



12249 Science Drive, Suite 135, Orlando, FL 32826

Tel: +1 407 734 5377 Mobile: +1 606 791 7532 e-mail: dennis.mayo@5dt.com web: www.5DT.com

April 15, 2026

To Whom It May Concern
Procurement Department
Southeast New Mexico College (SENMCM)
1500 University Drive, Carlsbad, NM 88220

Dear Sir/Madam

Sole Source Statement

1.0 Our company has proposed a Range of Training Solutions to SENMC. These include:

- a) Visualizers
- b) E-Learning
- c) Walk Around Inspection (WAI) Trainers
- d) Pre-Simulators
- e) Training Simulators
- f) Virtual Reality (VR) Applications

2.0 The following range of Training Solutions has been proposed:

- a) Virtual Reality (VR) Application: Underground Mine Hazard Identification
- b) E-Learning: Underground Mine Hazard Identification
- c) Virtual Reality (VR) Application: Radiological Control Technician (RCT)
- d) E-Learning: Radiological Control Technician (RCT)

3.0 Now, to the best of our knowledge, we would like to declare as follows:

- A. 5DT Inc is the sole source provider for new software for the 5DT SimBASE Virtual Reality (VR) / Mixed Reality (MR) system, such as the recently approved RCT and VR Mine Hazard Identification software. The software must be developed by 5DT to ensure seamless integration with the proprietary 5DT SimBASE VR/MR hardware already installed at SENMC.
- B. This new software is required to run on and be maintained within the 5DT Training Manager ecosystem, which is a proprietary 5DT database solution combining the results of all training solutions into a single, centralized database for curriculum management and operator benchmarking.

- C. Only 5DT possesses the specialized, well-established, proprietary Software Development Toolkit (SDK) and deep knowledge base to create and integrate new applications into this established, full stack 5DT training system.
- D. 5DT Inc is the only company, in the United States or Internationally, that offers a fully integrated Range of Training Solutions as shown in 1.0 above. This is referred to as 5DT's Training Plan. 5DT Inc also offers a 'Training Manager' package that combines the results of all the training solutions into a single database so that all elements of the training process may be managed.
- E. 5DT Inc is the only company, in the United States or Internationally, that offers training solutions for all the applications as shown in 2.0 above. We offer training solutions for mining, construction and transport. The interface of our different training solutions for different applications is also the same, so that instructors do not have to learn different interfaces to operate different training solutions.
- F. 5DT Inc is the only company that can supply 1.0 and 2.0 above on commercial terms, with short-term delivery periods and without having to develop the simulators from the ground up.
- G. 5DT has its own, well established, software development toolkit (SDK) that enables it to develop a wide range of simulators and applications for vehicles/machines as in 2.0 above. Other companies must rely on games SDKs that have to be converted and adapted to develop non-games simulators.

Please do not hesitate to contact the undersigned if you need more information.

Yours sincerely

Dennis Mayo
Country Manager

Quotation: Mine Hazard Identification System

1.0 Quote Details

To:	Southeast New Mexico College (SENMIC)	From:	Dennis Mayo
Contact Person:	Chris Spaulding	Date:	March 31, 2026
Tel/Mobile:	(520) 270-8721	Quote Number:	5DT_USA_SENMC_2026-01_A
E-Mail:	cspaulding@senmc.edu	Pages:	1

2.0 Description

2.1 System Hardware

The system will make use of the existing SimBASE VR stations at SENMC, as shown in the following image.





Figure 1 – SimBASE VR Station The user views the virtual world with a virtual reality (VR) head mounted display (HMD). The user navigates in the virtual world with two VR space controllers (wands).

