

Transforming Tunnelling Safety

Tunnel safety doesn't happen by accident

Skills
Knowledge
Attitude
Training
Experience

SKATE Matrix
Jan 2021 Edition

Next revision due: Jan 2022

SKATE [Skills, Knowledge, Attitude, Training, Experience] Competence Matrix for Tunnelling - January 2021 Edition

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Role Family by Qualification Level	Roles	Skills	Knowledge	Attitude		Training	Experience	Comments
Operative / Craft (Level 2)	Tunnel Support Staff Cleaners, Tally persons, etc.	Skills in line with employment task	Knowledge in line with employment task	Many project Clients, Principal Contractors, Contractors, Employers and Designers within the sector have cultural development and/or behavioural based safety programmes		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] 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.	Level 2 NVQ Diploma in Tunnelling Operations [Machine Tunnelling Operative pathway 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.	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	haviours, when required on attitudes and behaviours	CSCS - Skilled Worker Card ISIS 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/formation of the shaft/tunnel]	Level 2 NVQ Diploma in Tunnelling Operations [Tunnelling Machine Operator pathways 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.	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 whist 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.	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	sing are core behavioural values. rship for day-to-day health, safety & wellbeing and find more effective ways of wording bether team members and teams fetters, stop and ask questions and challenge between the control of the contro	CSCS - Skilled Worker Card Le Blue CPCS Card for Tunnelling, Machine being operated if the machine, falls into a Plant Category in the CPCS. Schemel. ZSC 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
Operative / Craft (Level 2)	Hand Miner, Shaft Miner	Level 2 NVQ Diploms 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 regime duantity 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 exavating for and building temporary or permanent tunnel linnings whilst maintaining stand to the maintaining stand to the standard to the control of the	consistently demonstrating good practice and reporting positive events and by observing, correcting and recording unsafe conditions	Health, Safety and Wellbe All are of responsibility and owner to continuously improve a Actively Collaborate with share knowledge and expensions, methodologies, equipmens,	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/signalier qualification. Pit bosses/lead micraes should hold an appropriate qualification. Pit bosses/lead micraes should hold an appropriate oppointed Person cirling or micrae supervisor qualification where steel sections, etc. are being winched/lifted into position.
Operative / Craft (Level 2)	SCL Nozzie Person	EFNARC C2 certificate - aligned to the 2020 upda V11-20200128_ENG-9322.pdf and Level 2 NVQ Diploma in Tunnelling Operations-pathway - Operating Robotic Spraying Equipme EFNARC C2 - Key practical skills and knowledge; - Recognise, Implement and Control safe systems - Manage Quality Control and Assurance of SCL. Understand and mange the risks associated with - Recognise and implement current Standards an - Understand and operate to Inspection and Test - Recognise Mix design and effect on quality - State correct pore to post application techniques Recognise Mix design and effect on quality - State correct pore to post application techniques Recognised key components and state the reas-Understand the reasons and procedures for earl - State the requirements for Post application Cual-List the reasons for and actions to be carried ou NVQ Key practical skills and knowledge: - Conforming to Forductive Working Practices in - Moving, Handling and Storing Resources in the - Preparing and operating specialist tunnelling ple - Preparing substrate for sprayed concrete in the - Applying sprayed concrete in the workplace	Sprayed Concrete Lining Tunnelling Nozzleman nt for SCL works In the application of SCL 4 Specifications Plans and effect on safety and quality nos for key components of SCL Equipment y strength testing litly Control and Assurance tin the event of concrete fall-outs ure in the Workplace the Workplace the Workplace the Workplace the to 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	Have a sensi Striv Communicate openly and effectively. Show a willingness to learn new processes	EFNARC C2 course CSCS - Skilled Worker Card ISIS 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 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://enarc.org/information-enarcc2 Official EFNARC C2, training and certification plan: https://efnarc.org/s/ENC-C2-V11-20200128_ENG-9322.pdf

