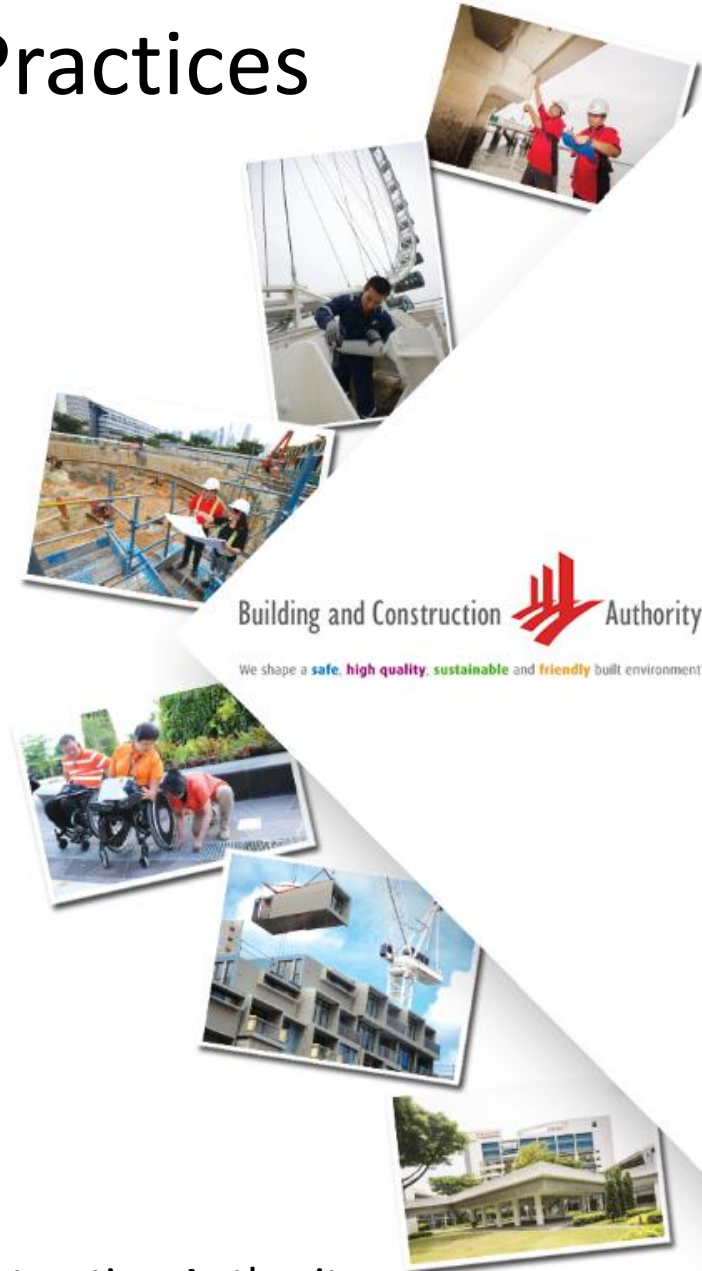


BCA-Industry Joint Webinar on Restart Best Practices

Sharing of Findings and Good Practices observed during Audit and Inspection on Project Sites/Supply Works Premises

No. of slides: 31

Jeremy Tan
Deputy Director
Building and Construction Authority



Building and Construction Authority
We shape a **safe**, **high quality**, **sustainable** and **friendly** built environment.



Outline

- Preventing Major COVID+ Outbreak
- Lessons from BE Sector COVID+ Outbreak
- Sharing on BCA's audit findings
- Good practices observed
- Areas for improvement

COVID-Safe Restart Criteria

To ensure a COVID safe Built Environment, all construction projects/supply work premises need to comply with the three COVID-safe Restart Criteria