The SimBASE VR hardware consists of the following elements:

- a. Frame
- b. 55" Screen
- c. Personal Computer
- d. HTC Vive Virtual Reality (VR) Head Mounted Display (HMD)
- e. Two (2) HTC Vive Space Controllers

2.2 System Software

The system software will include the following elements:

- a. Underground mine section with a wide array of hazards that can be configured (e.g. switched on or off) before a training scenario by the instructor. *Typical* hazards are described in Appendix A. These are hazards as identified by the Mine Safety and Health Administration (MSHA) of the United States, specifically for underground mines, which includes salt mines.
- b. Trainees will follow an inspection path (walk-through) through the section. The trainees may have to be guided on this path, for example by using arrows on the ground.
- c. There will be a 'Learn Mode' and an 'Assessment Mode'.
- d. In the Learn Mode all the hazards will be marked with an orange "?" icon. When clicking on such an icon in the Learn Mode, detail information about the hazard will be supplied, including the MSHA identification. Note that the trainee will have to *take an action*, i.e. click on the icon, before the info is revealed/displayed.
- e. In the Assessment Mode the hazards will be unmarked. The trainee will have to click in the close proximity of where he/she believes the hazard to exist. After clicking on a hazard the trainee will be prompted to select the appropriate hazard from a drop-down list. If a hazard is identified correctly, a green  icon will be displayed. If a hazard is identified incorrectly, a red  icon will be displayed. Indicating a hazard where there is not a hazard, will be viewed as an incorrect identification.
- f. Once a hazard has been identified, it will also be expected of the trainee to indicate what corrective action needs to be taken to remove and/or alleviate the hazard, for example:
 - *Report and Proceed with Caution*
 - *Fix Immediately*
 - *Evacuate Immediately and Report*
- g. The trainee will also be subjected to emergency events, for example when a hazardous gas (such as methane) is detected. In this case the trainee will have to select the correct action to be taken. The location of such events will be pre-configured by the instructor.
- h. The number of *unreported*, *correctly reported* and *incorrectly reported* hazards will be tracked by the system so that a report could be generated for the trainee at the end of an assessment session.
- i. Training scenarios will typically not exceed 15 minutes.
- j. The system will have a 'Group' mode where teams of typically 3 trainees will be able to navigate through the virtual environment and identify hazards. One person will navigate by means of the space controllers. The same person will also log the hazards, as identified by the group. The details of all the group members will be logged by the system.
- j. An E-Learning package, for theoretical training, will be offered as well.

3.0 Quote

Item	Description	Delivery [After Receipt of Order]	Qty	Unit Price [USD]	Price [USD]
3.1	Virtual Reality Application: Underground Mining Hazard Identification (Up to 10 Concurrent User Licenses)	6-9 Months	1	80,000	80,000
3.2	E-Learning: Underground Mining Hazard Identification (Up to 10 Concurrent User Licenses)	6-9 Months	1	30,000	30,000
				Sub-Total	110,000

3.3	Support Package: 10% of Total Contract Amount per Annum	--	3	11,000	33,000
				Total	143,000

4.0 Notes

No.	Description
4.1	This quote is valid for 90 days after which it may be renegotiated.
4.2	This quote does not include any taxes or duties.
4.3	Payment Terms: a. 40% Upfront Mobilisation Fee b. 50% After Successful Factory Acceptance Test (FAT) and Before Shipping c. 10% After Successful Installation

Please do not hesitate to contact the undersigned if you need more information.

Yours sincerely

Dennis Mayo
Country Manager

Appendix A: MSHA Underground Mining Hazards

This document describes several regulations from MSHA. All of the regulations are from the Underground Metal/Non-metal section or part 57, which would govern an underground salt mine.

We went through these and selected *typical* ones that we thought would best fit a supervisor pre-shift walk around inspection of a mine.

Part 57 is underground metal/non-metal (The part number is the first 2 digits of the standard #) **57.3200**

57.3200 Correction of hazardous conditions.

Ground conditions that create a hazard to persons shall be taken down or supported before other work or travel is permitted in the affected area. Until corrective work is completed, the area shall be posted with a warning against entry and, when left unattended, a barrier shall be installed to impede unauthorized entry.

57.3430 Activity between machinery or equipment and the highwall or bank.

Persons shall not work or travel between machinery or equipment and the highwall or bank where the machinery or equipment may hinder escape from falls or slides of the highwall or bank. Travel is permitted when necessary for persons to dismount.