Role Family by Qualification Level	Roles	Skills	Knowledge	Attitude		Training	Experience	Comments
Operative / Craft (Level 2)	SCL Hand sprayer	Level 2 NVQ Diploma in Tunnelling Operations- pathway - Operating Hand-held spraying equipr or L2 NVQ Diploma in Specialist Concrete Occupati Operating Hand-held spraying equipment NVQ - Key practical skills and knowledge: - Conforming to General Health, Safety and Welfe - Conforming to Productive Working Practices in - Moving, Handling and Storing Resources in the V - Preparing and operating specialist tunnelling pla - Preparing austrate for sprayed concrete in the - Applying sprayed concrete in the workplace	ment ions (Construction) - Sprayed Concrete - ire in the Workplace the Workplace Workplace workplace to 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	sn	CSCS - Skilled Worker Card 1515 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 Diploms 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.	Many project Clients, Principal Contractors, Contractors, Employers and Designers within the sector have cultural development and/or behavioural based safety programmes	peing ge behaviours, when required npact on attitudes and behavion	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
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) Level 2 NVQ Diploma in Plant Operations (Construction) – Transporting Loads Plant (achievement of a Blue CPCS card follows achievement of NVQ)	Operatives at all levels should be engaged in any cultural development programmes and show willimgness to take part by consistently demonstrating good practice and reporting positive events and by observing, correcting and recording unsafe conditions	ioural value y health, sa y thealth, sa tive ways of trs and tear c questions e a positive	CPCS Card - Red or Blue Training and authorisation to operate specific concrete pump ISIS 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 and 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	Health, Safety and Wellbeing and All are expect Strue to continuously improve and time Actively collaborate with other Treffectively: share knowledge and experience, we processes, methodologies, equipment, etc.	CPCS Card - Red or Blue Training and authorisation to operate specific tunnel loco TSTS C&G 6151	Familiarity with specific tunnel loco 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. 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 locomotives, being operated. NOTE: Discussions regarding the increased use of MSVs (Multi Service Vehicles) in tunnelling are currently taking place with a view to adding MSVs as a plant category into the CPCS scheme
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 Cerebration of the full Technical Test) or Cerebrations - Singer/Signaller (Construction) (achievement of a Blue CPCS card follows achievement of NVQ)	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	l Communicate openly and Show a willingness to learn m	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 - Singer/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)			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.

