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College Name: Thiriuthangal Nadar College	College Code: 1435
University Name: Madrias University	University Code:
Date: 20/9/2 Name of the Candidate: V. R	enuka Devi
Department: BLOM (Accounting & Finance) College ID/	Roll No .: 21B(DNAFI)
Contact No.: 9345692373 e-mail ID:	renubad 829@gmail.COM

OPERATIONAL LOGISTICS - ASSIGNMENT ON CASE OBSERVATIONS

Topic of Case Observation: Freight forwarding office activities are field achieves and verification by Gist invoice and e-way bills

(ase 2:

Shipping goods to Enternational martets Envolves several tasks. Business houses may have their to house arrangements to ship goods abroad of they may stely on preight forwardens to do this for them, they would also prefer to handle non core achivities such as parting, preight forwarding st. In a freight forwarding company like

GIST offie achiertes related to documentation management are Guidal to ensure smooth international shipment document collection gather necessary shipping documents plan various sources, including invoire, bills of sources lading. Export licenses and certificates of Origin. Data entry from Collected documents into the company's database or shipping sophose to create electronic steconds of shipments. prepare and manage customs. related downersts, such as import / Export declaration, to ensure compliance with inter national stegulation.





College Name: Thiruthangal radax college College Code: 1435
University Name: University of madras University Code:
Date: 22/9/2023 Name of the Candidate: T. Jaya mani Kandan
Department: Commexce (General College ID/ Roll No.: 312113191
Contact No.: 7305414404 e-mail ID: JKandan@g mail.com

OPERATIONAL LOGISTICS - ASSIGNMENT ON CASE OBSERVATIONS



TN APEX SKILL DEVELOPMENT CENTRE FOR LOGISTICS

College Name: This uthangal nadas college College Code: 1435					
University Name: University Of mondaya University Code:					
Date: 21/9/2023 Name of the Candidate: T. Jayamani Kandan					
Department: com mexce (Greneral) College ID/Roll No.: 312113191					
Contact No.: 7305414404 e-mail ID: Jkandan 15@gmail.com					
OPERATIONAL LOGISTICS - ASSIGNMENT ON CASE OBSERVATIONS					
Topic of Case Observation: Unit - 4					
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College Name	Thisuthangal nadar college	College Code: 1435
University Nar	ne: university of madras Univ	versity Code:
Date: 20/0	9/2023 Name of the Candidate: T. Jayo	rmanikandan
Department:	Commerce (Greneral) college ID/ Roll	No.: 312113191
Contact No.:	7305414404 e-mail ID: JKa	andon 15@gmail.com

OPERATIONAL LOGISTICS - ASSIGNMENT ON CASE OBSERVATIONS

Topic of Case Observation:

case study: 1 and 5 (unit-2)

1. Bill of Landing!

A Bill of landing (B/L) is a crucial document in Exim documentation for preight forwarding. It serves as a contract of carriage, receipt of goods, evidence of title. The B/L should include information Such as shipper's and confignee's details, description of goods, marks and numbers, and the terms and condition of carriage . It serves as proof of Shipment and provides legal protection for both the Shipper and the carrier. The BIL is required for customs cleasance, serves as a document of title and is necessary for initiating the release of goods at the destination port.

5, Accurate Packing lists are crucial in Exim documentation for preight forwarding. The Packing list provides detailed information about the contents of each package or container being Shipped.



TN APEX SKILL DEVELOPMENT CENTRE FOR LOGISTICS





EV Battery Management

University Name: Madras University

Student Name: Naveen M

College Name: Thiruthangal Nadar College

NM ID: unm143521BSCCHE09





Electric Vehicle Safety Features: Explore safety features specific to electric vehicles, crash avoidance technology, and emergency response protocols



Electric Vehicle Safety Features:

- Battery Management Systems (BMS)
- Structural Integrity
- Low Center of Gravity
- Crashworthiness
- Battery Thermal Management



1.Battery Management Systems (BMS):

- 1. BMS monitors the health, temperature, and state of charge of the battery pack.
- 2. It prevents overcharging, deep discharging, and thermal runaway, ensuring battery safety.

