

Transforming Tunnelling Safety

Tunnel safety doesn't happen by accident





SKATE Matrix

October 2023 Edition

Next revision due: October 2024

SKATE [Skills, Knowledge, Attitude, Training, Experience] Competence Matrix for Tunnelling - October 2023 Edition

For the trae roles listed below where filled by non-UK qualified persons, the Principal Contractor will be required to: (1) demonstrate in writing that Training and Experience elements are compiled with via a Professional Review, in addition to (2) validation of the Sills, Knowledge and Attitude via a suitably competent person in an active working

For specialist trade personnel not exclusively employed in the UK tunnelling construction industry, working less than 3 months duration: the Training requirements will not be required in lieu of the Principal Contractor providing site specific induction and full time supervision (Supervisor to be fully complaint with SKATE).

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Role Family by Qualification Level	Roles	Skills	Knowledge	Attitud	ie	Training	Experience	Comments
Visitors	Visitors and personnel who do not enter a tunnelling enclosed space regularly (i.e. fewer than three times entry in any 12 month period)	N/A	N/A	Health, Safety and Wellbeing an All are expe Have a sense of responsibility and or safety & we	cted to: wnership for day-to-day health,	Visitor induction including current hazards and self- rescue equipment on every entry Escorted by appropriately trained staff at all times while in tunnel enclosed space	N/A	N/A
Operative / Craft (Level 2)	Tunnel Support Staff Cleaners, Tally persons, etc.	Skills in line with employment task	Knowledge in line with employment task		values. h, safety & wellbeing ys of working stop and ask questions and etc. that can have a positive	TSTS C&G 6151 [When working underground] CSCS Labourer Card Health and Safety Awareness Certificate		Also required Project/Contract specific induction provided by the Principal Contractor
Operative / Craft (Level 2)	TBM Miner/Ring Builder [Machine Tunnelling Operative]	Level 2 NVQ Diploma in Tunnelling Operations [Machine Tunnelling Operative pathway preferred] Interpret the given information relating to work and resources when excavating for and building temporary or permanent tunnel linings. Select the required quantity and quality of resources for the methods of work to complete the work in the allocated time and to the required specifications.		Many project Clients, Principal Contractors, Contractors, Employers and Designers within the sector have cultural development and/or behavioural based safety programmes Operatives at all levels should be engaged in any cultural development programmes and show willingness to take part by consistently demonstrating good practice	e core behavioural va tred to: for day-to-day health, d more effective ways, d more effective ways eam members and te ge and experience, st when required logies, equipment, etc does and behaviours	CSCS - Skilled Worker Card TSTS C&G 6151 [When working underground]	Familiar with specific TBM being used and method of tunnelling.	Also required Project/Contract specific induction provided by the Principal Contractor
Operative / Craft (Level 2)	Tunnelling Machine Operator [Plant operator involved in the excavation/formati on of the shaft/tunnel]	pathways preferred] Interpret the given information relating to work and resources when excavating for and building temporary or permanent	Level 2 NVQ Diploma in Tunnelling Operations [Tunnelling Machine Operator pathways preferred] Know the relevant legislation and official guidance when excavating for and building temporary or permanent tunnel linings whilst maintaining safe and healthy working practices. Understand how emergencies should be responded to and when and how health and safety control equipment should be used.	and reporting positive events and by observing, correcting and recording unsafe conditions	Health, Safety and Wellbeing an All are experance and a sense of responsibility and ownership. Strive to continuously improve and fin Actively collaborate with other Communicate openly and effectively: share knowled challenge behaviours. Show a willingness to learn new processes, methodo dynamic impact on attitu	CSCS - Skilled Worker Card for Tunnelling Machine being TSTS C&G 6151	Familiar with specific tunnelling plant and equipment operation and method of tunnelling. Relevant plant categories held on a CPCS card, where applicable	Also required Project/Contract specific induction provided by the Principal Contractor

