301	Work Related Experience in the Land-based Sector	10	60	M
302	Investigative Project in the Environmental and Land-based Sector	10	60	M
303	Principles of Plant Science	5	30	M
304	Principles of Soil Science	5	30	M
305	Identification, Planting and Care of Trees	10	60	M
306	Tree Establishment and Protection	10	60	M
307	Land-based Machinery Operations	10	60	O
308	Advanced Arboricultural Practices	10	60	O
309	Forest and Woodland Management	10	60	O
310	Forest and Woodland Skills	10	60	O
311	Measuring Trees and Woodlands	10	60	O
312	Pests and Diseases of Trees	10	60	O
313	Tree and Shrub Pruning and Maintenance	10	60	O
314	Tree Surveys and Inspections	10	60	O
315	Legislation Relating to Trees in the UK	10	60	O
316	Principles of Forest Recreation	10	60	O
317	Principles of Silviculture	10	60	O
318	Tree Science	10	60	O
319	Specialist Forestry or Arboricultural Machinery	10	60	O
320	Timber Conversion and Utilisation	10	60	O

321	Urban and Community Forestry	10	60	0
322	Computer Aided Design in Land-based Industries	10	60	0
323	Contract Management in Land-based Businesses	10	60	0
324	Retail Merchandising for the Land-based Sector	10	60	0
325	Management of Heritage Gardens and Arboreta	10	60	0
326	Woodland Habitat Management	10	60	0
327	Business Management in the Environmental and Land-based Sector	10	60	0
328	Estate Maintenance Skills	10	60	0

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## Level 3 Extended Diploma

Learners are required to achieve 180 Credits, of which 50 must be from the mandatory units indicated below (NB Learners must do either Identification, Planting and Care of Trees **or** Tree Establishment and Protection). The remaining credits can be made up of any combination of units from the table.

Unit no.	Title	Credit Value	GLH	Mandatory(M)/ Optional (O)
301	Work Related Experience in the Land-based Sector	10	60	M
302	Investigative Project in the Environmental and Land-based Sector	10	60	M
303	Principles of Plant Science	5	30	M
304	Principles of Soil Science	5	30	M
305	Identification, Planting and Care of Trees	10	60	M
306	Tree Establishment and Protection	10	60	M
307	Land-based Machinery Operations	10	60	M
308	Advanced Arboricultural Practices	10	60	O
309	Forest and Woodland Management	10	60	O
310	Forest and Woodland Skills	10	60	O
311	Measuring Trees and Woodlands	10	60	O
312	Pests and Diseases of Trees	10	60	O
313	Tree and Shrub Pruning and Maintenance	10	60	O
314	Tree Surveys and Inspections	10	60	O
315	Legislation Relating to Trees in the UK	10	60	O
316	Principles of Forest Recreation	10	60	O
317	Principles of Silviculture	10	60	O
318	Tree Science	10	60	O
319	Specialist Forestry or Arboricultural Machinery	10	60	O
320	Timber Conversion and Utilisation	10	60	O

321	Urban and Community Forestry	10	60	0
322	Computer Aided Design in Land-based Industries	10	60	0
323	Contract Management in Land-based Businesses	10	60	0
324	Retail Merchandising for the Land-based Sector	10	60	0
325	Management of Heritage Gardens and Arboreta	10	60	0
326	Woodland Habitat Management	10	60	0
327	Business Management in the Environmental and Land-based Sector	10	60	0
328	Estate Maintenance Skills	10	60	0

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