Role Family by Qualification Level	Roles	Skills	Knowledge	Attitude		Training	Experience	Comments
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)	Many project Clients, Principal Contractors, Contractors,		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	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		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
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	consistently demonstrating good practice and reporting positive events and by observing, correcting and recording unsafe conditions	iired haviours	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	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		nhaviours, on attitud	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.	Many project Clients, Principal Contractors, Contractors and Employers 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 by observing, correcting and recording unsafe conditions	Health, Safety and Welbeing are core behavioural values. All are expected for: All and ownership find clay-to-day health, safety & wellbeing he to controlled in provide and find more effective ways of working he to controlled in provide and find more effective ways of working. Actively claiborate with chere team members and teams. Y; share knowledge and experience, stop and ask questions and challenge be seen members of the safe and experience, stop and ask questions and challenge be seen members and ask questions and challenge be seen members and experience.	CSCS - Gold Card TBM manufacturer specific training TSIS 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			ECS Installation or Maintenance Electrician Card 18th Edition IEE Regs Qualification ISTS C&G 6151	Hold ECS Registered Electrician Status + maintain record of ongoing CPD	Also required Project/Contract specific induction provided by the Principal Contractor
Work Supervision (Level 3)	Chargehand / Foreman Fitter	Hold relevant mechanical apprenticeship Level 3 NVQ Diploma in Occupation Level 2 Certificat	F aal Work Supervision (Construction)		Have a sense Strive ily and effectively: s	<u>SSSTS</u> <u>CSCS - Gold Card</u> <u>TSTS</u> <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	Hold relevant Electrotechnical apprentices ² Level 3 NVQ Diploma in Occupation Level 2 Certificat	•	Many project Clients, Principal Contractors, Contractors, Employers and Designers within the sector have cultural development and/or behavioural based safety programmes 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 shortfalls are identified, a consistent respectful, fair and just approach to	Communicate open	ECS Technician Card C+G 2391 Inspection and Testing Qualification SSTS TSTS 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	Hold relevant Tunnelling Level 3 NVQ Diploma in Occupation Level 2 Certificat	F nal Work Supervision (Construction) F			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)	dealing with all personnel is required		CPCS Card - Red or Blue TSTS C&G 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	Attitude		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)		en required , and behaviours	SMSTS CPCS Card - Red or Blue 1315 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 Inducti 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	ILM Level 3 Qualification in Leadership and Man Environment Sector - Award, Certificate or t Enviror NVQ Level 4 in Construction Level 6 NVQ Diploma in Construction Site Manage tunnelling activities	Diploma to include Supervision in Tunnelling + Site Supervision – Tunnelling rement (should include the optional unit - Planning	Many project Clients, Principal Contractors, Contractors, Employers and Designers within the sector have cultural development and/or behavioural based safety programmes	Velibeling are core behavioural values. ownership for day-to-day health, safety & wellbeing ove and find more effective ways of working with other team members and teams experience, stop and ask questions and challenge behaviours, wh penent, etc. that can have a positive dynamic impact on attitudes	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	Competence qualification or	+	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, recognize and reward good practice and behaviours. They should ensure and monitor that adequate resources and appropriate expectations, 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		SMSTS CSCS Supervisor, Manager, AQP or PQP Card 131S C&6 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	Competence qualification or e.g. Level 3 = A levels/BTEC; Level 4 = HNC; Level Degree, Level 7 =	5 = Foundation Degree/HND, Level 6 = Ordinary	consistently fair and just manner	Health, Safety and V re a sense of responsibility and Strive to combinously imp Actively colab borser fectively, share knowledge and processes, methodologies, equ	SSSTS for Site/Shift Engineers SMSTS for Section Engineer and above CSCS AQP or PQP Card ISTS C&C 6151	Appropriate level of professional registration with ICE or similar relevant professional body refessional body ** Record of ongoing CPD	Also required Project/Contract specific induction provided by the Principal Contractor
Technical, Supervisory and Management (Level 3 to Level 7)	Tunnel support staff - surveyors, quality engineers, geotechnical engineers, etc.	Competence qualification or e.g. Level 3 = A levels/BTEC; Level 4 = HNC; Level Degree, Level 7 =	5 = Foundation Degree/HND, Level 6 = Ordinary		Han ite openly and ef ess to learn new	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	Educational bar e.g. Level 5 = Foundation Degree/HND, Level 6 = (8 = 1	Ordinary Degree, Level 7 = Master's Degree, Level	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.	Show a willingeres	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.
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-