Role Family by Qualification Level	Roles	Skills	Knowledge	Attitude	9	Training	Experience	Comments
Operative / Craft (Level 2)	Hand Miner, Shaft Miner	Level 2 NVQ Diploma in Tunnelling Operations [Hand Mining or Shaft Mining pathways preferred, as appropriate] Interpret the given information relating to work and resources when excavating for and building temporary or permanent tunnel linings. Select the required quantity and quality of resources for the methods of work to complete the work in the allocated time and to the required specifications.	Level 2 NVQ Diploma in Tunnelling Operations [Hand Mining or Shaft Mining pathways preferred, as appropriate] Know the relevant legislation and official guidance when excavating for and building temporary or permanent tunnel linings whilst maintaining safe and healthy working practices. Understand how emergencies should be responded to and when and how health and safety control equipment should be used.		ng behaviours, when required act on attitudes and behaviours	CSCS - Skilled Worker Card TSTS C&G 6151	Appropriate excavation and support setting techniques for different timber headings, shafts or ground conditions	Also required Project/Contract specific induction provided by the Principal Contractor Hand Miners in timber headings should hold a relevant slinger/signaller qualification. Pit bosses/lead miners should hold an appropriate Appointed Person for Lifting or Crane Supervisor qualification where steel sections, etc. are being winched/lifted into position.
Operative / Craft (Level 2)	SCL Nozzle Person	EFNARC C2 certificate - aligned to the 2020 updated to 20200128 ENG-9322.pdf and Level 2 NVQ Diploma in Tunnelling Operations - Sprat Operating Robotic Spraying Equipment EFNARC C2 - Key practical skills and knowledge; Recognise, Implement and Control safe systems for S-Manage Quality Control and Assurance of SCL - Understand and mange the risks associated with the Recognise and implement current Standards and Spe - Understand and operate to Inspection and Test Plans Recognise Mix design and effect on quality - State correct pre to post application techniques and - Recognised key components and state the reasons for Understand the reasons and procedures for early str - State the requirements for Post application Quality C - List the reasons for and actions to be carried out in the NVQ - Key practical skills and knowledge: - Conforming to General Health, Safety and Welfare in Conforming to Productive Working Practices in the W - Moving, Handling and Storing Resources in the Work - Preparing and operating specialist tunnelling plant to Preparing substrate for sprayed concrete in the work - Applying sprayed conc	red Concrete Lining Tunnelling Nozzleman pathway - CL works application of SCL cifications effect on safety and quality r key components of SCL Equipment ength testing ontrol and Assurance e event of concrete fall-outs the Workplace orkplace olace form tunnels in the workplace	Many project Clients, Principal Contractors, Contractors, Employers and Designers within the sector have cultural development and/or behavioural based safety programmes Operatives at all levels should be engaged in any cultural development programmes and show willingness to take part by consistently demonstrating good practice and reporting positive events and by observing, correcting and recording unsafe conditions	Health, Safety and Wellbeing are core behavioural values. All are expected to: Bave a sense of responsibility and ownership for day-to-day health, safety & wellbeing Strive to continuously improve and find more effective ways of working Actively collaborate with other team members and teams Actively, share knowledge and experience, stop and ask questions and challenge beh w a willingness to learn new processes, methodologies, equipment, etc. that can have a positive dynamic impact	EFNARC C2 course CSCS - Skilled Worker Card TSTS C&G 6151	Familiarity with ground conditions and familiarity of equipment being used. Relevant plant categories held on a CPCS card, where applicable	Also required Project/Contract specific induction provided by the Principal Contractor There is a transition period from EFNARC CC certification to EFNARC C2. The EFNRAC C2 certificate includes a five-day course, VR and practical assessment and evidence of at least 40 days of robotic spraying experience: https://efnarc.org/information-efnarcc2 Official EFNARC C2, training and certification plan: https://efnarc.org/s/ENC-C2-V11-20200128_ENG-9322.pdf
Operative / Craft (Level 2)	SCL Hand sprayer	Level 2 NVQ Diploma in Tunnelling Operations pathway - Operating Hand-held spraying equipior L2 NVQ Diploma in Specialist Concrete Occupat Operating Hand-held spraying equipment NVQ - Key practical skills and knowledge: - Conforming to General Health, Safety and Wel- Conforming to Productive Working Practices in - Moving, Handling and Storing Resources in the Preparing and operating specialist tunnelling p - Preparing substrate for sprayed concrete in the - Applying sprayed concrete in the workplace	ions (Construction) - Sprayed Concrete - are in the Workplace the Workplace Workplace ant to form tunnels in the workplace		Health, s Have a sense of respon Strive to contin Actively ate openly and effectively; share kno ness to learn new processes, method	CSCS - Skilled Worker Card TSTS C&G 6151	Familiarity with ground conditions. Hand spraying experience Relevant plant categories held on a CPCS card, where applicable	Also required Project/Contract specific induction provided by the Principal Contractor
Operative / Craft (Level 2)	Tunnelling Operative, Pipejacking or Micro- Tunnelling Operative, Spoil Removal Conveyor Operative, Separation Plant Operative	Level 2 NVQ Diploma in Tunnelling Operations [Relevant pathway preferred to suit job role, as appropriate] Interpret the given information relating to work and resources for tunnelling activities specific and relevant to job role. Select the required quantity and quality of resources for the methods of work to complete the work in the allocated time and to the required specifications.	Level 2 NVQ Diploma in Tunnelling Operations [Relevant pathway preferred to suit job role, as appropriate] Know the relevant legislation and official guidance for tunnelling activities specific and relevant to job role. Understand how emergencies should be responded to and when and how health and safety control equipment should be used.		Communica Show a willingn	CSCS - Skilled Worker Card TSTS C&G 6151	Relevant plant categories held on a CPCS card, where applicable	Also required Project/Contract specific induction provided by the Principal Contractor

Role Family by Qualification Level	Roles	Skills	Knowledge	Attitude		Training	Experience	Comments
Operative / Craft (Level 2)	SCL Pump Operator [above and below ground]	CPCS Technical Test A44 - Practical (mapped to the learning outcomes, achievement of a Red CPCS card follows successful completion of the full Technical Test) or Level 2 NVQ Diploma in Plant Operations (Construction) – Transporting Loads Plant (achievement of a Blue CPCS card follows achievement of NVQ)	CPCS Technical Test A44 - Theory (mapped to the learning outcomes, achievement of a Red CPCS card follows the successful completion of the full Technical Test) or Level 2 NVQ Diploma in Plant Operations (Construction) – Transporting Loads Plant (achievement of a Blue CPCS card follows achievement of NVQ)		ing e behaviours, when required oact on attitudes and behaviours	CPCS Card - Red or Blue Training and authorisation to operate specific concrete pump TSTS C&G 6151	Familiarity with specific pump operation/ method	Also required Project/Contract specific induction provided by the Principal Contractor Note 1: CPCS Red Trained Operator Card holders must register for the relevant Level 2 Plant Operations NVQ prior to the expiry of the card to upgrade to a Blue card. Note 2: Red Trained Operator cards are valid for two years. A CPCS Blue card via NVQ should infer a reasonable level of experience and that competence has been assessed.
Operative / Craft (Level 2)	Loco Driver	CPCS Technical Test A67 - Practical (mapped to the learning outcomes, achievement of a Red CPCS card follows the successful completion of the full Technical Test) or Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Tunnel Transport Operator (achievement of a Blue CPCS card follows achievement of NVQ)	CPCS Technical Test A67 - Theory (mapped to the learning outcomes, achievement of a Red CPCS card follows the successful completion of the full Technical Test) or Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Tunnel Transport Operator achievement of a Blue CPCS card follows achievement of NVQ	Many project Clients, Principal Contractors, Contractors, Employers and Designers within the sector have cultural development and/or behavioural based safety programmes Operatives at all levels should be engaged in any cultural development programmes and show willingness to take part by consistently demonstrating good practice and reporting positive events and by observing, correcting and recording unsafe conditions	Health, Safety and Wellbeing are core behavioural values. All are expected to: All are expected to: Strive to continuously improve and find more effective ways of working Activety collaborate with other team members and teams id effectively; share knowledge and experience, stop and ask questions and challenge to may processes, methodologies, equipment, etc. that can have a positive dynamic impa	CPCS Card - Red or Blue Training and authorisation to operate specific tunnel loco TSTS C&G 6151	Familiarity with specific tunnel loco operation/meth	Also required Project/Contract specific induction provided by the Principal Contractor Note 1: CPCS Red Trained Operator Card holders must register for the relevant Level 2 Plant Operations NVQ prior to the expiry of the card to upgrade to a Blue card. Note 2: Red Trained Operator cards are valid for two years. A CPCS Blue card via NVQ should infer a reasonable level of experience and that competence has been assessed. Note 3: The CPCS A67 category includes endorsements for Electric and Diesel locomotives, up to 10 tonnes and all sizes, and Tandem locomotives. Operators must hold a CPCS card showing the correct relevant endorsement/s for the locomotive/s being operated.
Operative / Craft (Level2)	Multi Service Vehicle (MSV) Operator	CPCS Technical Test A51 A: Articulated types (Multi Carriage) B: Rigid Type Units (Single Carriage) (mapped to the learning outcomes achievement of a Red (Trained) CPCS card follows the successful completion of the full Technical Test or Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Tunnel Transport Operator (achievement of a Blue (Competent) CPCS card follows achievement of NVQ)	CPCS A51 MSV Overview page https://www.nocnjobcards.org/help-and- support/cpcs-support-documents/revision- support-documents/ Please note that to access the MSV A51 you will need to select the appropriate document. Once in this document you will dout not he front page - click on the title of the category in the Category Description column which is hyperlinked to the MSV A51 relevant page.		Have a se St Communicate openly and effective Show a willingness to learn new proce	CPCS Card Red or Blue Training and authorisation to operate specific Multi Service Vehicle MSV Manufacturers Awareness training TSTS C&G 6151	Familiarity with specific Multi Service Vehicle (MSV) and below ground plant and logistics operations	Project Specific Tunnelling Safety Induction and specific tunnel logistics training. Must be trained to be familiar with manufacturer fitted and other retrespectively fitted safety controls and features. Must have specific training in the use of integrated and hand held fire suppression and extinguishing systems and emergency procedures. Note 1: CPCS Red Trained Operator Card holders must register for the relevant Level 2 Plant Operations NVQ prior to the expiry of the card to upgrade to a Blue card. Note 2: Red Trained Operator cards are valid for two years. A CPCS Blue card is NVQ should infer a reasonable level of experience and that competence has been assessed. Note 3: The CPCS ASI category includes endorsements for Electric and Diesel Multi Service Vehicles in category A (Articulated) and Category B (Right). Operators must hold a CPCS card showing the correct relevant endorsement for the MSV being operated.

