



**GREEN CUSTOMS FOR A SUSTAINABLE FUTURE:**  
**INNOVATIVE SOLUTIONS FOR TRADE AND BORDER MANAGEMENT**





# AGENDA

- **CHALLENGES OF SMALL ISLAND STATES**
- **GREEN CUSTOMS & TRADE STRATEGY**
- **PROMOTING PAPERLESS CUSTOMS & TRADE**
- **CLOUD HOSTING TO REDUCE CARBON FOOTPRINT**
- **PAPERLESS TRAINING, LEARNING & DEVELOPMENT**
- **GUIDING PRINCIPLES TOWARDS GREEN CUSTOMS**
- **FUTURE INITIATIVES**



# CHALLENGES OF SMALL ISLAND STATES

- Vulnerable to climate changes
- Reinforce Customs control on banned goods – Non-biodegradable plastics, CFCs
- Lack of control – Use of pesticides, insecticides, polluting materials
- Lack of collaboration in the trade sector – Public Private Partnership towards Green environment
- Investment in technology is high
- Research & Development in the Green initiatives is scarce
- Very dependent on large economy countries to reduce impact of climate change



# GREEN CUSTOMS & TRADE STRATEGY

- Digital Customs and Trade Platforms: Expand the use of digital platforms for customs procedures to streamline and automate processes.
- Enable real-time tracking and monitoring of shipments to ensure compliance with environmental regulations.
- Automated Customs Processes: Efficient Clearance – Automated systems for customs clearance reduce processing times.
- Smart Ports and Logistics: Implementing smart technologies to optimize transportation routes, reduce idle times, and minimize energy consumption, leading to a more efficient and eco-friendly supply chain.

# GREEN CUSTOMS & TRADE STRATEGY

- Green Data Analytics: Tracking and Reporting Environmental Metrics – Utilizing data analytics to track and report key environmental metrics associated with trade activities helps in assessing the overall environmental impact and identifying areas for improvement.
- MACCS has developed the efficiency dashboard for its stakeholders:
  - Realtime berthing of vessels and release of consignment
  - Just in time clearance of consignment
  - Reduce demurrage fee at the port
  - Reduce electricity and carbon footprint



# PROMOTING PAPERLESS CUSTOMS & TRADE

- Eliminate paper documents and adopt electronic submission of documents
- Mauritius Customs embarked in 100% e-Customs in 2012 (Process automation & BPR)
- All Customs services are now automated and accessible via our e-Service platform
- The WTO TFA paperless initiatives towards customs administrations
- The Mauritius Port Authority is now digitalized through its Vessel Clearance System developed jointly MACCS/MNS in line with the IMO standards
- The private sectors – Freight Forwarding Agent/Customs Brokers shall soon embarked in a digital transformation journey.
- Use of IoT to reduce paper documents and movement of trucks in the port area

**ALL EFFORTS TO PROMOTE GREEN CUSTOMS & TRADE**

# CLOUD HOSTING TO REDUCE CARBON FOOTPRINT

- The partners in the Trade Community (Port, Customs and the private sectors) does not require to host their information systems independently
- Hosting their solution in either a public or private cloud shall reduce the use of electricity to power different data centers in the Trade community
- Cloud hosting reduce drastically carbon foot print as less electricity is consumed
- MACCS has embarked in 100% Cloud hosting of its core services since 2020 and now extending the services with the private sectors to host their information systems.

**MACCS successfully embarked in Green Customs & Trade with our Technology partner**



# PAPERLESS TRAINING – LEARNING MANAGEMENT SYSTEM & E-LEARNING

- Traditional Training should be reduced and replaced by blended learning through the use of e-Learning platform
- Less printing of documents and training/exams materials
- No physical movement of participants hence reducing carbon footprint
- In large Customs Administrations, training become more accessible via the e-Learning platform
- WCO has promoted same since more a decade to reach out all Customs officers for training and sharing of WCO tools & best practices
- The Mauritius Customs has already embarked in this green initiatives
- MACCS has created a center of excellence for Trade to promote use of e-learning.



# MACCS E-LEARNING PLATFORM



# MACCS E-LEARNING PLATFORM

The screenshot displays the MACCS E-Learning Platform dashboard. At the top left is the MACCS logo with the tagline "EMPOWERING LOGISTICS". Navigation links for "Home", "Dashboard", and "My courses" are present. On the top right, there are notification and chat icons, a user profile icon labeled "MA", and an "Edit mode" toggle switch.