57.4101 Warning signs.

Readily visible signs prohibiting smoking and open flames shall be posted where a fire or explosion hazard exists.

57.4402 Safety can use.

Small quantities of flammable liquids drawn from storage shall be kept in safety cans labeled to indicate the contents.

57.4104 Combustible waste.

(a) Waste materials, including liquids, shall not accumulate in quantities that could create a fire hazard.

(b) Waste or rags containing flammable or combustible liquids that could create a fire hazard shall be placed in the following containers until disposed of properly:

(1) Underground—covered metal containers.

(2) On the surface—covered metal containers or equivalent containers with flame containment characteristics.

57.4600 Extinguishing equipment.

(a) When welding, cutting, soldering, thawing, or bending

(1) With an electric arc or with an open flame where an electrically conductive extinguishing agent could create an electrical hazard, a multipurpose dry-chemical fire extinguisher or other extinguisher with at least a 2-A:10-B:C rating shall be at the worksite

(2) With an open flame in an area where no electrical hazard exists, a multipurpose dry-chemical fire extinguisher or equivalent fire extinguishing equipment for the class of fire hazard present shall be at the worksite.

57.4602 Gauges and regulators.

Gauges and regulators used with oxygen or acetylene cylinders shall be kept clean and free of oil and grease

57.9100 Traffic control.

To provide for the safe movement of self-propelled mobile equipment—

(a) Rules governing speed, right-of-way, direction of movement, and the use of headlights to assure appropriate visibility, shall be established and followed at each mine; and

(b) Signs or signals that warn of hazardous conditions shall be placed at appropriate locations at each mine.

57.9202 Loading and hauling large rocks.

Large rocks shall be broken before loading if they could endanger persons or affect the stability of mobile equipment. Mobile equipment used for haulage of mined material shall be loaded to minimize spillage where a hazard to persons could be created.

57.9301 Dump site restraints.

Berms, bumper blocks, safety hooks, or similar impeding devices shall be provided at dumping locations where there is a hazard of overtravel or overturning.

57.9304 Unstable ground.

(a) Dumping locations shall be visually inspected prior to work commencing and as ground conditions warrant.

(b) Where there is evidence that the ground at a dumping location may fail to support the mobile equipment, loads shall be dumped a safe distance back from the edge of the unstable area of the bank.

57.9306 Warning devices for restricted clearances.

Where restricted clearance creates a hazard to persons on mobile equipment, warning devices shall be installed in advance of the restricted area and the restricted area shall be conspicuously marked.

57.9313 Roadway maintenance.

Water, debris, or spilled material on roadways which creates hazards to the operation of mobile equipment shall be removed.

57.11001 Safe access.

Safe means of access shall be provided and maintained to all working places.

57.11003 Construction and maintenance of ladders.

Ladders shall be of substantial construction and maintained in good condition.

57.11013 Conveyor crossovers.

Crossovers shall be provided where it is necessary to cross conveyors.

§ 57.11014 Crossing moving conveyors.

Moving conveyors shall be crossed only at designated crossover points

57.11051 Escape routes.

Escape routes shall be—

(a) Inspected at regular intervals and maintained in safe, travelable condition; and

(b) Marked with conspicuous and easily read direction signs that clearly indicate the ways of escape.

57.11058 Check-in, check-out system.

Each operator of an underground mine shall establish a check-in and check-out system which shall provide an accurate record of persons in the mine. These records shall be kept on the surface in a place chosen to minimize the danger of destruction by fire or other hazards. Every person underground shall carry a positive means of being identified.

57.12018 Identification of power switches.

Principal power switches shall be labeled to show which units they control, unless identification can be made readily by location.

57.12020 Protection of persons at switchgear.

Dry wooden platforms, insulating mats, or other electrically-nonconductive material shall be kept in place at all switchboards and power-control switches where shock hazards exist. However, metal plates on which a person normally would stand and which are kept at the same potential as the grounded, metal, non-current-carrying parts of the power switches to be operated may be used

57.12021 Danger signs.

Suitable danger signs shall be posted at all major electrical installations.