Role Family by Qualification Level	Roles	Skills	Knowledge	Attitude		Training	Experience	Comments
Operative / Craft (Level 2)	Pit Top / Slinger Signaller	CPCS Technical Test A40 - Practical (mapped to the learning outcomes, achievement of a Red CPCS card follows the successful completion of the full Technical Test) or Level 2 NVQ Diploma in Controlling Lifting Operations - Slinger/Signaller (Construction) (achievement of a Blue CPCS card follows achievement of NVQ)	CPCS Technical Test A40 - Theory (mapped to the learning outcomes, achievement of a Red CPCS card follows the successful completion of the full Technical Test) or Level 2 NVQ Diploma in Controlling Lifting Operations - Slinger/Signaller (Construction) (achievement of a Blue CPCS card follows achievement of NVQ)		ural values. health, safety & wellbeing he ways of working s and teams ask questions and challenge behaviours, when an have a positive dynamic impact on attitudes	CPCS Card - Red or Blue TSTS	Log Book or similar record of Slinger/Signaller duties	Also required Project/Contract specific induction provided by the Principal Contractor Note 1: CPCS Red Trained Operator Card holders must register for the relevant Level 2 Plant Operations NVQ prior to the expiry of the card to upgrade to a Blue card. Note 2: Red Trained Operator cards are valid for two years. A CPCS Blue card via NVQ should infer a reasonable level of experience and that competence has been assessed.
Operative / Craft (Level 2)	Pit Bottom	CPCS Technical Test A40 - Practical (mapped to the learning outcomes, achievement of a Red CPCS card follows the successful completion of the full Technical Test) or Level 2 NVQ Diploma in Controlling Lifting Operations - Slinger/Signaller (Construction) (achievement of a Blue CPCS card follows achievement of NVQ)	CPCS Technical Test A40 - Theory (mapped to the learning outcomes, achievement of a Red CPCS card follows the successful completion of the full Technical Test) or Level 2 NVQ Diploma in Controlling Lifting Operations - Slinger/Signaller (Construction) (achievement of a Blue CPCS card follows achievement of NVQ)	Many project Clients, Principal Contractors, Contractors, Employers and Designers within the sector have cultural development and/or behavioural based safety programmes Operatives at all levels should be engaged in any cultural development programmes and show willingness to take part by consistently demonstrating good practice	vellbeing are core behavio ul are expected to: ownership for day-to-day ove and find more effectiv with other team members and experience, stop and required required ies, equipment, etc. that c	CPCS Card - Red or Blue TSTS C&G 6151	Log Book or similar record of Slinger/Signaller duties	Also required Project/Contract specific induction provided by the Principal Contractor Note 1: CPCS Red Trained Operator Card holders must register for the relevant Level 2 Plant Operations NVQ prior to the expiry of the card to upgrade to a Blue card. Note 2: Red Trained Operator cards are valid for two years. A CPCS Blue card via NVQ should infer a reasonable level of experience and that competence has been assessed.
Operative / Craft (Level 2)	Overhead Crane Operator	CPCS Technical Test A64 - Practical (mapped to the learning outcomes, achievement of a Red CPCS card follows the successful completion of the full Technical Test) or Level 2 NVQ Diploma in Plant Operations - Cranes and Specialist Lifting (Construction) (achievement of a Blue CPCS card follows achievement of NVQ)	CPCS Technical Test A64 - Theory (mapped to the learning outcomes, achievement of a Red CPCS card follows the successful completion of the full Technical Test) or Level 2 NVQ Diploma in Plant Operations - Cranes and Specialist Lifting (Construction) (achievement of a Blue CPCS card follows achievement of NVQ)	and reporting positive events and by observing, correcting and recording unsafe conditions	Health, S se of respont ve to continu Actively tively: share processes, n	CPCS Card - Red or Blue TSTS	Log Book or similar record of overhead crane operation activities	Also required Project/Contract specific induction provided by the Principal Contractor Note 1: CPCS Red Trained Operator Card holders must register for the relevant Level 2 Plant Operations NVQ prior to the expiry of the card to upgrade to a Blue card. Note 2: Red Trained Operator cards are valid for two years. A CPCS Blue card via NVQ should infer a reasonable level of experience and that competence has been assessed.
Operative / Craft (Level 2) + Advanced Craft (Level 3)	Tunnel Fitter	Relevant Apprenticeship at Level 2 or Level 3 or Relevant Plant Maintenance Competence Qualification at Level 2 or Level 3	Relevant Apprenticeship at Level 2 or Level 3 or Relevant Plant Maintenance Knowledge Qualification at Level 2 or Level 3		Have a sen Stri Communicate openly and effec Show a willingness to learn new	CSCS Skilled Worker or Gold Card TSTS C&G 6151	EngTech professional registration with IMechE or similar relevant professional body + Record of ongoing CPD	Also required Project/Contract specific induction provided by the Principal Contractor