The main content area features a personalized welcome message: "Welcome back, Manveer!". Below this is a "My courses" section with sorting options for "Sort", "Order", and "Card". Three tabs are available: "Available courses", "Courses in progress", and "Completed courses".

Two course cards are shown in the "Courses in progress" tab:

- Introduction to MACCS**: "Introduction to Mauritius Cargo Community Servic...", 100% complete.
- Vessel Clearance system VCS**: "Vessel Clearance System", 75% complete.

At the bottom, there is a "Timeline" section with filters for "Next 7 days" and "Sort by dates", and a search bar labeled "Search by activity type or name".



# MACCS E-LEARNING COURSE



[Home](#) [Dashboard](#) [My courses](#)

  MA 

[Course](#) [Participants](#) [Grades](#) [Competencies](#)

✕

## Vessel Clearance System

### ▼ Chapter 1

Introduction to VCS

### ▼ Chapter 2

Roles and Responsibilities in ...

### ▼ Chapter 3


VCS DEMO VIDEO

### ▼ Completion Certificate

Completion Certificate

### ▼ Chapter 1

[Collapse all](#)

 Introduction to VCS

[To do: View](#)


### ▼ Chapter 2

 Roles and Responsibilities in VCS

[To do: View](#)

[To do: Complete the activity](#)

### ▼ Chapter 3

 VCS DEMO VIDEO

[To do: View](#)

### ▼ Completion Certificate

 Completion Certificate


[To do: View](#)

[elearn.maccs.mu/lms/user/index.php?id=27](http://elearn.maccs.mu/lms/user/index.php?id=27)



# MACCS E-LEARNING MODULE

Introduction to Vessel Clearance System (VCS) Resources Drawing



Hi!  
I am Chen, and I will be your virtual guide for this session

⋮ || 1x 🔊 3 of 26 < Next >



# KNOWLEDGE TESTS AND QUIZ

Introduction to Vessel Clearance System (VCS)

[Resources](#)

Select the correct answer option:

**Who will have access and interact with the VCS System?**

- Shipping Agents registered with the MPA
- System Administrators (MPA, MACCS, MNS)
- Government Officers
- All of the above



Your Score: 0 of 1

Question 1 of 1

[Submit](#)