Title	Details	Link
ROGEP	Register of Ground Engineering Professionals	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-efnarc2
	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-vectiman-supervisur-or-managery
	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
	Plant Operator - Red Trained Operator Card	https://www.nocnjobcards.org/CPCS/cpcs-red-trained-operator-card/
CPCS	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.nocnjobcards.org/data/General_Downloads/CPCSSchemeBookletforTesters050620.pdf
SSP	Site Safety Plus - Principal Scheme Rules	https://www.citb.co.uk/documents/training and courses/site_safety_plus/scheme_rules/principal_scheme_rules.pdf
SSSTS	Site Safety Plus - Site Safety Plus - Site Supervisors' Safety Training Scheme	https://www.citb.co.uk/documents/training and courses/site safety plus/scheme_rules/appendix c site supervision safety training scheme_(sssts).pdf
SMSTS	Site Safety Plus - Site Managers' Safety Training Scheme	https://www.citb.co.uk/documents/training and courses/site safety plus/scheme rules/appendix g site management safety training scheme (smsts).pdf
TSTS	Site Safety Plus - Tunnelling Safety Training Scheme	https://www.citb.co.uk/documents/training and courses/site safety plus/scheme rules/appendix o - tunnelling safety training scheme january 2018.pdf
SEATS	Site Safety Plus - Site Environmental Training Scheme	https://www.citb.co.uk/documents/training and courses/site_safety_plus/scheme_rules/appendix%20%20-%20site%20environmental%20awareness%20training%20scheme%20(seats).pdf
TWCTC	Site Safety Plus - Temporary Works Co-ordinator Training Course	https://www.citb.co.uk/documents/funding/appendix temporary works co-ordinator training course twctc.pdf
TWSTC	Site Safety Plus - Temporary Works Supervisor Training Course	https://www.citb.co.uk/documents/training and courses/site safety plus/scheme rules/appendix m temporary works supervisor training course .pdf
City & Guilds 6151	City & Guilds 6151 - Tunnel Entry and Associated Emergency Procedures	https://www.cityandguilds.com/qualifications-and-apprenticeships/utilities/utilities/6151-tunnel-entry#tab=information
NOCN	N. C.	
INOCIN	National Open College Network	https://www.nocn.org.uk/
INOCIN	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
INOCIN	Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Sprayed Concrete Lining Tunnelling Nozzleman	
NOCN	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
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NOCN	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	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
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	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	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) - Tunnelling Machine Operator
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) - Shaft Miner	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) - Shaft Miner
	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) - Shaft Miner Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Hand Miner	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) - Pipelacking/Micro-tunnelling Operative NOCN Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Special Removal Conveyor Operative NOCN Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Tunnelling Awards (Conveyor Operative) 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) - Machine Tunnelling Operative NOCN Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Hand Miner
	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) - Shaft Miner Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Shaft Miner 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	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) - Pinnelling Operative NOCN Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Pipelacking/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) - Tunnell 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) - Shaft Miner NOCN Level 2 NVQ Diploma in Tunnelling Operations (Construction) - Hand Miner NOCN Construction - Hand Miner NOCN Level 6 NVQ Diploma in Tunnelling Operations (Construction) - Hand Miner
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Attitudes & Behaviours

Behavioural, Leadership and Management Courses

ILM Level 2 Diploma in Team Leading	https://www.i-l-m.com/-/media/ilm-website/sharepoint-documents/ published-documents/level-2-diploma-in-team-leading-(combined-qualification)-ilm-q-card,-d-,pdf.ashx
ILM Level 3 Diploma for Managers	https://www.i-l-m.com/-/media/ilm-website/sharepoint-documents/ published-documents/level-3-diploma-for-managers-mapping-to-team-leader-supervisor-apprenticeship-behaviours,-d-,pdf.ashx
ILM Level 4 Qualifications in Leadership and Management	https://www.i-l-m.com/-/media/ilm-website/sharepoint-documents/_published-documents/level-4-qualifications-in-leadership-and-management-ilm-q-card,-dpdf.ashx
ILM Level 5 Diploma for Leaders and Managers	https://www.i-l-m.com/-/media/ilm-website/sharepoint-documents/ published-documents/level-5-diploma-for-leaders-and-managers-mapping-to-operations-departmental-manager-apprenticeship-behaviours,-d-,pdf.ashx
ILM Level 6 Award and Diploma in Management	https://www.i-l-m.com/-/media/ilm-website/sharepoint-documents/ published-documents/level-6-award-and-diploma-in-management,-d-,pdf.ashx
ILM Level 7 Qualifications in Leadership and Management	https://www.i-l-m.com/-/media/ilm-website/sharepoint-documents/ published-documents/ilm I7qlm v30517,-d-,pdf.ashx
ILM Level 7 Certificate and Diploma in Executive Coaching and Mentoring	https://www.i-l-m.com/-/media/ilm-website/sharepoint-documents/ published-documents/level-7-certificate-and-diploma-in-executive-coaching-and-mentoring-ilm-q-cardd-,pdf.ashx

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 and monitor that adequate resources and appropriate expectations, 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.

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.

TTSG Competence Subgroup in partnership with Tunnelskills

Gerry Keigher Tunnelcraft

Mark Thompson TfL

Mónica Lobo Tideway TTSG subgroup co-chair

Neil Hancox ALIGN jv

Paul Gallagher Joseph Gallagher Roger Bridge Balfour Beatty

Steve Hails Tideway

Tom Lane Morgan Sindall TTSG subgroup co-chair

Tomislav Rogan EDVIRT

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If you have any queries or comments on the matrix please email tts@britishtunnelling.com or contact TunnelSkills via chairman@tunnelskills.org

or fto@tunnelskills.org