Role Family by Qualification Level	Roles	Skills	Knowledge	Attitude	1	Training	Experience	Comments
Operative / Craft (Level 2) + Advanced Craft (Level 3)	Tunnel Welder	Relevant Apprenticeship at Level 2 or Level 3 or Relevant Welding Competence Qualification at Level 2 or Level 3	Relevant Apprenticeship at Level 2 or Level 3 or Relevant Welding Knowledge Qualification at Level 2 or Level 3		& wellbeing king ask questions and ave a positive dynamic	Gold Card TSTS C&G 6151	Records of completing and achieving relevant Welding procedures qualification tests plus record of ongoing testing	Also required Project/Contract specific induction provided by the Principal Contractor
Operative / Craft (Level 2) + Advanced Craft (Level 3)	Tunnel Fabricator	Relevant Apprenticeship at Level 2 or Level 3 or Relevant Fabrication Competence Qualification at Level 2 or Level 3	Relevant Apprenticeship at Level 2 or Level 3 or Relevant Fabrication Knowledge Qualification at Level 2 or Level 3	Many project Clients, Principal	ral values. ealth, safety ways of wor and teams ice, stop and	CSCS Skilled Worker or Gold Card TSTS C&G 6151	Records of completing and achieving relevant Welding procedures qualification tests plus record of ongoing testing, where requiredH17:117	Also required Project/Contract specific induction provided by the Principal Contractor
Advanced Craft (Level 3)	TBM Operator	Level 3 NVQ Diploma in Tunnelling Operations [Tunnel Boring Machine Operator] Team work and communication. Record and report information Identify the characteristics of Earth Pressure Balance and Slurry TBM used for the construction and formation of tunnels. Carry out function checks for the tunnelling operation and operate TBM hydraulic systems taking account of ground pressure and strata, geological, environmental and material changes; Interpret, analyse and process the TBM visual display and computer data systems to advance the TBM's operation and to identify alignment and rate of advance and adjust TBM settings to maintain alignment. Safely shut down and secure the TBM and record and report information.	Level 3 NVQ Diploma in Tunnelling Operations [Tunnel Boring Machine Operator] Know the relevant legislation and official guidance when building temporary or permanent tunnel linings whilst maintaining safe and healthy working practices. Understand how emergencies should be responded to and when and how health and safety control equipment should be used.	Contractors, Contractors, Employers and Designers within the sector have cultural development and/or behavioural based safety programmes Operatives at all levels should be engaged in any cultural development programmes and show willingness to take part by consistently demonstrating good practice and reporting positive events and by observing, correcting and recording unsafe conditions	lealth, Safety and Wellbeing are All are expects All are expects responsibility and ownership for o continuously improve and find o cothy collaborate with other te and effectively: share knowledge challenge behaviours, with the processes, methodologies, impact on attitudes and impact on attitudes and expectively.	CSCS - Gold Card TBM manufacturer specific training ISIS C&G 6151	Familiarity with specific TBM operation/method (for Slurry TBM's to include communication protocols with Separation Plant Operatives)	Also required Project/Contract specific induction provided by the Principal Contractor
Advanced Craft (Level 3)	Tunnel Electrician	Relevant Apprenticeship at Level 3 or Relevant Electrotechnical Competence Qualification at Level 2 or Level 3	Relevant Apprenticeship at Level 3 or Relevant Electrotechnical Knowledge Qualification at Level 2 or Level 3		Have a sense of Strive to Communicate openly Show a willingness to learr	ECS Installation or Maintenance Electrician Card 18th Edition IEE Regs Qualification TSTS C&G 6151	Hold ECS Registered Electrician Status + maintain record of ongoing CPD	Also required Project/Contract specific induction provided by the Principal Contractor

Role Family by Qualification Level	Roles	Skills	Knowledge	Attitude	2	Training	Experience	Comments
Work Supervision (Level 3)	Chargehand / Foreman Fitter	Level 3 NVQ Diploma in Occupation	o / competence / knowledge qualifications + nal Work Supervision (Construction) + te in Team Leading		& wellbeing rking ask questions and can have a positive	SSSTS TSTS <u>C&G 6151</u>	EngTech professional registration with IMechE or similar relevant professional body + Record of ongoing CPD	Also required Project/Contract specific induction provided by the Principal Contractor
Work Supervision (Level 3)	Chargehand / Foreman Electrician	qualif Level 3 NVQ Diploma in Occupatio	enticeship / competence / knowledge ications + nal Work Supervision (Construction) + ie in Team Leading	Many project Clients, Principal Contractors, Contractors, Employers and Designers within the sector have cultural development and/or behavioural based safety programmes	re behavioural values. to: lay-to-day health, safety ore effective ways of wor n members and teams and experience, stop and en required es, equipment, etc. that c and behaviours	ECS Technician Card C4G 2391 Inspection and Testing Qualification SSSTS TSIS C&G 6151	Hold ECS Registered Electrician Status and/or EngTech professional registration with IET or similar relevant professional body + maintain record of ongoing CPD	Also required Project/Contract specific induction provided by the Principal Contractor
Work Supervision (Level 3)	Lead Miner / Pit Boss Tunnelling Inspector / NEC Inspector	Level 3 NVQ Diploma in Occupatio	competence qualification + nal Work Supervision (Construction) + ie in Team Leading	Supervisors should support the programmes and be willing and engaged and should actively encourage involvement of the workforce. They should monitor activities for compliance with written systems of work and required standards and should consistently demonstrate, recognise and reward good practice and appropriate behaviours. Where any	ty and Wellbeing are All are expect All are expect lity and ownership Kelsy improve and find aborate with other to vely; share knowledgiallenge behaviours, processes, methodolomic impact on attitud	SSSTS [SMSTS for Pit_ Bosses and Inspectors] TSTS C&G 6151	EngTech professional registration with ICE or similar relevant professional body + Record of ongoing CPD	Also required Project/Contract specific induction provided by the Principal Contractor
Supervisory (Level 4)	Crane Supervisor	CPCS Technical Test A62 - Practical (mapped to the learning outcomes, achievement of a Red CPCS card follows the successful completion of the full Technical Test) or Level 4 NVQ Diploma in Controlling Lifting Operations - Supervising (achievement of a Blue CPCS card follows achievement of NVQ)	CPCS Technical Test A62 - Theory (mapped to the learning outcomes, achievement of a Red CPCS card follows the successful completion of the full Technical Test) or Level 4 NVQ Diploma in Controlling Lifting Operations - Supervising (achievement of a Blue CPCS card follows achievement of NVQ)	shortfalls are identified, a consistent respectful, fair and just approach to dealing with all personnel is required	Health, Safety ar Have a sense of responsibility a Strive to continuously ir Actively collabor Communicate openly and effectively: challet Show a willingness to learn new proce dynamic ir	CPCS Card - Red or Blue ISIS C&6 6151 [if working underground]	Log Book or similar record of supervised lifts	Also required Project/Contract specific induction provided by the Principal Contractor Note 1: CPCS Red Trained Operator Card holders must register for the relevant Level 2 Plant Operations NVQ prior to the expiry of the card to upgrade to a Blue card. Note 2: Red Trained Operator cards are valid for two years. A CPCS Blue card via NVQ should infer a reasonable level of experience and that competence has been assessed.