2.Structural Integrity:

- 1. EVs are designed with strong structural integrity to protect the battery pack during collisions.
- 2. Many EVs use a skateboard-style chassis, with the battery pack forming a low center of gravity for enhanced stability and safety.

3.Low Center of Gravity:

1. The placement of heavy battery packs in the floor of the vehicle results in a lower center of gravity, reducing the risk of rollovers and improving handling.

4.Crashworthiness:

1. EVs are engineered with advanced crumple zones and reinforced passenger compartments to absorb and distribute crash forces away from occupants.

5.Battery Thermal Management:

- 1. Thermal management systems regulate the temperature of the battery pack to prevent overheating, which can lead to fires or thermal runaway.
- 2. Liquid cooling or air cooling systems are commonly employed to maintain optimal battery temperature.



Crash Avoidance Technology:

- Collision Warning Systems
- Lane Departure Warning
- Blind Spot Detection
- Adaptive Cruise Control
- Automatic Parking Assistance



Collision Warning Systems:

- Forward collision warning systems use sensors to detect potential collisions and alert the driver to take evasive action.
- Some systems include automatic emergency braking, which can apply the brakes to mitigate or avoid a collision.

• Lane Departure Warning:

• Lane departure warning systems use cameras or sensors to detect unintended lane departures and alert the driver to steer back into the lane.

• Blind Spot Detection:

• Blind spot detection systems monitor the vehicle's blind spots and provide visual or audible alerts if a vehicle is detected in adjacent lanes.

• Adaptive Cruise Control:

• Adaptive cruise control adjusts the vehicle's speed to maintain a safe following distance from the vehicle ahead, reducing the risk of rear-end collisions.

• Automatic Parking Assistance:

• Automatic parking systems use sensors and cameras to assist the driver in parallel or perpendicular parking maneuvers, reducing the risk of collisions with obstacles or other vehicles.



Emergency Response Protocols

- Emergency Shut-off Procedures
- Vehicle Identification
- Battery Isolation
- Collaboration with Manufacturers
- Public Awareness Campaigns



• Emergency Shut-off Procedures:

• Emergency responders are trained to locate and deactivate high-voltage systems in EVs to mitigate the risk of electric shock or fire during rescue operations.

• Vehicle Identification:

• Emergency responders are trained to identify EVs and locate relevant safety information, such as the location of the battery pack and high-voltage components.

• Battery Isolation:

• Specialized tools and procedures are used to isolate the high-voltage battery pack to prevent electrical hazards during extrication or firefighting



• Collaboration with Manufacturers:

• Emergency responders often collaborate with EV manufacturers to develop specialized training programs and protocols for handling EV-related incidents.

• Public Awareness Campaigns:

 Public awareness campaigns are conducted to educate drivers and emergency responders about the unique safety features and protocols associated with electric vehicles.





THANK YOU

Name :Naveen M Email Id : naveennatraj2000@gmail.com Phone no:6379944243





EV Battery Management

University Name: Madras University

Student Name: R. Nishanth

College Name: Thiruthangal nadar college

NM ID: unm143521BSCCHE01



Importance of Battery Performance Testing

- Batteries are fundamental components in various devices and systems, powering everything from smartphones to electric vehicles.
- The performance of batteries directly impacts the functionality, efficiency, and safety of these devices and systems.
 - Quality Assurance
 - Safety Assurance
 - Optimization of Design and Manufacturing
 - Efficiency and Sustainability
 - Cost Reduction
 - Innovation and Advancement



Quality Assurance:

- Battery performance testing ensures that batteries meet specified standards and perform reliably under various conditions.
- It helps manufacturers maintain quality control and deliver products that meet consumer expectations.

Safety Assurance:

- Testing identifies potential safety risks such as overheating, leakage, or unexpected failures, reducing the likelihood of accidents or damage.
- Ensures compliance with safety regulations and standards, enhancing user safety.



Optimization of Design and Manufacturing:

- Data from performance testing informs the design and manufacturing processes, enabling improvements in battery efficiency, lifespan, and reliability.
- It facilitates optimization of materials, construction techniques, and production processes.