COVID-Safe Restart Criteria

1

COVID-Safe
Workforce

2

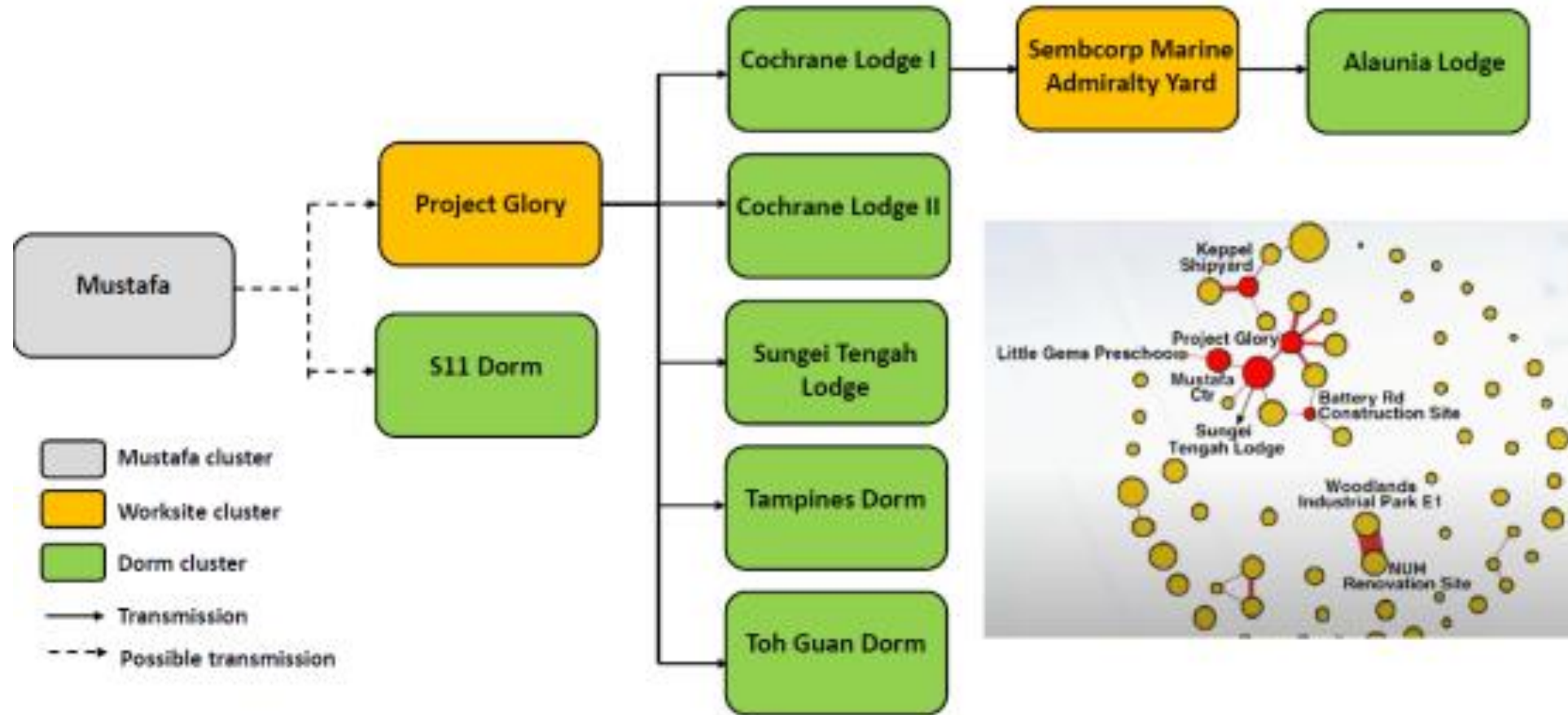
COVID-Safe
Worker
Accommodation
and
Transportation

3

COVID-Safe
Worksite

Major COVID+ Outbreak at Project Glory

Worksites are potential “hubs” of virus transmission leading to multiple clusters



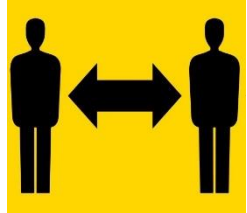
- Largest construction site cluster linked to 6 dormitories
- Work at site was halted

Preventing Major COVID+ Outbreak

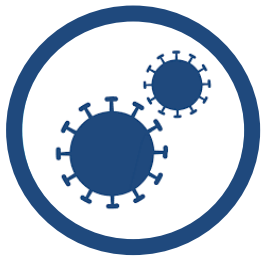
Key Objectives



1) Safe Access: Allow only healthy and approved workers to work at worksites



2) Safe Distancing: Enforce safe-distancing, segregation and cohorting measures at worksites



3) Containment: Ensure COVID+ and quarantined workers are isolated swiftly

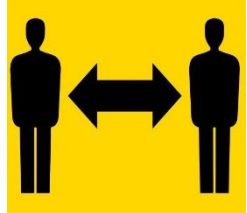
Preventing Major COVID+ Outbreak

Key Things to Look Out for



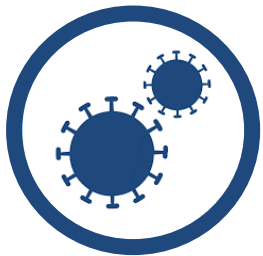
1) Safe Access

- **Entry control**
(Implement Safe Entry [NRIC], approved workers only, roving sub-contractors and visitors do not mix with workers on site)



