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**ABBE**

# CertDITL314

Certificate in Domestic Infrared Thermography Operators  
(Level 3)

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**Question: 1290**

In terms of moisture transport, what is the significance of diffusion in a building?

- A. It prevents air infiltration.
- B. It allows moisture to move through materials.
- C. It enhances thermal bridging.
- D. It improves indoor air quality.

Answer: B

Explanation: Diffusion is significant as it allows moisture to move through building materials, which can affect humidity levels and potentially lead to condensation issues if not managed properly.

**Question: 1291**

You have completed an infrared thermography inspection. What is the best way to ensure you meet client expectations in your report?

- A. Provide a generic report template
- B. Include detailed findings and recommendations
- C. Limit the report to only significant issues
- D. Use technical jargon to impress the client

Answer: B

Explanation: A detailed report that includes findings and recommendations demonstrates professionalism and ensures that the client understands the issues and solutions.

**Question: 1292**

You produce a written record for a 2026 survey incorporating LiDAR point cloud coregistration. Which details must be logged?

- A. Riegl VZ-400i scan positions with GNSS RTK base station ID UKOS-2026-112
- B. Point cloud density 120 pts/m<sup>2</sup> at 5 m range, RMSE alignment 6 mm to CAD model
- C. Fusion software version Metshape 2026.3 with ICP convergence threshold 1 mm
- D. Export format LAZ 1.4 with CRS EPSG:7405 compound height datum ODN

Answer: A,B

Explanation: Scanner positions and alignment accuracy are mandatory for repeatability, software version

aids reproducibility, and LAZ export is standard but not specifically required in the written activity record.

**Question: 1293**

You are conducting a thermographic survey in a residential area with high humidity levels. What is the primary concern regarding the survey results?

- A. Increased risk of equipment malfunction
- B. Increased need for safety precautions
- C. Longer duration of the survey
- D. Reduced thermal contrast between surfaces

Answer: D

Explanation: High humidity can reduce thermal contrast between surfaces, making it difficult to identify temperature variations and potentially obscuring problem areas.

**Question: 1294**

How can you effectively manage client expectations regarding the outcomes of a thermography inspection?

- A. Provide vague information to avoid miscommunication
- B. Clearly explain what thermography can and cannot detect
- C. Focus only on positive outcomes
- D. Avoid discussing potential limitations

Answer: B

Explanation: Clearly explaining what thermography can and cannot detect helps manage client expectations and fosters trust in your expertise.

**Question: 1295**

A homeowner receives your report identifying 11 m<sup>2</sup> of missing cavity insulation and demands to know “why the builder’s surveyor missed it”. Select all clarification responses.

- A. Explain that visual borescope surveys sample <0.5% of wall area versus your 100% external scan
- B. Offer to overlay your thermal orthomosaic (generated in Pix4Dmapper 2026) onto their floor plans
- C. State that builder surveys often use spot checks compliant with BRE RD 310:2019 minimum requirements

D. Blame the builder's incompetence in writing

Answer: A,B,C

Explanation: Statistical sampling explanation educates without confrontation. Orthomosaic overlay demonstrates coverage. BRE reference contextualises industry norms. Direct blame escalates conflict.

**Question: 1296**

Before starting any thermographic inspection, what should you check regarding your equipment?

- A. That it is the same model used by colleagues
- B. That it has the latest software updates
- C. That it is the most expensive model available
- D. That it is clean and functioning properly

Answer: D

Explanation: Ensuring that the equipment is clean and functioning properly is essential for obtaining accurate thermographic readings and maintaining safety.

**Question: 1297**

You image a 2023 roof with 300 mm spray foam. A 6.2 °C warmer lattice pattern appears. Select all false positive causes.

- A. 2026 intumescent fire mesh embedded at 400 mm centres activating at 80 °C
- B. Foam applied over 2023 spider web debris with emissivity 0.99
- C. Rafter heat conduction from 45 °C attic MVHR unit
- D. Off-gassing of HFO-1234ze creating micro-bubbles with higher conductivity

Answer: B,C

Explanation: Debris emissivity and rafter conduction create apparent warming. Intumescent mesh activates far above survey temperatures. Off-gassing affects insulation, not surface pattern.

**Question: 1298**

During a project, you discover a potential safety issue. What should you do?

- A. Keep it to yourself to avoid conflict
- B. Report the issue to the appropriate authority immediately
- C. Discuss it casually with colleagues without formal reporting

D. Wait until the project is completed to mention it

Answer: B

Explanation: Reporting safety issues promptly is crucial for maintaining a safe working environment and adhering to regulations.