Role Family by Qualification Level	Roles	Skills	Knowledge	Attitud	e	Training	Experience	Comments
Management (Level 5)	Appointed Person for Lifting	CPCS Technical Test A61 - Practical (mapped to the learning outcomes, achievement of a Red CPCS card follows the successful completion of the full Technical Test) or Level 5 NVQ Diploma in Controlling Lifting Operations - Planning Lifts (achievement of a Blue CPCS card follows achievement of NVQ)	CPCS Technical Test A61 - Theory (mapped to the learning outcomes, achievement of a Red CPCS card follows the successful completion of the full Technical Test) or Level 5 NVQ Diploma in Controlling Lifting Operations - Planning Lifts (achievement of a Blue CPCS card follows achievement of NVQ)		values. h, safety & wellbeing ys of working teams ions and challenge behaviours, when required sitive dynamic impact on attitudes and behaviours	SMSTS CPCS Card - Red or Blue TSTS C&G 6151	Log Book or similar record of planned lifts	Also required Project/Contract specific induction provided by the Principal Contractor Note 1: CPCS Red Trained Operator Card holders must register for the relevant Level 2 Plant Operations NVQ prior to the expiry of the card to upgrade to a Blue card. Note 2: Red Trained Operator cards are valid for two years. A CPCS Blue card via NVQ should infer a reasonable level of experience and that competence has been assessed.
Supervisory and Management (Level 4 to Level 6)	Tunnel Superintendent / Shift Manager / Agent / Sub Agent	Construction and Built Environment S include Supervision in ' NVQ Level 4 in Construction Level 6 NVQ Diploma in Construction	hip and Management Practice for the ector - Award, Certificate or Diploma to Tunnelling Environments + Site Supervision – Tunnelling or Site Management (should include the Iling activities in the workplace)	Many project Clients, Principal Contractors, Contractors, Employers and Designers within the sector have cultural development and/or behavioural based safety programmes Those in Management and Leadership roles should actively promote and be fully engaged and committed to the programmes. They should set an exceptional personal example and commitment to achieving a positive outcome, and should champion and promote workforce engagement and, recognise and reward good practice and behaviours. They should ensure and monitor that adequate resources and appropriate expectations,	illbeing are core behavioural vare expected to: are expected to: are and find more effective wa iff outher team members and preficince, stop and ask quest ment, etc. that can have a poo	SMSTS CSCS Supervisor, Manager, AQP or PQP Card TSTS C&G 6151	Appropriate level of professional registration with ICE or similar relevant professional body + Record of ongoing CPD	Also required Project/Contract specific induction provided by the Principal Contractor
Management (Level 5 to Level 7)	Tunnel Manager Tunnel Project Manager		educational base at Level 5-7 + on in Leadership and Management	targets, standards and requirements are set and adhered to. Managers and Leaders should ensure that all personnel are being treated with respect and engaged in a consistently fair and just manner	Health, Safety and We All Have a sense of responsibility and on Strive to continuously improv Actively collaborate w e openly and effectively: share knowledge and es ss to learn new processes, methodologies, equip	SMSTS CSCS Supervisor, Manager, AQP or PQP Card TSTS C&G 6151	Appropriate level of professional registration with ICE or similar relevant professional body + Record of ongoing CPD + Tunnel experience relevant to the type of tunnel being managed	Also required Project/Contract specific induction provided by the Principal Contractor
Supervisory and Management (Level 3 to Level 7)	Shift Engineer Site Engineer Section Engineer	e.g. Level 3 = A levels/BTEC; Level 4 = I	educational base at Level 3-7; HNC; Level 5 = Foundation Degree/HND, , Level 7 = Master's Degree		Communicate o Show a willingness	SSSTS for Site/Shift Engineers SMSTS for Section Engineer and above CSCS AQP or PQP Card TSTS C&G 6151	Appropriate level of professional registration with ICE or similar relevant professional body + Record of ongoing CPD	Also required Project/Contract specific induction provided by the Principal Contractor

Role Family by Qualification Level	Roles	Skills	Knowledge	Attitud	e	Training	Experience	Comments
Technical, Supervisory and Management (Level 3 to Level 7)	surveyors, quality	3 e.g. Level 3 = A levels/BTE Foundation Degree/HND,	or educational base at Level -7; :C; Level 4 = HNC; Level 5 = Level 6 = Ordinary Degree, ster's Degree		nural values. health, safety & wellbeing we ways of working s and teams stop and ask questions and challenge etc. that can have a positive dynamic s	CSCS Supervisor, Manager, AQP or PQP Card TSTS C&G 6151	Appropriate level of professional registration with a relevant professional body + Record of ongoing CPD	Also required Project/Contract specific induction provided by the Principal Contractor
Design (Level 5 to Level 8)	Design engineers and design-related staff - Site and Office-based	e.g. Level 5 = Foundatio Ordinary Degree, Level 7 =	use at Level 5-8; n Degree/HND, Level 6 = : Master's Degree, Level 8 = HD	Many project Clients, Principal Contractors, Contractors and Employers within the sector have cultural development and/or behavioural based safety programmes Designers should be fully engaged and committed to cultural development, behavioural programmes and CPD. This should include keeping up-to-date with best practise and lessons learned in tunnelling and underground construction worldwide.	Health, Safety and Wellbeing are core behavious All are expected to: Have a sense of responsibility and ownership for day-to-day he Strive to continuously improve and find more effective Actively collaborate with other team members a Communicate openly and effectively: share knowledge and experience, st behaviours, when required Show a willingness to learn new processes, methodologies, equipment, et impact on attitudes and behaviours	For site-based staff - CSCS Supervisor, Manager, AQP or PQP Card For those working in or regularly visiting shafts and tunnels under construction - TSTS C&G 6151	Appropriate level of professional registration with a relevant professional body + Record of ongoing CPD	Also required Project/Contract specific induction provided by the Principal Contractor