# INTERACTIVE SESSIONS

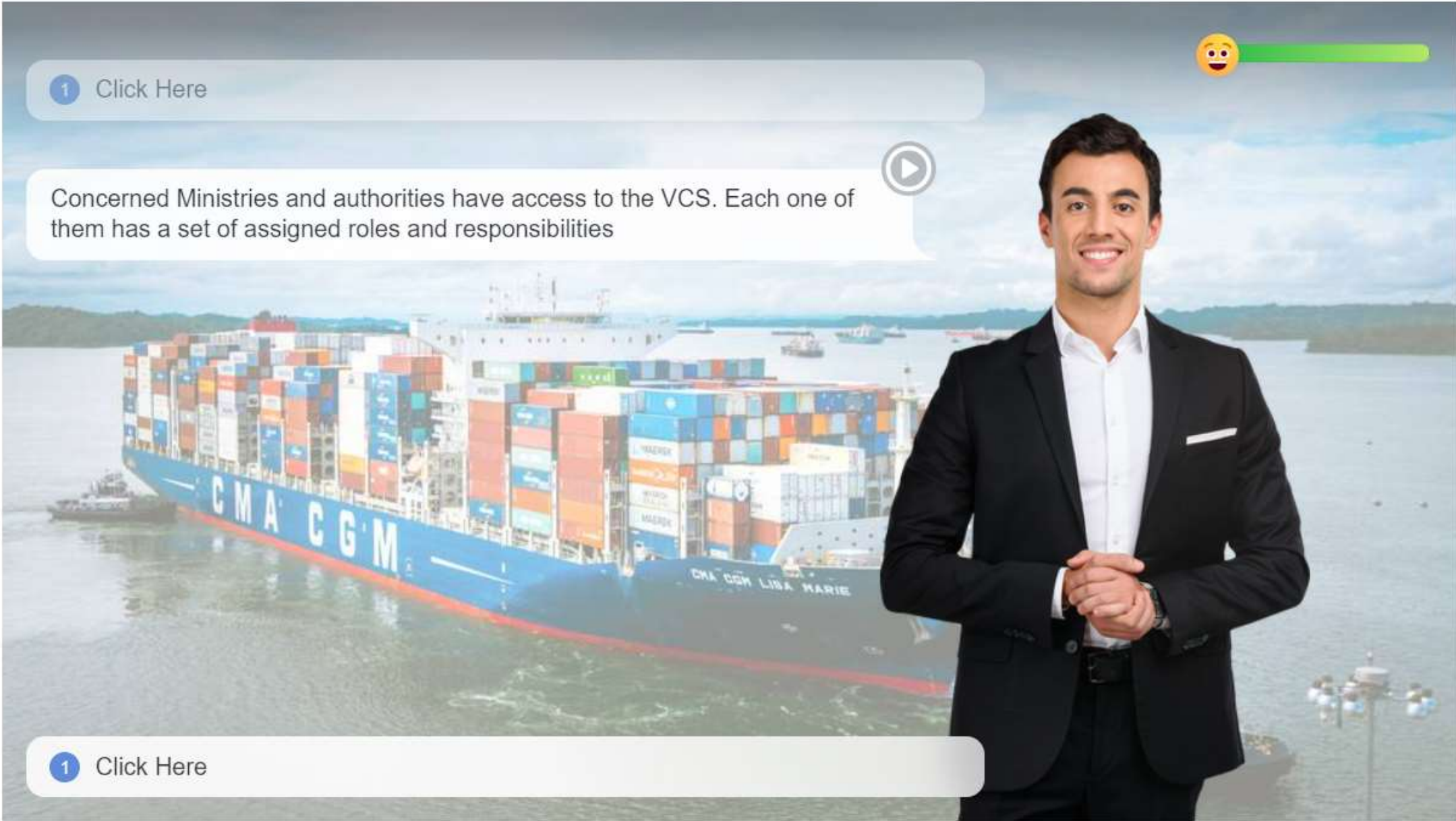
VCS Authorities

Resources Drawing

😊

1 Click Here

Concerned Ministries and authorities have access to the VCS. Each one of them has a set of assigned roles and responsibilities



1 Click Here

☰ ▶ 🔊

8 of 13 < Next >

The image shows an interactive session interface. At the top, it says 'VCS Authorities' and has buttons for 'Resources' and 'Drawing'. Below this is a video player area. A play button is visible in the center of the video frame. A text box on the left contains the text: 'Concerned Ministries and authorities have access to the VCS. Each one of them has a set of assigned roles and responsibilities'. There are two 'Click Here' buttons, one at the top left and one at the bottom left of the video frame. A progress bar with a smiley face emoji is at the top right. At the bottom, there are navigation controls: a menu icon, a play button, a volume icon, a page indicator '8 of 13', and a 'Next' button with left and right arrows.



# COURSE COMPLETION



×

Chapter 1

Introduction to VCS

Chapter 2

Roles and Responsibilities in ...

Chapter 3

VCS DEMO VIDEO

Completion Certificate

Completion Certificate



## Completion Certificate

Mauritius Cargo Community Services > VCS > Completion Certificate

To do: View

View certificate



Previous activity  
VCS DEMO VIDEO

Jump to...

Contact us



Follow us



Contact site support

You are logged in as Manveer Aumeerun (Log out)

Data retention summary



# COMPLETION CERTIFICATE

Completion Certificate

1 / 1 | - 80% + | [Fullscreen] [Refresh]

Download Print



1



## CERTIFICATE OF COMPLETION

THIS IS TO CERTIFY THAT

Manveer Aumeerun

HAS SUCCESSFULLY COMPLETED THE COURSE OF

Vessel Clearance System

 4 October 2023



# GUIDING PRINCIPLES TOWARDS GREEN CUSTOMS & TRADE

- Leadership – high level commitment
- Targets – achievable & quantifiable
- Education – Promote continuous learning & development towards Green Customs
- Collaboration – Customs, Trade & Logistics partners
- Monitoring – a committee set up for regular follow-up on green initiatives
- Commitment – ensure all parties have incorporated Green strategy
- Investment – Green initiative, latest technologies, research & development

**Go Green for a better world!**

# THANK YOU!

MEET US AT BOOTH NO. 6



**WEBSITE**

[www.maccs.mu](http://www.maccs.mu)