57.12032 Inspection and cover plates.

Inspection and cover plates on electrical equipment and junction boxes shall be kept in place at all times except during testing or repairs.

57.12085 Transformer stations.

Transformer stations shall be enclosed to prevent persons from unintentionally or inadvertently contacting energized parts.

57.12088 Splicing trailing cables.

No splice, except a vulcanized splice or its equivalent, shall be made in a trailing cable within 25 feet of the machine unless the machine is equipped with a cable reel or other power feed cable payout-retrieval system. However, a temporary splice may be made to move the equipment for repair.

57.14107 Moving machine parts.

(a) Moving machine parts shall be guarded to protect persons from contacting gears, sprockets, chains, drive, head, tail, and takeup pulleys, flywheels, coupling, shafts, fan blades; and similar moving parts that can cause injury.

(b) Guards shall not be required where the exposed moving parts are at least seven feet away from walking or working surfaces.

57.14110 Flying or falling materials.

In areas where flying or falling materials generated from the operation of screens, crushers, or conveyors present a hazard, guards, shields, or other devices that provide protection against such flying or falling materials shall be provided to protect persons.

57.14115 Stationary grinding machines.

Stationary grinding machines, other than special bit grinders, shall be equipped with—

(a) Peripheral hoods capable of withstanding the force of a bursting wheel and enclosing not less than 270°—of the periphery of the wheel;

(b) Adjustable tool rests set so that the distance between the grinding surface of the wheel and the tool rest is not greater than 1/8 inch; and

(c) A safety washer on each side of the wheel.

57.14207 Parking procedures for unattended equipment.

Mobile equipment shall not be left unattended unless the controls are placed in the park position and the parking brake, if provided, is set. When parked on a grade, the wheels or tracks of mobile equipment shall be either chocked or turned into a bank or rib.

57.15031 Location of self-rescue devices.

(a) Except as provided in paragraph (b) and (c) of this section, self-rescue devices meeting the requirements of standard 57.15030 shall be worn or carried by all persons underground.

(b) Where the wearing or carrying of self-rescue devices meeting the requirements of standard 57.15030 is hazardous to a person, such self-rescue devices shall be located at a distance no greater than 25 feet from such person.

(c) Where a person works on or around mobile equipment, self-rescue devices may be placed in a readily accessible location on such equipment.

57.16001 Stacking and storage of materials.

Supplies shall not be stacked or stored in a manner which creates tripping or fall-of-material hazard

57.17001 Illumination of surface working areas.

Illumination sufficient to provide safe working conditions shall be provided in and on all surface structures, paths, walkways, stairways, switch panels, loading and dumping sites, and working areas.

Appendix B: Examples of Citations Issued by MSHA

This document shows actual citations given to mines after a fatality. The fatality headings are in italics and the actual regulation cited is in Bold.

*A 104(a) citation was issued to Moran Mining USA Inc for a violation of 30 CFR **57.14105**.*

A fatal accident occurred on November 13, 2023, when a miner died when he became entangled in a rotating drill steel while changing the steel. The contractor did not ensure that the power was off, and the equipment was blocked against hazardous motion.

*A 104(a) citation was issued to Lexington Quarry Company for a violation of 30 CFR **57.14100(b)**.*

Defects affecting the safe operation of the Green 2002 Ford F150 Pickup Truck, VIN # C6530, in use in the active underground areas of the mine were not corrected in a timely manner to prevent the creation of hazards to persons. The truck's service brake is not operational at the time of inspection. When tested with the Engine both running and not running, the service brake pedal will go directly to the floor with little to no resistance when pressure is applied and has no stopping capabilities. Also, the truck's 4-Wheel Drive Feature is not working when tested.

*A 104(a) citation was issued to Nyrstar Tennessee Mines, Strawberry Plains LLC for a violation of 30 CFR **57.3200**.*

On July 12, 2025, a LHD loader operator died when the roof collapsed onto the cab of the LHD loader he was operating. The mine operator did not take down or support the hazardous ground conditions before work and travel occurred in the affected area.