Guidance Notes

Considerations when using the matrix:

1	For non-UK qualifications, employers must map these qualifications against the UK qualifications and requirements defined in matrix tab, to evaluate suitability and currency and identify any skills gaps. Such academic equivalency checks can be carried out by https://www.enic.org.uk/ This equivalency check will also simplify international personnel who would be seeking Professional Qualifications via UK Membership Institutions.
2	The matrix is a live document. It will be regularly updated based on any changes of context and new or updated qualifications and card schemes, as they become available. It will also take into account client and industry feedback.
3	The matrix reflects the CLC recommendation on Industry Card Schemes published in December 2020 that specifies and promotes card schemes carrying the CSCS logo for recognised construction occupations, with no equivalents accepted. The bulk of the tunnelling occupations in the SKATE matrix are directly covered by the CSCS and CPCS card schemes.
4	People can be enrolled on an NVQ but may not have completed it as it takes a period of time to complete the qualification and receive the certification. NVQs cannot be therefore be simply considered as a Y/N response, registration onto the qualification is also part of the process.
5	There can be alternative routes to competence for each occupation. There should be ways available for people to demonstrate this so that alternative routes can be appropriately reviewed.
6	If someone has completed a competence qualification a number of years ago, the currency of this qualification should be checked and assessed to understand if holders need any further support when starting a particular role. The client can ask for clarity of any qualification benchmarking processes used for this.
7	Potential challenges to consider: shortage of NVQs assessors for particular qualifications, poor quality of training, etc. This can be discussed with organisations who are involved and other stakeholders such as Awarding Bodies, training providers, CITB and TunnelSkills.

Competence & Qualification Levels

Competence:

The information below has been taken from eCOTOOL in March 2020 - https://www.simongrant.org/pubs/resources/eCOTOOL High Level Competence Model Explanation EN.pdf

Level 1	Abilities at level 1 recognise basic general knowledge and skills as well as the capacity to undertake simple and general tasks under supervision.
Level 2	Abilities at level 2 recognise field-specific practical and theoretical knowledge and skills as well as the capacity to carry out tasks under direction.
Level 3	Abilities at level 3 recognise broader theoretical and practical knowledge and skills as well as the capacity to apply knowledge and skills in developing strategic solutions to well-defined abstract and concrete problems.
Level 4	Abilities at level 4 recognise detailed theoretical and practical knowledge, skills and competences, some of which is at the forefront of the field.
Level 5	Abilities at level 5 recognise highly specialised self-directed, theoretical and practical knowledge and skills as well as the capacity for critical analysis, evaluation and synthesis of new and complex ideas including substantial research.

Qualifications:

Explanations/Examples of qualifications at different level are available at the government website: <a href="https://www.gov.uk/what-different-qualification-levels-mean/list-of-qualification-levels-mean-levels-