2) Safe Distancing

- **Safe Management Officer/Safe Distancing Officer**
- **Segregation** of Teams & Work Zones (communal facilities are hot spots)
- **Pre-pack meals**
- Turn on **TT (Trace Together)**



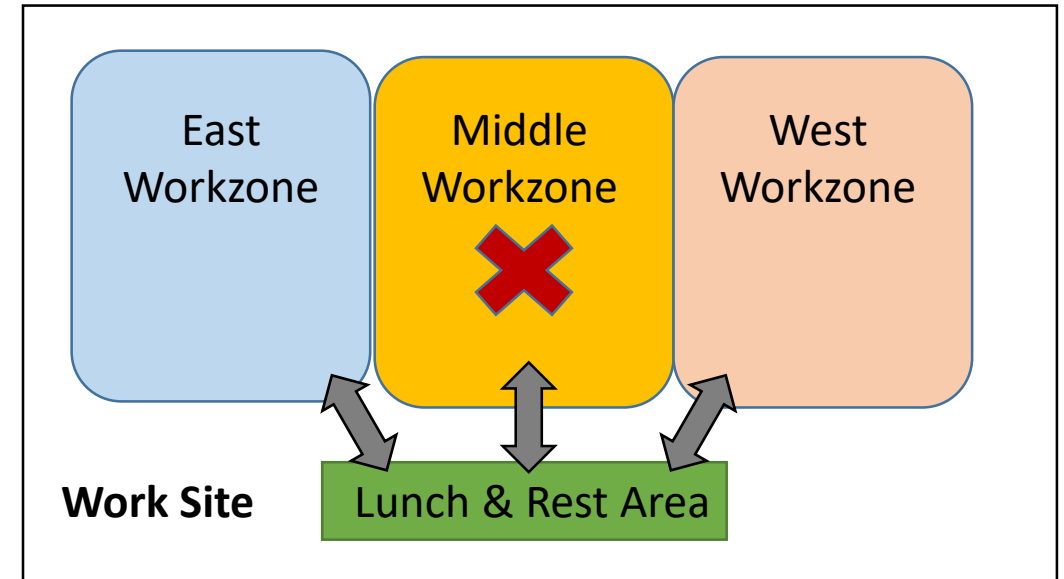
3) Containment

- **C+ Response Plan**
(Cordon off affected zones, isolate worker, clean & disinfect, inform authorities)

Key Lessons from Recent Outbreak

C+ Outbreak

- 6 COVID+ cases were first confirmed among a 8-man team working in the Middle work zone
- Quarantine Orders (QO) issued to 356 close contacts in workplace, place of residence, and through social interaction



Risk of spread from middle to East and West workzone

Causes

- **Common lunch and rest areas** - workers from 3 work zones use shared facilities
- **Company transportation** - workers across 3 work zones take same transport to place of residence
- **Common residence** - workers from different work zones share same residence and socially interacted with one another

Key Lessons from Recent Outbreak

Actions Taken

- MOH served Stop Work Order, Site closure and Disinfection
- Locked down entire block of residence with 77 workers conveyed to GQFs and 144 workers quarantined in-situ

Key Lessons Learnt

- **Cohort workers** according to work zones
- **No mixing of different cohorts** during transportation and in places of residence to prevent cross infection
- Segregate workers from different work zones and **stagger the use of common lunch and rest areas**



BCA's Audit Findings

BCA's Audit Findings

Top non-compliances observed	Large Projects	Small Projects
A. Mismatch in entry records with approved workers list	35	85
B. SafeEntry (NRIC) not installed and used	37	91
C. Missing Safe Management Measures (SMM) Monitoring Plan on site	33	81
D. Inadequate no. of Safety Management Officer (SMO)/ Safe Distancing Officer (SDO)	9	43
E. Meals not individually packed	11	33
F. No isolated sick bay at site	40	N.A.