**Question: 1299**

When encountering an anomaly in thermal readings, what is the most effective way to validate your findings?

- A. Conduct additional measurements in the same area
- B. Seek a second opinion from a colleague
- C. Compare with previous surveys
- D. Document the anomaly and move on

Answer: A

Explanation: Conducting additional measurements in the same area is the most effective way to validate findings and confirm whether the anomaly is consistent or an error.

**Question: 1300**

Surveying a modular MMC home with aerogel insulation ( $\lambda=0.014 \text{ W/m}\cdot\text{K}$ ), you note  $1.8 \text{ }^\circ\text{C}$  cold spot at panel joints under  $+22 \text{ }^\circ\text{C}$  internal,  $-2 \text{ }^\circ\text{C}$  external, no wind. Client expects “no anomalies”. Which actions align client expectations with Level 3 findings? (Below Options should be first shuffled and then made in Alphabetic Order, No blank line between below Options)

- A. Calculate joint  $\Psi$ -value using ISO 10211 3D FEA model ( $h_{\text{eff}}=25 \text{ W/m}^2\text{K}$  convection), report  $\Psi=0.019 \text{ W/m}\cdot\text{K}$  vs client target 0.00
- B. Conduct pre-survey expectations workshop; record “no anomalies” as marketing claim, not technical specification
- C. Offer time-lapse thermography (FLIR A700, 1 frame/300 s for 24 h) to differentiate transient panel settling vs permanent gap
- D. Suppress cold spot in report; annotate as “within aerogel variability  $\pm 2 \text{ }^\circ\text{C}$ ”

Answer: A,B,C

Explanation: Calculating joint  $\Psi$ -value using ISO 10211 3D FEA model ( $h_{\text{eff}}=25 \text{ W/m}^2\text{K}$  convection), report  $\Psi=0.019 \text{ W/m}\cdot\text{K}$  vs client target 0.00 quantifies deviation; conducting pre-survey expectations workshop; record “no anomalies” as marketing claim, not technical specification prevents miscommunication; offering time-lapse thermography (FLIR A700, 1 frame/300 s for 24 h) to

differentiate transient panel settling vs permanent gap adds diagnostic depth; suppress cold spot in report; annotate as “within aerogel variability  $\pm 2\text{ }^{\circ}\text{C}$ ” misrepresents data.

**Question: 1301**

While producing a written record for a 2026 survey using NEC Avio R550Pro (30 Hz, microbolometer 640×480), you note intermittent cold spots on an internal wall. Which log entries are required?

- A. Camera settings: NFOV lens, focus distance 1.2 m, emissivity 0.95, RTC 9.3°C
- B. HVAC register: HRV unit in bypass mode, CO<sub>2</sub> level 612 ppm, airflow 0.28 m<sup>3</sup>/s
- C. Observation: “Cold spots correlate with stud positions at 400 mm centres per SIPs layout”
- D. Action: “Scheduled follow-up survey at 04:00 to eliminate occupant heat influence”

Answer: A,B,D

Explanation: Camera settings ensure repeatability, HVAC data rules out artificial cooling, and the follow-up action documents scope extension; the stud correlation is interpretive and belongs in the report, not the raw activity log.

**Question: 1302**

A team member is upset about a recent project decision. What should you do?

- A. Avoid them until they calm down
- B. Engage them in a discussion to understand their concerns
- C. Dismiss their feelings as unimportant
- D. Agree with them without understanding the issue

Answer: B

Explanation: Engaging in discussion helps to address the team member's concerns and fosters a supportive work environment.

**Question: 1303**

An operator scans a 150 mm thick brick wall ( $k=0.72\text{ W/mK}$ ,  $\rho=1800\text{ kg/m}^3$ ,  $c=840\text{ J/kgK}$ ) with a Testo 872 camera ( $\text{NETD}<40\text{ mK}$ ) 2 hours after sunset. Internal air 22°C, external -3°C, wind 3 m/s ( $h\approx 18\text{ W/m}^2\text{K}$ ). Select all factors that must be quantified to apply Fourier's Law for heat flux.