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Title	Details	tink
ROGEP	Register of Ground Engineering Professionals	$\underline{\text{https://www.ice.org.uk/careers-and-training/careers-advice-for-civil-engineers/specialist-professional-registers\#RoGEP}$
	EFNARC Nozzleman Scheme	https://efnarc.org/nozzleman-scheme-1
EFNARC	EFNARC Nozzleman C2 Certificate	https://efnarc.org/information-efnarcc2
	EFNARC Examiner Certificate	https://efnarc.org/examiner-certificate
	Construction Skills Certification Scheme	https://www.cscs.uk.com/_
	Labourer	https://www.cscs.uk.com/card-type/labourer/
	Apprentice	https://www.cscs.uk.com/card-type/apprentice/
	Experienced Technical Supervisor or Manager	https://www.cscs.uk.com/card-type/experienced-technical-supervisor-or-manager/
	Experienced Worker	https://www.cscs.uk.com/card-type/experienced-worker/
	Trainee	https://www.cscs.uk.com/card-type/trainee-card/
CSCS	Skilled Worker	https://www.cscs.uk.com/card-type/skilled-worker/
	Advanced Craft	https://www.cscs.uk.com/card-type/advanced-craft/
	Supervisor	https://www.cscs.uk.com/card-type/supervisory/
	Manager	https://www.cscs.uk.com/card-type/manager/
	AQP - Academically Qualified Person	https://www.cscs.uk.com/card-type/academically-qualified-person/
-	PQP - Professionally Qualified Person	https://www.cscs.uk.com/card-type/professionally-qualified-person/
	Construction Plant Competence Scheme - Scheme Booklet for Operators	https://www.nocnjobcards.org/data/General_Downloads/CPCSSchemeBookletforOperators0320.pdf
CPCS	Plant Operator - Red Trained Operator Card	https://www.nocnjobcards.org/CPCS/cpcs-red-trained-operator-card/
Crus	Plant Operator - Blue Competent Operator Card	https://www.nocnjobcards.org/CPCS/cpcs-blue-competent-operator-card/
	Plant Tester	https://www.nocnjobcards.org/CPCS/cpcs-tester-card/
	Plant Tester - Scheme Booklet	https://www.nocniobcards.org/data/General_Downloads/CPCSSchemeBookletforTesters050620.df
SSP	Site Safety Plus - Principal Scheme Rules	https://www.citb.co.uk/standards-and-delivering-training/site-safety-plus-ssp/_
SSSTS	Site Safety Plus - Site Safety Plus - Site Supervisors' Safety Training Scheme	https://www.citb.co.uk/national-construction-college/health-safety-and-sustainability-courses/site-supervisors-safety-training-scheme-sssts/?id=82399
SMSTS	Site Safety Plus - Site Managers' Safety Training Scheme	https://www.citb.co.uk/national-construction-college/health-safety-and-sustainability-courses/site-management-safety-training-scheme-smsts/7id=82381
TSTS	Site Safety Plus - Tunnelling Safety Training Scheme	https://www.citb.co.uk/standards-and-delivering-training/site-safety-plus-ssp/courses-available/tunnelling-safety-training-scheme-tsts/?id=82437
SEATS	Site Safety Plus - Site Environmental Training Scheme	https://www.citb.co.uk/standards-and-delivering-training/site-safety-plus-ssp/courses-available/site-environmental-awareness-training-scheme/?id=82453
TWCTC	Site Safety Plus - Temporary Works Co-ordinator Training Course	https://www.cilb.co.uk/standards-and-delivering-training/site-safety-plus-ssp/courses-available/temporary-works-co-ordinator-training-course-twete/?id=82429
TWSTC	Site Safety Plus - Temporary Works Supervisor Training Course	https://www.citb.co.uk/standards-and-delivering-training/site-safety-plus-ssp/courses-available/temporary-works-supervisor-training-course-twistc/?id=82477
City & Guilds 6151	City & Guilds 6151 - Tunnel Entry and Associated Emergency Procedures	${\tt https://www.cityandguilds.com/qualifications-and-apprenticeships/utilities/otilities/s151-tunnel-entry#tab=information}$
NOCN		
NOCN	National Open College Network	https://www.nocn.org.uk/
NOCN	National Open College Network Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Sprayed Concrete Lining Tunnelling Nozzleman	https://www.nocn.org.uk/ NOCN_Cskills Awards Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Sprayed Concrete Lining Tunnelling Nozzleman
NOCN		
NOCN	Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Sprayed Concrete Lining Tunnelling Nozzleman	NOCN_Cskills Awards Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Sprayed Concrete Lining Tunnelling Nozzleman
INUCN	Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Sprayed Concrete Lining Tunnelling Nozzleman Level 2 NVQ Diploma in Specialist Concrete Occupations (Construction) - Sprayed Concrete	NOCN_Cskills Awards Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Sprayed Concrete Lining Tunnelling Nozzleman NOCN_Cskills Awards Level 2 NVQ Diploma in Specialist Concrete Occupations (Construction) - Sprayed Concrete
INUCN	Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Sprayed Concrete Lining Tunnelling Nozzleman Level 2 NVQ Diploma in Specialist Concrete Occupations (Construction) - Sprayed Concrete Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Tunnelling Operative	NOCN_Cskills Awards Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Sprayed Concrete Lining Tunnelling Nozzleman NOCN_Cskills Awards Level 2 NVQ Diploma in Specialist Concrete Occupations (Construction) - Sprayed Concrete NOCN Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Tunnelling Operative
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PROCEN	Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Sprayed Concrete Lining Tunnelling Nozzleman Level 2 NVQ Diploma in Specialist Concrete Occupations (Construction) - Sprayed Concrete Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Tunnelling Operative Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Pipejacking/Micro-tunnelling Operative Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Spoil Removal Conveyor Operative	NOCN_Cskills Awards Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Sprayed Concrete Lining Tunnelling Nozzleman NOCN_Cskills Awards Level 2 NVQ Diploma in Specialist Concrete Occupations (Construction) - Sprayed Concrete NOCN Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Tunnelling Operative NOCN Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Pipejacking/Micro-tunnelling Operative NOCN Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Spoil Removal Conveyor Operative
PICLN	Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Sprayed Concrete Lining Tunnelling Nozzleman Level 2 NVQ Diploma in Specialist Concrete Occupations (Construction) - Sprayed Concrete Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Tunnelling Operative Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Pipejacking/Micro-tunnelling Operative Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Spoil Removal Conveyor Operative Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Tunnel Transport Operator	NOCN_Cskills Awards Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Sprayed Concrete Lining Tunnelling Nozzleman NOCN_Cskills Awards Level 2 NVQ Diploma in Specialist Concrete Occupations (Construction) - Sprayed Concrete NOCN Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Tunnelling Operative NOCN Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Pipejacking/Micro-tunnelling Operative NOCN Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Spoil Removal Conveyor Operative NOCN Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Tunnel Transport Operator
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NOCN Qualifications	Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Sprayed Concrete Lining Tunnelling Nozzleman Level 2 NVQ Diploma in Specialist Concrete Occupations (Construction) - Sprayed Concrete Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Tunnelling Operative Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Pipejacking/Micro-tunnelling Operative Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Spoil Removal Conveyor Operative Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Tunnel Transport Operator Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Tunnelling Machine Operator Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Machine Tunnelling Operative Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Machine Tunnelling Operative Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Shaft Miner Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Building and Civil Engineering Level 4 NVQ Diploma in Construction Site Supervision - Tunnelling Level 3 NVQ Diploma in Tunnelling Operations - Tunnel Boring Machine Operator (Construction) Level 2 NVQ Certificate in Plant Operations (Construction) - Cranes and Specialist Lifting Level 2 NVQ Diploma in Controlling Lifting Operations - Slinger/Signaller (Construction) Level 4 NVQ Diploma in Controlling Lifting Operations - Supervising Lifts (Construction) Level 4 NVQ Diploma in Controlling Lifting Operations - Supervising Lifts (Construction)	NOCN. Cskills Awards Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Sprayed Concrete Lining Tunnelling Nozzleman NOCN. Cskills Awards Level 2 NVQ Diploma in Specialist Concrete Occupations (Construction) - Sprayed Concrete NOCN Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Tunnelling Operative NOCN Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Pipejacking/Micro-tunnelling Operative NOCN Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Spoil Removal Conveyor Operative NOCN Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Tunnel Transport Operator NOCN Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Tunnelling Machine Operator NOCN Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Machine Tunnelling Operative NOCN Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Hand Miner NOCN Constitution of NVQ Diploma in Tunnelling Operations (Construction) - Hand Miner NOCN Level 6 NVQ Diploma in Construction Site Management - Building and Civil Engineering NOCN Cskills Awards Level 3 NVQ Diploma in Construction Site Supervision - Tunnelling NOCN Cskills Awards Level 3 NVQ Diploma in Tunnelling Operations - Tunnel Boring Machine Operator (Construction) NOCN Level 2 NVQ Certificate in Plant Operations (Construction) - Cranes and Specialist Lifting NOCN Level 2 NVQ Diploma in Construction Supervision - Singer/Signaller (Construction) NOCN Level 2 NVQ Diploma in Construction Supervision Lifts (Construction)
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NOCN Qualifications	Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Sprayed Concrete Lining Tunnelling Nozzleman Level 2 NVQ Diploma in Specialist Concrete Occupations (Construction) - Sprayed Concrete Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Tunnelling Operative Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Pipejacking/Micro-tunnelling Operative Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Spoil Removal Conveyor Operative Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Tunnel Transport Operator Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Tunnelling Machine Operator Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Tunnelling Machine Operator Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Machine Tunnelling Operative Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Hand Miner Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Hand Miner Level 6 NVQ Diploma in Construction Site Management - Building and Civil Engineering Level 4 NVQ Diploma in Construction Site Supervision - Tunnelling Operator (Construction) Level 2 NVQ Diploma in Construction (Construction) - Cranes and Specialist Lifting Level 3 NVQ Diploma in Controlling Lifting Operations - Singer/Signaller (Construction) Level 4 NVQ Diploma in Controlling Lifting Operations - Planning Lifts (Construction) Level 5 NVQ Diploma in Controlling Lifting Operations - Planning Lifts (Construction) Level 2 NVQ Certificate in Team Leading Level 3 Qualifications in Leadership and Management Level 2 Certificate in Team Leading Level 3 Qualifications in Leadership and Management Level 5 Qualifications in Leadership and Management	NOCN. Cskills Awards Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Sprayed Concrete Lining Tunnelling Nozzleman NOCN. Cskills Awards Level 2 NVQ Diploma in Specialist Concrete Occupations (Construction) - Sprayed Concrete NOCN Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Tunnelling Operative NOCN Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Spoil Removal Conveyor Operative NOCN Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Tunnel Transport Operator NOCN Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Tunnelling Machine Operator NOCN Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Tunnelling Machine Operator NOCN Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Machine Tunnelling Operative NOCN Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Shaft Miner NOCN Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Hand Miner NOCN Level 6 NVQ Diploma in Tunnelling Operations (Construction) - Hand Miner NOCN Level 6 NVQ Diploma in Construction Site Management - Building and Civil Engineering NOCN Cskills Awards Level 3 NVQ Diploma in Construction Site Supervision - Tunnelling NOCN Level 2 NVQ Certificate in Plant Operations (Construction) - Cranes and Specialist Lifting NOCN Level 2 NVQ Diploma in Controlling Lifting Operations - Singer/Signaller (Construction) NOCN Level 4 NVQ Diploma in Controlling Lifting Operations - Supervising Lifts (Construction) NOCN Level 5 NVQ Diploma in Controlling Lifting Operations - Planning Lifts (Construction) NOCN Level 5 NVQ Diploma in Controlling Lifting Operations - Planning Lifts (Construction) NOCN Level 5 NVQ Diploma in Controlling Lifting Operations - Planning Lifts (Construction)
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NOCN Qualifications ILM ILM Qualifications	Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Sprayed Concrete Lining Tunnelling Nozzleman Level 2 NVQ Diploma in Specialist Concrete Occupations (Construction) - Sprayed Concrete Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Tunnelling Operative Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Pipejacking/Micro-tunnelling Operative Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Spoil Removal Conveyor Operative Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Tunnel Transport Operator Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Tunnelling Machine Operator Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Machine Tunnelling Operative Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Machine Tunnelling Operative Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Hand Miner Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Hand Miner Level 6 NVQ Diploma in Construction Site Management - Building and Civil Engineering Level 4 NVQ Diploma in Construction Site Supervision - Tunnelling Level 3 NVQ Diploma in Tunnelling Operations - Tunnel Boring Machine Operator (Construction) Level 2 NVQ Certificate In Plant Operations (Construction) - Cranes and Specialist Lifting Level 2 NVQ Diploma in Controlling Lifting Operations - Slinger/Signaller (Construction) Level 4 NVQ Diploma in Controlling Lifting Operations - Supervising Lifts (Construction) Level 5 NVQ Diploma in Controlling Lifting Operations - Planning Lifts (Construction) Institute of Leadership and Management Level 2 Certificate in Team Leading Level 3 Qualifications in Leadership and Management Level 3 Qualifications in Leadership and Management Level 5 Qualifications in Leadership and Management Level 5 Qualifications in Leadership and Management Level 5 Construction of Civil Engineers Level 5 Qualification of Materials, Minerals and Mining MechE - Institution of Materials, Minerals and Mining	NOCN Cskills Awards Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Sprayed Concrete Lining Tunnelling Nozzleman NOCN Cskills Awards Level 2 NVQ Diploma in Specialist Concrete Occupations (Construction) - Sprayed Concrete NOCN Level 2 NVQ Diploma in Tunnelling Operatives (Construction) - Pipejacking/Micro-tunnelling Operative NOCN Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Spoil Removal Conveyor Operative NOCN Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Spoil Removal Conveyor Operative NOCN Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Spoil Removal Conveyor Operative NOCN Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Tunnelling Operations (Construction) - Nachine Tunnelling Operations - Tunnelling Operations (Construction) - Nachine Tunnelling Operations - Singer/Signaller (Construction) - Nachine View of Nachine Tunnelling Operations - Singer/Signaller (Construction) - Nachine View of Nachine Operations - Nachine Tunnelling Operations - Singer/Signaller (Construction) - Nachine View of Nachine View
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Behavioural, Leadership and Management Courses