Efficiency and Sustainability:

- Testing enables evaluation of energy efficiency and environmental impact, contributing to the development of more sustainable battery technologies.
- Identifies opportunities for reducing energy consumption, enhancing resource utilization, and minimizing environmental footprin



• Early detection of performance issues through testing helps prevent costly recalls, warranty claims, and product failures.

• Optimization of battery performance leads to longer lifespan, reduced maintenance costs, and improved return on investment.

Innovation and Advancement:

Cost Reduction:

- Performance testing drives innovation in battery technology by identifying limitations and areas for improvement.
- It fosters research and development efforts aimed at enhancing energy density, power output, and cycle life.



Battery Performance Parameters

- Capacity (mAh, Ah)
- Voltage (V)
- Internal resistance (ohms)
- Charge and discharge rate (C-rate)
- Temperature (°C)
- Cycle life
- Efficiency (%)
- Energy density (Wh/kg)
- Power density (W/kg)
- Voltage stability under load





Testing Setup

- Types of Batteries Tested
- Test Environment
- Instruments Used
- Safety Precautions

Types of Batteries Tested:

- Lithium-ion
- Lead-acid
- Nickel-metal hydride
- [Any other relevant battery types]

Test Environment

Temperature-Controlled Chamber:

- Maintain consistent temperature for reliable testing results.
- Prevent temperature fluctuations that could impact battery performance.

Ambient Conditions:

- Consideration of real-world operating conditions for comprehensive testing
- Mimic environmental factors encountered during actual usage.



Instruments Used:



- 1. Data Logger:
 - Records battery parameters such as voltage, current, temperature, and capacity.
 - Provides accurate and detailed data for analysis and evaluation.
- 2. Multimeter:
 - Measures voltage, current, and resistance during testing.
 - Essential for real-time monitoring and troubleshooting.
- 3. Charge-Discharge Analyzer:
 - Controls charging and discharging processes with precision.
 - Enables standardized testing procedures and accurate data collection.
- 4. [Any other relevant instruments]

Safety Precautions:



- 1. Ventilation:
 - Ensure proper ventilation to dissipate heat and gases emitted during testing.
 - Prevent accumulation of potentially hazardous fumes.
- 2. Protective Gear:
 - Use appropriate personal protective equipment (PPE) such as gloves and goggles.
 - Minimize the risk of exposure to chemicals or electrical hazards.
- 3. Fire Suppression Systems:
 - Install fire extinguishers or other fire suppression systems in the testing area.
 - Mitigate the risk of fires caused by battery malfunction or overheating.
- 4. Emergency Shutdown Procedures:
 - Establish protocols for shutting down equipment in case of emergencies.
 - Ensure quick response to any safety incidents or equipment failures.



Methodology for Battery Performance Testing

- Charge-discharge cycles
- Constant current (CC), constant voltage (CV) charging
- Rest periods between cycles
- Temperature control during testing
- Calibration procedures for instruments

Charge-Discharge Cycles:

- Conduct repeated charge and discharge cycles to evaluate battery performance over time.
- Each cycle consists of charging the battery to its maximum capacity and then discharging it under controlled conditions.
- Monitor key parameters such as voltage, current, capacity, and temperature throughout the cycle.

Constant Current (CC), Constant Voltage (CV) Charging:



- Implement CC-CV charging method to ensure proper and controlled charging of the battery.
- In the CC phase, deliver a constant current to the battery until it reaches a predetermined voltage.
- Switch to the CV phase, where the voltage is held constant while the current decreases until the battery is fully charged.



Rest Periods Between Cycles:

- Include rest periods between charge and discharge cycles to allow the battery to stabilize.
- Rest periods minimize the impact of transient effects and ensure more accurate measurements.
- Monitor battery parameters during rest periods to capture any changes or deviations.



Temperature Control During Testing:

- Maintain temperature control throughout the testing process to simulate real-world operating conditions.
- Use a temperature-controlled chamber to regulate the environment and prevent temperature fluctuations.
- Monitor battery temperature closely during charge and discharge cycles to assess its impact on performance.



