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## IICRC Water Damage Restoration Technician (WRT) Sample Questions (Q45-Q50):

### NEW QUESTION # 45

Which best describes Category 2 water?

- A. Water that originates from a sanitary source and flows into an uncontaminated building
- B. Water that originates from a sanitary water source and does not pose substantial risk from ingestion or inhalation exposure
- C. Water that contains significant contamination and has the potential to cause discomfort or sickness if contacted or consumed by humans
- D. Water that is grossly contaminated and can contain pathogenic, toxigenic, or other harmful agents

**Answer: C**

Explanation:

The IICRC WRT body of knowledge defines Category 2 water as water that contains significant contamination and has the potential to cause discomfort or illness if contacted or consumed. This classification recognizes that while Category 2 water is not grossly contaminated like Category 3, it is no longer considered clean or sanitary.

Examples commonly cited in the WRT manual include dishwasher or washing machine discharge, toilet overflows with urine but no feces, and seepage due to hydrostatic pressure. These sources may contain microorganisms, nutrients for microbial growth, or other contaminants that pose health concerns.

The WRT standard emphasizes that Category 2 water presents an elevated health risk and requires enhanced controls compared to Category 1. This may include increased PPE, more aggressive cleaning, and careful evaluation of materials for restorability. Porous materials affected by Category 2 water may need to be removed depending on exposure time and degree of absorption.

Importantly, the WRT body of knowledge highlights that water can degrade in category over time if left untreated. Category 2 water can become Category 3 due to microbial amplification, reinforcing the importance of timely mitigation and proper classification during the initial inspection.

### NEW QUESTION # 46

Which term describes the amount of moisture contained in an air sample as compared to the maximum amount the air sample could contain at that temperature?

- A. Relative humidity
- B. Absolute humidity
- C. Humidity ratio
- D. Dew point

**Answer: A**

Explanation:

Relative humidity (RH) is defined in the WRT body of knowledge as the amount of moisture contained in an air sample compared to the maximum amount that the same air sample could contain at that temperature (i.e., at saturation). The WRT manual explains RH as a percentage measure on the psychrometric chart- expressing the proportion of moisture present versus what the air could hold if saturated at that same temperature.

This definition is essential because RH is temperature-dependent: as air temperature changes, RH changes even if the actual moisture content (humidity ratio) stays the same. The WRT reference emphasizes that air can hold more water vapor as temperature increases; therefore, increasing temperature decreases RH (with no added moisture), while decreasing temperature increases RH.

In restoration practice, RH is used as a practical indicator of the drying environment and a predictor of moisture behavior in hygroscopic materials. The WRT manual notes that hygroscopic materials have an equilibrium moisture content primarily determined by RH: when RH is low, materials generally lose moisture; when RH is high-especially above about 60%-materials tend to gain significant moisture, increasing the likelihood of secondary damage.

Although restorers frequently track humidity ratio (GPP) and vapor pressure to quantify drying force, RH remains a core operational measurement because it is directly readable from a thermo-hygrometer and aligns with material response risk thresholds.

Consequently, RH is the correct term for the described comparison-to- maximum-at-temperature concept, and it is one of the foundational psychrometric variables used in WRT to manage drying conditions and prevent secondary damage.

### NEW QUESTION # 47

What term best describes the amount or weight of water vapor within a given weight of dry air?

- A. Relative humidity
- **B. Humidity ratio**
- C. Saturation factor
- D. Moisture content

**Answer: B**

Explanation:

The IICRC WRT body of knowledge defines humidity ratio as the amount (or weight) of water vapor contained in a given weight of dry air. It is typically expressed as grains per pound (GPP) or grams per kilogram and represents an absolute measurement of moisture in the air.

Unlike relative humidity, humidity ratio does not change with temperature unless moisture is added or removed. This makes it one of the most reliable psychrometric measurements for evaluating drying potential and comparing indoor and outdoor air conditions.

The WRT manual emphasizes that humidity ratio is critical for determining vapor pressure, dew point, and the suitability of ventilation drying. Restorers frequently rely on humidity ratio to decide whether introducing outdoor air will improve or hinder drying.

Moisture content applies to materials, not air, and relative humidity is a percentage comparison rather than a mass measurement.

Therefore, humidity ratio is the correct and precise term under WRT psychrometric science.

### NEW QUESTION # 48

How shall a restorer dispose of wastewater?

- **A. Per applicable laws and regulations**
- B. As required by AHAM
- C. As defined in the ANSI/IICRC S520
- D. In accordance with OSHA 29 CFR

**Answer: A**

Explanation:

The IICRC WRT body of knowledge states that wastewater generated during water damage restoration must be disposed of in accordance with applicable local, state, and federal laws and regulations. Wastewater may contain contaminants, sediments, microorganisms, or chemical residues, and improper disposal can create environmental and public health risks.

The WRT manual emphasizes that restorers are responsible for understanding disposal requirements within the jurisdiction where work is performed. These requirements may regulate where wastewater can be discharged (e.g., sanitary sewer systems) and prohibit disposal into storm drains, onto soil, or into surface waters. Disposal practices may also vary depending on contamination category, such as sewage or chemically contaminated water.

OSHA regulations focus on worker safety, not wastewater disposal. AHAM standards apply to appliance performance testing, not environmental disposal. ANSI/IICRC S520 addresses mold remediation, not wastewater handling. Therefore, none of those documents define wastewater disposal requirements.

By following applicable laws and regulations, restorers ensure environmental compliance, protect public infrastructure, and reduce legal liability. This requirement reflects the WRT emphasis on regulatory awareness and responsible professional conduct.

### NEW QUESTION # 49

What percentage of relative humidity has the greatest potential for structural or microbial damage to hygroscopic materials to occur?

- **A. 70%**
- B. 50%
- C. 30%
- D. 40%

**Answer: A**

Explanation:

The IICRC WRT body of knowledge identifies relative humidity at or above approximately 70% as presenting the greatest risk for structural and microbial damage to hygroscopic materials. At this level, many materials readily absorb moisture from the air, increasing moisture content even without direct liquid water contact.

The WRT manual explains that hygroscopic materials such as wood, paper, drywall, and textiles reach higher equilibrium moisture contents as RH increases. When RH exceeds safe thresholds, these materials may swell, deform, lose structural integrity, or support microbial growth.

Microbial amplification risk also increases significantly at higher RH levels. While mold growth depends on multiple factors, sustained RH above approximately 60-70% greatly increases the likelihood of microbial activity on organic materials.

This is why restorers are trained to aggressively control humidity during drying and to monitor RH as part of daily documentation. Maintaining RH well below damaging thresholds protects unaffected materials and limits secondary damage during the restoration process.

## NEW QUESTION # 50

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