- A. Exact thickness measured with ultrasonic gauge to  $\pm 0.5\text{ mm}$  precision
- B. Surface emissivity of aged brick ( $\epsilon\approx 0.93$ ) and its temperature dependence between -3°C and 22°C
- C. Thermal effusivity  $\sqrt{k\rho c}=\sqrt{(0.72\times 1800\times 840)}\approx 1090\text{ J/m}^2\text{Ks}^{0.5}$  to assess transient delay
- D. U-value calculated as  $1/(1/h + L/k + 1/h_{\text{int}})$  to cross-check  $q=-k\Delta T/L$

Answer: A,D

Explanation: Fourier's Law  $q = -k\Delta T/L$  requires accurate thickness  $L$  and temperature gradient  $\Delta T$ ; U-value method validates steady-state flux. Emissivity affects measured surface temperature but not flux once temperatures known. Effusivity governs transient response; after 2 hours brick reaches quasi-steady state (time constant  $\tau = L^2/\alpha \approx 5.5$  hours).

**Question: 1304**

What should you do if you encounter a situation where the infrared camera is overheating during a survey?

- A. Allow the camera to cool and continue
- B. Use a fan to cool the camera
- C. Stop the survey and let the camera cool down
- D. Switch to a backup camera immediately

Answer: C

Explanation: If the infrared camera is overheating, it is best to stop the survey and allow the camera to cool down to prevent damage to the equipment.

**Question: 1305**

What should be included in the documentation of an inspection to enhance safety procedures?

- A. Only the findings of the inspection
- B. Details of any safety concerns encountered
- C. A summary of the client's feedback
- D. The technician's personal observations

Answer: B

Explanation: Including details of any safety concerns encountered in the documentation helps improve safety procedures for future inspections.

**Question: 1306**

During external survey of a 2018 Passivhaus, you detect a 4.2 K cold bridge at eaves. Select all actions to minimise error sources per ISO 18434-1:2023.

- A. Measure wind speed  $\leq 1.5$  m/s using anemometer, record solar loading 0 W/m<sup>2</sup>

- B. Repeat scan after 180° camera rotation to confirm non-reflected artefact
- C. Adjust distance-to-spot ratio to 120:1 and reposition 3m further back
- D. Switch to 14° telephoto lens and increase integration time to 8 ms

Answer: A,B

Explanation: Wind and solar data are mandatory; 180° rotation eliminates reflections. D:S ratio and lens change are unnecessary at 3m.

**Question: 1307**

While inspecting a commercial building, you encounter a section that is poorly lit. What is your best option?

- A. Wait for natural light to improve
- B. Proceed without additional lighting
- C. Use a flashlight to illuminate the area
- D. Leave the area uninspected

Answer: C

Explanation: Using a flashlight to illuminate poorly lit areas is crucial for ensuring safety and obtaining accurate thermographic readings.

**Question: 1308**

If a technician is working in a confined space, what is a critical safety measure they should implement?

- A. Use a flashlight
- B. Bring extra equipment
- C. Work in pairs
- D. Ensure adequate ventilation

Answer: D

Explanation: Ensuring adequate ventilation is critical when working in confined spaces to prevent the buildup of harmful gases and ensure safety.

**Question: 1309**

During a wind turbine nacelle survey using a FLIR A700sc with 25° lens, a gearbox oil leak at 82 °C is detected. A blade pitch emergency occurs. Select all actions per the G+ Global Offshore Wind protocol

2026. (Below Options should be first shuffled and then made in Alphabetic Order, No blank line between below Options)

- A. Descend via the internal service lift at 1 m/s with fall arrestor on the Peikko rail system
- B. Notify the turbine controller via the SCADA HMI using emergency stop code EP-07
- C. Secure the thermal camera in the nacelle locker L-12 with 3-point harness clip
- D. Transmit the radiometric video clip via the 4G modem to the O&M control room at 10 Mbps

Answer: A,C,D

Explanation: Safe descent, equipment security, and data transmission are thermographer actions; SCADA stop requires turbine technician authority.

**Question: 1310**

When evaluating a building, a technician observes that certain areas are significantly warmer than others. Which process is likely responsible for this temperature variation?

- A. Conduction
- B. Convection
- C. Radiation
- D. Reflectance

Answer: C

Explanation: Radiation can cause significant temperature variations due to the way surfaces absorb and emit infrared energy. Warmer areas may be receiving more direct sunlight or heat from nearby sources.

**Question: 1311**

Health and safety during ladder access survey of a two-storey 1950s home with a FLIR E8-XT?

- A. Ladder standoff with 1.2m clearance and 75° angle per HSE INDG 455
- B. Harness with twin lanyard and inertia reel for >4m height
- C. Non-conductive fiberglass ladder rated 150kg with anti-slip feet
- D. Spotter with radio and 5m exclusion zone below work area

Answer: A,C,D

Explanation: INDG 455, fiberglass, and spotter are mandatory. Harness required >6m or roof work.

