

Level 3 90-Credit Diploma

To achieve the **Level 3 90-Credit Diploma in Land-based Technology**, learners are required to achieve 25 credits in the Mandatory group. A further 65 credits are required from the Optional group units in the table below. A total of 90 credits are required to achieve this qualification.

Unit accreditation number	City & Guilds unit number	Unit title	Mandatory/ optional for full qualification	Credit value
H/600/3437	301	Land-based Engineering Operations – Service and Repair Engines and Components	Mandatory	10
M/601/4263	302	Understanding and Servicing Mechanical Power Transmission Systems	Optional	10
L/601/4271	303	Understanding Health, Safety and Welfare in the Land-based Engineering Workplace	Mandatory	10
H/600/3440	304	Service and Repair Hydraulic Systems and Components on Land-based Equipment	Mandatory	5
M/601/4280	305	Understanding Land-based Vehicle Chassis Systems	Optional	10
R/600/9394	306	Undertake and Review Work Related Experience in the Land-based Industries	Optional	10
J/601/4267	307	Understanding and Working with Land-based Vehicle Engine Technology	Optional	10
A/600/3444	308	Inspect and Test Land-based Machinery and Equipment	Optional	10
M/600/9631	309	Undertaking Land-based Workshop Practice	Optional	10
M/600/3439	310	Maintain Electronic Control and Monitoring Systems on Land-based Equipment	Optional	10

K/600/3438	311	Service and Repair Suspension Systems on Land-based Equipment	Optional	5
K/600/3441	312	Service and Repair Pneumatic Systems and Components for Land-based Equipment	Optional	5
M/600/3442	313	Service and Repair Powershift Hydrostatic and CVT Transmissions on Land-based Equipment	Optional	10
T/600/3443	314	Monitor the Handover and Installation of Land-based Equipment	Optional	5
L/601/4254	315	Operate and Service Land-based Vehicle Transmission Systems	Optional	10
H/600/9805	316	Undertaking Land-based Machinery Operations	Optional	10
Y/601/4256	317	Understand and Work with Land-based Repair Processes and Materials Technology	Optional	10
K/601/4259	318	Understanding and Servicing Land-based Harvesting Machinery (Cutting and Lifting)	Optional	10
D/601/4260	319	Understanding and Servicing Land-based Harvesting Machinery (Processing)	Optional	10
Y/601/4287	320	Working with Land-based Construction Plant Materials Handling Equipment	Optional	10
L/601/4285	321	Working with Land-based Construction Plant Ground Engaging and Consolidation Equipment	Optional	10
D/601/4288	322	Working with Land-based Diesel Fuel Injection Systems	Optional	10
J/601/4284	323	Undertaking Land-based Technology Engineering Drawing	Optional	10
K/601/4262	324	Understanding and Servicing Land-based Machines (Cultivation and Planting Equipment)	Optional	10

H/601/4289	325	Working with Land-based Machinery (Application Equipment)	Optional	10
Y/601/4290	326	Working with Land-based Tool Hire Machinery and Mechanisms	Optional	10
T/601/4264	327	Understanding and Working with Groundcare Equipment	Optional	10
T/601/4284	328	Undertaking 4WD Vehicle Maintenance, Operation and Recovery	Optional	10
F/601/4252	329	Familiarisation and Management of Land-based Vehicles	Optional	10
J/601/4270	330	Understanding Computer Application and Control in Land-based Technology	Optional	10
Y/601/4273	331	Understanding Land-based Machinery Management	Optional	10
M/600/9709	332	Business Management in the Land-based Sector	Optional	10
M/601/0021	333	Undertake an Investigative Project in the Land-based Sector	Optional	10
T/601/4250	334	Applications of Science in Land-based Engineering	Optional	5
A/600/9812	335	Undertake Retail Merchandising for the Land-based Sector	Optional	10
J/600/9635	336	Undertaking Specialised Land-based Workshop Practices	Optional	10
L/601/5310	337	Refrigerant Handling	Optional	2
F/601/5305	338	Service and Repair of Land-based Air Conditioning, Climate Control and Refrigeration Plant and Equipment	Optional	3

L/601/5307	339	Recognise and Reduce Risks in the Land-based Engineering Workplace	Optional	5
D/600/3436	340	Land-based Engineering Operations – Perform Thermal Joining Processes	Optional	5
F/600/9701	341	Participate in Business Planning and Improvement in the Land-based Sector	Optional	10
Y/600/3435	207	Provide Customer Care within Land-based Engineering Operations	Optional	5
A/600/3427	208	Land-based Engineering Operations – Perform Thermal Joining and Cutting Processes	Optional	10
Y/600/3404	220	Service and Repair Electrical Systems on Land-based Equipment	Optional	10