Data as of 20 Jul 2020

BCA's Audit Findings

A. Mismatch in entry records with approved workers list

Main reasons:

- SMO did not realise that workers were rejected
- Builder just submitted updated personnel list to BCA but hasn't been approved
- Builder added manpower to site to cope with worker shortfall but did not submit new list to BCA
- Builder submitted new manpower to BCA but did not include previous approved list of personnel
- SMO did not know that they/essential workers/SC/PRs/Sub-cons have to be included in the list

Builder/SMO must not deploy non-approved workers/personnel at site until they are approved by BCA to work at site

BCA's Audit Findings

A. Mismatch in entry records with approved workers list – Personnel list not updated

From: "BCA Covid19 (BCA)" <BCA_Covid19@bca.gov.sg>
Sent:
To:
Cc:
Subject: Application to resume works

Dear

RE: Application to resume works

Application No.:
Project Reference No.:
Project Title
Project Location:

We refer to your application to BCA to resume works by deploying the companies and workers listed in this permission for the Project at the Project Site received on Wed, 17 Jun 2020 03:24:16 PM("Application").

The Application has been **APPROVED** from the date of this email, subject to the terms and conditions below.

List of approved companies that may perform works for the Project at the Project Site:

UEN	Firm Names
-----	------------

Foreign workers holding S Passes or work permits may perform works at the Project Site, while waiting for arrangements to undergo a COVID-19 Swab test.

Workers who are residing in any dormitory are allowed to perform works at the Project Site, subject to that dormitory being cleared by the Inter-agency Task Force. MOM/ BCA will be arranging for swab tests for the workers.

Please submit the details of Singaporean and Singapore Permanent Residents (SC/PR) workers who work in construction site via the following FormSG link: <http://go.gov.sg/swab-sc-pr> to book for COVID-19 swab test. SC/PR/Employment Pass holders may perform works at the Project Site, while waiting for arrangements to undergo a COVID-19 Swab test.

You are required to update BCA on (a) the 3-monthly schedule of works for the Project (through <https://go.gov.sg/bca-additional-supporting-doc>) and (b) any change in manpower deployment or places of accommodation of workers permitted to work at the Project Site by submitting such changes through a submission of revised documents under the "Modification of Previously Approved Application" and quoting the Application reference number.

1. You shall ensure that the foreign employees listed in the list of workers above shall continue to stay at their places of residences and which are not gazetted as isolated dormitories as declared in the Application throughout the period when the foreign employees perform works for the Project at the Project Site.
2. You shall monitor the health of all workers closely (including recording body temperature twice a day) to ensure those who display COVID-19 symptoms are immediately isolated and provided medical attention.
3. You shall comply and ensure compliance with all prevailing legal and regulatory requirements when performing works for the Project.
4. You shall communicate to the workers listed in the Application whether they are approved or not approved to resume work for the Project at the Project Site.
5. You shall submit a daily report to BCA via the following FormSG link: <https://form.gov.sg/5ec3b02085d4c50011372dcf>
6. You shall, without delay, notify BCA after you are aware or made aware that any person on the Project Site is diagnosed with COVID-19 via the following FormSG link: <https://form.gov.sg/5ec748cd530c12001170e6e5>
7. You must take steps to ensure that your workers periodically undergo swab test to facilitate timely detection of the transmission of COVID-19 at the work site of these workers.
8. You shall ensure that your workers are cohorted in accordance with your workers' cohorting plan for accommodation as outlined in your Application.
9. You shall ensure all workers are provided dedicated transport to and from the Project Site and their accommodation.
10. Please ensure that all workers have downloaded the latest version of the TraceTogether app by 19 June, 5pm, as it is a requirement for the MOM AccessCode to turn / remain 'Green'.

This approval is granted based on the information that you have submitted in the Application. The Ministry of Trade & Industry, in consultation with the Building and Construction Authority, may, at any time, terminate this approval should any information provided for the purpose of the Application be found to be false or incorrect.

Regards,
Ministry of Trade & Industry in consultation with Building and Construction Authority

BCA's Audit Findings

A. Mismatch in entry records with approved workers list – Rejection of Workers

From: **BCA Covid19 (BCA)** <BCA_Covid19@bca.gov.sg>
Date: Thu, Jun 11, 2020 at 10:53 PM
Subject: Application to resume works
To:

Dear ,

RE: Application to resume works

Application No.:
Project Reference No.:
Project Title:
Project Location:

We refer to your application to BCA to resume works by deploying the companies and workers listed in this permission for the Project at the Project Site received on Sun, 07 Jun 2020 01:31:47 PM ("Application").

The Application has been **APPROVED** from the date of this email, subject to the terms and conditions below.

List of approved companies that may perform works for the Project at the Project Site:

UEN	Firm Names
-----	------------

Foreign workers holding S Passes or work permits may perform works at the Project Site, while waiting for arrangements to undergo a COVID-19 Swab test.