**Question: 1312**

You are preparing to use a thermal camera in an area with high electromagnetic interference. What precaution should you take?

- A. Use the camera without any adjustments
- B. Conduct the survey without any equipment
- C. Ignore the interference as it won't affect results
- D. Adjust the camera settings to minimize interference

Answer: D

Explanation: Adjusting the camera settings to minimize electromagnetic interference is crucial for obtaining accurate thermographic readings in such environments.

**Question: 1313**

How often should an infrared thermography operator review their compliance with legal requirements?

- A. Once every few years
- B. Only when prompted by an audit
- C. Regularly, to stay updated on changes
- D. Never, as laws do not change

Answer: C

Explanation: Operators should regularly review their compliance with legal requirements to stay updated on any changes. This proactive approach helps maintain adherence to current regulations.

**Question: 1314**

Under the Climate Change Act 2008 (2050 Target Amendment) Order 2024, a local authority commissions a city-wide thermographic audit. Which statutory instruments compel the thermographer to prioritise buildings with EPC band F or G?

- A. Carbon Budget Delivery Plan 2024 Clause 3.2 mandatory triage hierarchy
- B. MEES Regulations 2015 (as amended 2023) Regulation 24 enforcement schedule
- C. Net Zero Strategy: Build Back Greener 2021 Section 4.1 public sector decarbonisation
- D. PAS 2038:2021 Retrofit for Non-Domestic Buildings Clause 5.1 risk stratification

Answer: A,B

Explanation: Carbon Budget Delivery Plan 2024 Clause 3.2 mandatory triage hierarchy legally binds public contracts to worst-first logic. MEES Regulations 2015 (as amended 2023) Regulation 24 enforcement schedule mandates sub-standard domestic private rented sector targeting; Net Zero Strategy

is policy not statute, and PAS 2038 is advisory.

**Question: 1315**

Internal survey reveals anomalous 7 K hot spot behind plasterboard at 1.2m height. Select all corrective actions per ABBE anomaly protocol v5.1.

- A. Mark location with IR-visible tape, photograph with thermal+visual overlay
- B. Measure surface temperature with contact probe Type-K  $\pm 0.5^{\circ}\text{C}$ , record Delta-T
- C. Consult BRE registered thermographer via secure channel for second opinion
- D. Drill 6mm inspection hole and insert borescope to verify cavity insulation

Answer: A,B,C

Explanation: Marking, contact probe, and expert consultation are protocol; drilling requires separate invasive works permission.

**Question: 1316**

What is the typical storage requirement for an infrared camera to ensure optimal performance?

- A. Store in a humid environment
- B. Leave the camera exposed to direct sunlight
- C. Keep in a temperature-controlled environment
- D. Store with batteries removed

Answer: C

Explanation: Keeping the camera in a temperature-controlled environment helps maintain its performance and prevents damage to sensitive components.

**Question: 1317**

In a 1901 terrace, penetrating damp at party wall following neighbour's tanking. Select all circumstances.

- A. Application of cementitious tanking slurry internally to 1.2 m height
- B. Installation of injected chemical DPC at 100 mm above FFL
- C. Neighbour's solid floor with impermeable finish
- D. Use of SikaMur InjectoCream across party wall

Answer: A

Explanation: Cementitious tanking slurry to 1.2 m height diverts moisture laterally through party wall, while DPC and floor affect rising damp and InjectoCream is localized.

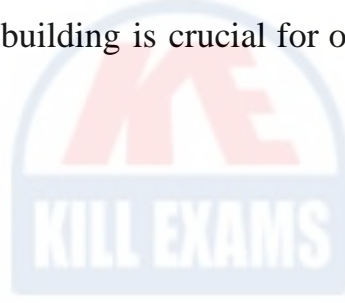
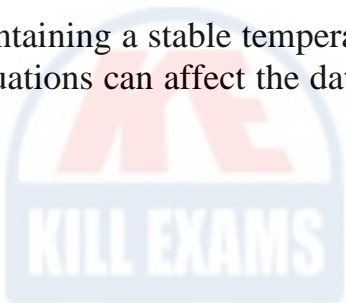
**Question: 1318**

When preparing for a thermographic survey, what is the best practice regarding the environment of the building?

- A. Ensure all windows are closed
- B. Turn off all heating systems
- C. Increase humidity levels
- D. Maintain a stable temperature inside the building

Answer: D

Explanation: Maintaining a stable temperature inside the building is crucial for obtaining accurate thermal readings, as fluctuations can affect the data collected.



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