

⑦. SRI KRISHNAYI (1559)

① There is a failure in leak test Thermal Batteries

(Ans) Tig welding M/C MS to leak checked

Tig welding M/C current checked first

hid pins Tig welding to leak checked

what is leak Testing in leak Testing inspectors

use pressure to identify the presence of

defects in an object that are causing leaks

when substances leak out of a container they

flow from where the pressure is higher

pressure to where it is lower

it is almost exclusively performed using

helium as a surrogate in which case it is

referred to as Helium leak Testing

TAC have provided back ground information on

the basics of leakis and leak testing which can

help to determine a leak test solution

②

(Ans) ① examine the quality of the product

② Be wary of unusually low prices

③ inspect the packaging carefully

④ check if logos and trademarks are displayed correctly

(3)

(Ans) The chemicals especially lead & acid in the Batteries leak into the environment & pollute the Groundwater and threaten aquatic life. Battery components such as sulphuric acid and lead sulphate are extremely corrosive. Therefore too much spillage & exposure flames up the landfills and pollutes the air.

(4)

Any Thermal Batteries can experience thermal Runaway under certain usage conditions. This can lead to safety issues for personnel and cause damage to associated test equipment if the Battery thermally self-destructs.

I'm curious about how the problem of Thermal Runaway is currently being addressed in Battery particularly in electric vehicles energy storage systems and consumer electronics. From what I've read Thermal Management systems advanced materials and BMS play a big role but I'd like to hear more about it.

(5)

(Ans) Quickly addressing Material Shortage Solutions

① Establishing a Rapid Response team setting up a dedicated team to handle material shortages facilitates quick decision making utilising alternate suppliers when usual supply channels fail having pre-vetted alternate suppliers can be a lifesaver.



①

⑦ process managers are responsible for the operational execution of the process and ensures its implementation based on the strategic guidance provided by the

④

⑤ ① applicable to clauses  
context of the organization

Documents needed

Leadership

Planning

Support

Operation

Performance evaluation

Improvement

Specific Documents

Quality Manual

Process Flowcharts

Risk Management Documentation

Records of Competence / Training

Corrective and preventive Action Records

Audit Reports and Results

internal and external Communication  
Records

choose the correct answers

① ✓

② 7.B.8C.6

③

④ All A B & C ✓

⑤

⑥

⑦ Management Representative

⑧

⑨ International Aerospace Quality ✓

⑩

⑪ Customer focus

Leadership ✓

Engagement of people ✓

Process approach ✓

Improvement

Evidence-based decision making

Relationship Management

⑫