Calibration Procedures for Instruments:

- Perform regular calibration of testing instruments to ensure accuracy and reliability of measurements.
- Follow manufacturer guidelines for calibration procedures and frequency.
- Conduct calibration checks before and after testing sessions to verify instrument accuracy.
Data Collection Process during Battery Testing

- Frequency of data collection
- Parameters recorded at each interval
- Data logging techniques used
- Ensuring accuracy and reliability of data



Frequency of Data Collection:



- Data is collected at regular intervals throughout the testing process to capture changes in battery performance over time.
- The frequency of data collection depends on the duration of the test, the expected rate of change in battery parameters, and the desired level of detail.
- Common intervals range from seconds to minutes during charge and discharge cycles, with additional data recorded during rest periods.

Parameters Recorded at Each Interval:



- Voltage: Measure the electrical potential across the battery terminals.
- Current: Monitor the flow of electric charge into or out of the battery.
- Temperature: Track variations in battery temperature during testing.
- Capacity: Calculate the amount of charge stored or delivered by the battery.
- Internal Resistance: Assess the resistance to current flow within the battery.
- State of Charge (SoC): Determine the percentage of available energy remaining in the battery.
- State of Health (SoH): Evaluate the overall condition and performance of the battery.

Data Logging Techniques Used:



- Automated Data Logging: Utilize software-controlled systems to automatically record data from testing instruments.
- Manual Data Logging: Alternatively, data may be manually recorded by operators at predetermined intervals.
- Real-time Monitoring: Implement real-time data monitoring to track battery behavior during testing and identify anomalies or trends.

Ensuring Accuracy and Reliability of Data:



- Instrument Calibration: Calibrate testing instruments regularly to maintain accuracy and consistency.
- Quality Control Checks: Perform quality control checks to verify the reliability of data collected.
- Redundancy Measures: Implement redundancy in data collection systems to minimize the risk of data loss or corruption.
- Error Handling Procedures: Establish protocols for handling errors or discrepancies in data to ensure accurate analysis.



- Graphical analysis (charge-discharge curves, voltage vs. time, etc.)
- Statistical analysis (mean, median, standard deviation, etc.)
- Comparison with manufacturer specifications
- Trend analysis over multiple cycles



Graphical Analysis:

- Charge-Discharge Curves: Plot voltage vs. time to visualize the battery's behavior during charging and discharging cycles.
- Voltage vs. Time: Graph voltage over time to identify trends, fluctuations, and voltage stability.
- Capacity vs. Cycle Number: Track changes in battery capacity over multiple charge-discharge cycles to assess degradation.



Statistical Analysis:

- Mean: Calculate the average value of battery parameters such as voltage, current, and capacity.
- Median: Determine the middle value in a dataset to identify central tendencies.
- Standard Deviation: Measure the dispersion of data points around the mean, indicating variability in battery performance.



Comparison with Manufacturer Specifications:

- Compare measured parameters with specifications provided by battery manufacturers.
- Evaluate whether the battery meets expected performance criteria in terms of capacity, voltage, efficiency, etc.
- Identify deviations from specifications and assess their impact on battery performance and usability.



Trend Analysis Over Multiple Cycles:

- Analyze trends in battery behavior over numerous charge-discharge cycles.
- Identify patterns of degradation or improvement in capacity, voltage, and other performance metrics.
- Assess the consistency and reliability of battery performance over time.





THANK YOU

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EV BATTERY RECYCLING

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Student Name : M.Hemamalini

College Name : Thiruthangal Nadar College NM ID : Unm143521BSCCHE04



INTRODUCTION

- One of the most revolutionary ideas at the time of the invention was the battery.
- A battery is defined as a device where energy is stored and delivered through electrical means.
- The first efforts to recycle consumer batteries occurred in the early 1990's.
- Recycling processes today recover approximately 25% to 96% of the materials of a lithium- ion battery cell.

EV B&TTERY LOGISTICS

- Logistics vehicles are operational tools for logistics and leasing enterprises, and using the vehicles considering the cost of the whole life cycle.
- Safe and reliable delivery.
- High load capacity for efficient delivery.



EV BATTERY STATE



WHY SHOULD WE RECYCLE?