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ILM Level 3 Diploma for Managers	https://www.i-i-m.com/-/media/ilm-website/sharepoint-documents/ published-documents/level-3-diploma-for-managers-mapping-to-team-leader-supervisor-apprenticeship-behaviours,-dpdf.ashx
ILM Level 4 Qualifications in Leadership and Management	https://www.i-i-m.com/-/media/ilm-website/sharepoint-documents/ published-documents/level-4-qualifications-in-leadership-and-management-ilm-q-card,-d-,pdf.ashx
ILM Level 5 Diploma for Leaders and Managers	https://www.i-l m.com/ /media/illm website/sharepoint documents/_published documents/level 5 diploma for leaders and managers mapping to operations departmental manager apprenticeship behaviours, d-,pdf.ashx
icivi cevei o Award and Dipiorna in Management	https://www.i-i-m.com/-/media/ilm-website/sharepoint-documents/ published-documents/level-b-award-and-diploma-in-management,-d-,pdf.ashx
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Many project Clients, Principal Contractors, Contractors, Employers and Designers within the sector have cultural development and/or behavioural based safety programmes.

Operatives at all levels should be engaged in any cultural development programmes and show willingness to take part by consistently demonstrating good practice and reporting positive events and by observing, correcting and recording unsafe conditions

Supervisors should support cultural development programmes and be willing and engaged and actively encourage the involvement of all of the workforce. Supervisors should monitor activities for compliance with written systems of work and required standards and they should consistently demonstrate, recognise and reward good practice and appropriate behaviours. Where any shortfalls are identified, a consistent respectful, fair and just approach to dealing with all personnel is required.

Those in Management and Leadership roles should actively promote and be fully engaged and committed to cultural development programmes. They should set an exceptional personal example and commitment to achieving a positive outcome, and should champion and promote workforce engagement and, recognise and reward good practice and behaviours. They should ensure that all personnel are being treated with respect and engaged in a consistently fair and just manner.

Those in Design roles should be fully engaged and committed to cultural development, behavioural programmes and CPD. This should include keeping up-to-date with best practice and lessons learned in tunnelling and underground construction worldwide.