*A 104(a) citation was issued to Cargill Deicing Technology for a violation of 30 CFR **57.9100(b)**.*

On November 27, 2024, an electrician with ten years of mining experience died after being struck by an underground Load Haul Dump (LHD) loader. The mine operator did not place signs or signals that warn of hazardous conditions at appropriate locations.

*A 104(d)(1) citation was issued to Nevada Gold Mines, LLC for a violation of **57.18002(a)**.*

A fatal accident occurred at the Cortez District-Underground mine on February 14, 2022, when a Getman A64 Lube/Fuel truck, company number TRL0003, fell approximately 60 feet into the open 430 stope. A berm to prevent the lube truck from falling into the open stope had not been installed in accordance with the mine operator's standard operating procedure. An adequate examination of this working place would have noted this obvious condition that adversely affected the safety of the miners. This condition existed for approximately two months and management traveled through the area daily looking for defects that could adversely affect the safety or health of the miners. Prior to the accident, mine management decided to stop installing berms near open stopes. The mine operator engaged in aggravated conduct constituting more than ordinary negligence by being aware of the unsafe condition and not promptly initiating appropriate action to correct it. This violation is an unwarrantable failure to comply with a mandatory safety standard.

Quotation: Radiological Control Technician (RCT) Training System

1.0 Quote Details

To:	Southeast New Mexico College (SENMCM)	From:	Dennis Mayo
Contact Person:	Chris Spaulding	Date:	March 31, 2026
Tel/Mobile:	(520) 270-8721	Quote Number:	5DT_USA_SENMC_2026-02_A
E-Mail:	cspaulding@senmc.edu	Pages:	1

2.0 Description

2.1 System Hardware

The system will make use of the existing SimBASE VR stations at SENMC, as shown in the following image.



Figure 1 – SimBASE VR Station The user views the virtual world with a virtual reality (VR) head mounted display (HMD). The user navigates in the virtual world and interact with the virtual world with two VR space controllers (wands).

The SimBASE VR hardware consists of the following elements:

- a. Frame
- b. 55" Screen
- c. Personal Computer
- d. HTC Vive Virtual Reality (VR) Head Mounted Display (HMD)
- e. Two (2) HTC Vive Space Controllers

2.2 System Software

The system software will include the following elements:

- a. Two virtual worlds:
 - Interior (lab) environment
 - Exterior (outside) environment
- b. The interior environment will include a typical lab with benches and an access door. It will also include a 'PPE Table' and an 'Instrument Table'. Avatars of humans and virtual objects will be placed inside the virtual environment.
- c. The trainee will navigate the virtual world and interact with virtual objects by using the space controllers. Interaction will include, inter alia:
 - Pointing at and selecting items
 - Grabbing, ungrabbing, rotating and moving items
- d. The trainee will be able to execute training scenarios, typically based on the videos supplied by SENMC, that is, RCT_1.mov up to RCT_6.mov.
- e. Typical (virtual) PPE will include, inter alia:
 - Protective (Tyvek) Suit (*good suit and torn suit*)
 - Hood
 - Hard Hat and/or Safety Glasses
 - Glove Liners
 - Gloves
 - Tape (pre-cut into strips that are *too short, correct length and too long*)
 - Booties
 - Personal Dosimeter
 - Digital Dosimeter
- f. The following Training Scenarios will be presented:

No.	Scenario Title	Scenario Description
2.2.1	Identification of Personal Protective Equipment (PPE)	There will be a 'PPE Table' inside the virtual environment. The trainee will be able to click on a specific PPE item and information of the item will be displayed.
2.2.2	Inspection of PPE	The trainee will be able to select a specific piece of PPE and inspect it to determine whether it is good or bad, for example, selecting a protective suit and checking whether there are tears in the suit.
2.2.3	Identification of Instrumentation	There will be a 'Instrumentation Table' inside the virtual environment. The trainee will be able to click on a specific instrument and information of the item will be displayed.
2.2.4	Donning (putting on) the PPE	The trainee will have to select PPE from the 'PPE Table'. As soon as an item is selected, the trainee will immediately 'wear' it. If the selected item has a specific donning process, an animation (or video) of the donning process will be available to be played. If PPE is selected in the incorrect order, the system will notify the trainee of the implication/s and an error will be logged.
2.2.5	Doffing (taking off) the PPE	The trainee will have to select 'take off' virtual PPE. As soon as an item is selected, it will immediately be taken off. If the selected item has a specific doffing process, an animation (or video) of the doffing process will be available to be played. If PPE is taken off in the incorrect order, the system will notify the trainee of the implication/s and an error will be logged.
2.2.6	Frisking Another Person	The trainee will be presented with an avatar (graphical representation) of a person to be frisked. The trainee will then be able to frisk the avatar with a virtual instrument.

		It will be possible for the instructor to configure the virtual avatar to have certain high radiation areas on its body. The trainee will then have to determine, by means of frisking, where these areas are. The system will track whether the correct order of frisking was observed. Error/s will be logged if the incorrect order was observed. The system will also track whether all the frisking areas were scanned. Error/s will be logged for areas that were not scanned. The duration of the frisking process will be logged.
2.2.7	Self-Frisking	Same as above, except that the trainee will have to frisk him-/herself. There will be a 3 rd person (outside) view to assist the trainee to 'see' how the frisking is done, for example a virtual 'mirror' or a 3 rd person view.
2.2.8	Barricading and Signposting Areas/Objects that Needs to be Scanned	The trainee will be taught how to barricade and signpost areas or objects that need to be scanned or swabbed. The scenario will start with the trainee already wearing the required PPE.
2.2.9	Scanning (Frisking) Objects Inside a Room	In this scenario the trainee will be taught how to scan (frisk) objects inside a room. The scenario will start with the trainee already wearing the required PPE. It will be possible for the instructor to configure (or select) certain areas of high radiation.
2.2.10	Scanning (Frisking) Objects Outside	Same as above, but in an exterior environment.
2.2.11	Using Objects (like steel cabinets) to Block Radiation while Scanning	This scenario will teach the trainee how to use objects like steel cabinets or brick walls to block or reduce radiation exposure while scanning or swabbing objects. The scenario will start with the trainee already wearing the required PPE.
2.2.12	Swabbing Objects	This scenario will teach the trainee how to correctly swab objects and how to document the swabbing process. The scenario will start with the trainee already wearing the required PPE. It will be possible for the instructor to configure (or select) certain areas of high radiation.
2.2.13	Management of Injured Persons	This scenario will teach the trainee the following: a. Assess whether the injury is life threatening or not. Determine if the person is ambulatory or non-responsive. b. Manage emergency personnel. c. Accompany injured person. d. Assess radiological status of injured person immediately if injury is not life-threatening, or after first aid and/or treatment if injury is life threatening.

Table 1 – Training Scenarios for the RCT Training System

f. An E-Learning package, for theoretical training, will be offered as well.

3.0 Quote

Item	Description	Delivery [After Receipt of Order]	Qty	Unit Price [USD]	Price [USD]
3.1	Virtual Reality Application: Radiological Control Technician (RCT) (Up to 10 Concurrent User Licenses)	6-9 Months	1	115,000	115,000
3.2	E-Learning: Radiological Control Technician (RCT) (Up to 10 Concurrent User Licenses)	6-9 Months	1	30,000	30,000
				Sub-Total	145,000
3.3	Support Package: 10% of Total Contract Amount per Annum	--	3	14,500	43,500
				Total	188,500

4.0 Notes

No.	Description
4.1	This quote is valid for 90 days after which it may be renegotiated.
4.2	This quote does not include any taxes or duties.
4.3	Payment Terms: a. 40% Upfront Mobilisation Fee b. 50% After Successful Factory Acceptance Test (FAT) and Before Shipping c. 10% After Successful Installation

Please do not hesitate to contact the undersigned if you need more information.

Yours sincerely

Dennis Mayo
Country Manager