- 350 million are rechargeable.
- Only 99 million wet- cell- lead- acid car batteries are manufactured each year.
- Preserve natural resources.
- Batteries contain heavy metals such as mercury., lead, cadmium, and nickel, which can contaminate the environment when batteries are improperly disposes of.



WHAT TECHNOLOGY IS USED TO RECYCLE EV BATTERIES ?

Hydrometallurgical recycling



LITHIUM – ION B&TTERIES



WHAT IS THE BEST BATTERY TECHNOLOGY FOR ELECTRIC CARS ?

Lithium ion batteries is very efficient and offering excellent high – temperature performance, they are currently the best option for holding a stable charge and are recyclable.



Lithium ion



Nickel – Metal Hydride



Lead - acid



Ultracapacitor



ENVIRONMENTAL BENEFITS

- Zero emissions
- Cleaner fuel
- Energy in production
- Lower running costs
- Lower maintenance costs
- Tax benefits
- Reduction in secondary charges
- Better resale value
- Great performance
- Zero tailpipe emissions

THANK YOU...

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EV Battery Management

Battery Chemistry Analysis Presentation University Name: University Of Madras Student Name: T. Sandhanamari College Name: Thiruthangal Nadar College NM ID:UNM143521BSCCHE08



Introduction

• Introduction to the importance of battery chemistry in various applications, from consumer electronics to renewable energy storage



Importance of Battery Chemistry

- Definition: Battery chemistry refers to the chemical composition and reactions that occur within batteries to produce and store electrical energy
- Significance: Highlights the role of battery chemistry in determining performance, energy density, lifespan, and safety of batteries



Types of Battery Chemistries

- Lithium-ion (Li-ion): Most common in consumer electronics and electric vehicles (Evs), known for high energy density and long cycle life
- Lead-acid: Traditional and inexpensive, used in automotive and uninterruptible power supply (UPS) applications
- Nickel-metal hydride (NiMH): Common in hybrid vehicles and rechargeable consumer electronics
- Solid-state: Emerging technology promising higher energy density, safety, and lifespan compared to traditional Li-ion batteries



Components of Battery Chemistry

- Anode: Where oxidation (loss of electrons) occurs during discharge
- Cathode: Where reduction (gain of electrons) occurs during discharge
- Electrolyte: Medium facilitating the movement of ions between the anode and cathode
- Separator: Prevents short circuits between the anode and cathode



Lithium-ion Battery Chemistry

- Chemistry: Lithium cobalt oxide (LiCoO2) cathode, graphite anode, and electrolyte typically containing lithium salt
- Operation: Lithium ions move from the anode to the cathode during discharge and reverse during charging
- Advantages: High energy density, low selfdischarge, and long cycle life



Challenges and Limitations

Safety Concerns: Risk of thermal runaway and fire, especially in high-energy applications

Cost: Expensive raw materials, limited lithium supply, and complex manufacturing processes

Environmental Impact: Issues related to resource extraction, recycling, and disposal



Future Trends and Innovations

- Solid-State Batteries: Potential to overcome safety and energy density limitations
- Beyond Lithium: Exploration of alternative chemistries such as sodium-ion, potassium-ion, and magnesiumion batteriesRecycling and Sustainability: Advancements in battery recycling technologies to minimize environmental impact and promote circular economy practices



Applications and Implications

- Consumer Electronics: Powering smartphones, laptops, tablets, and wearable devices
- Electric Vehicles: Driving the transition to sustainable transportation
- Renewable Energy Storage: Enabling grid stabilization and integration of renewable energy sources



Conclusion

- Recap: Battery chemistry plays a crucial role in determining battery performance, lifespan, and safety
- Future Outlook: Continued research and innovation are essential for addressing challenges and unlocking the full potential of battery technologies
- Closing Remark: Understanding battery chemistry is key to shaping a sustainable and electrified future

Name of the student: College Name: College Code:	SYED SALMAN AHMED R IHIRUTHANGAL NADAR COURT 1435	University: Mobile numb E mail Id:	UNIVERSITY OF MADRAS 9 9444667890 Syed Salman ahmed 2004@gmail.com	η	- + -			
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