Workers who are residing in any dormitory are allowed to perform works at the Project Site, subject to that dormitory being cleared by the Inter-agency Task Force. MOM / BCA will be arranging for swab tests for the workers.

You are required to update BCA on (a) the 3-monthly schedule of works for the Project

(through <https://go.gov.sg/bca-additional-supporting-doc>) and (b) any change in manpower deployment or places of accommodation of workers permitted to work at the Project Site by submitting such changes through a submission of revised documents under the "Modification of Previously Approved Application" and quoting the Application reference number.

The following workers are not permitted to perform the works for the Project :
List of workers not approved (Invalid NRIC/FIN numbers)

FIN/NRIC No.	Employee Name
--------------	---------------

List of Construction Account workers not approved (incorrect UEN)

FIN No.	Employee Name
---------	---------------

1. You shall ensure that the foreign employees listed in the list of workers above shall continue to stay at their places of residences and which are not gazetted as isolated dormitories as declared in the Application throughout the period when the foreign employees perform works for the Project at the Project Site.
2. You shall monitor the health of all workers closely (including recording body temperature twice a day) to ensure those who display COVID-19 symptoms are immediately isolated and provided medical attention.
3. You shall comply and ensure compliance with all prevailing legal and regulatory requirements when performing works for the Project.
4. You shall communicate to the workers listed in the Application whether they are approved or not approved to resume work for the Project at the Project Site.
5. You shall submit a daily report to BCA via the following FormSG link: <https://form.gov.sg/Sec3b02085d4c50011372dcf>
6. You shall, without delay, notify BCA after you are aware or made aware that any person on the Project Site is diagnosed with COVID-19 via the following FormSG link:

7. You must take steps to ensure that your workers periodically undergo swab test to facilitate timely detection of the transmission of COVID-19 at the work site of these workers.
8. You shall ensure that your workers are cohorted in accordance with your workers' cohorting plan for accommodation as outlined in your Application.
9. You shall ensure all workers are provided dedicated transport to and from the Project Site and their accommodation.

This approval is granted based on the information that you have submitted in the Application. The Ministry of Trade & Industry, in consultation with the Building and Construction Authority, may, at any time, terminate this approval should any information provided for the purpose of the Application be found to be false or incorrect.

Regards,
Ministry of Trade & Industry in consultation with Building and Construction Authority

BCA's Audit Findings

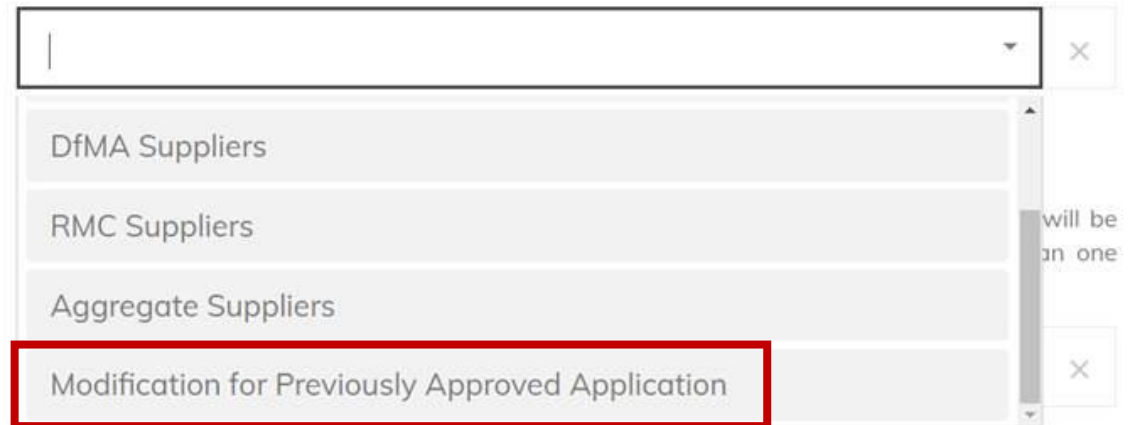
A. Mismatch in entry records with approved workers list – To update manpower list

For changes to manpower deployment/places of accommodation of workers permitted to work at the Project Site:

- Re-submit revised documents via Application to Restart Construction Works and Supply Works: <https://form.gov.sg/5eba5f01605dd2001180a1e1>
- Select "Modification for Previously Approved Application" under Submission Type
- Quote the previously approved application number (e.g. 5aef5631sfvosa)

1. Submission Type

For changes to manpower deployment or places of accommodation of workers at the Project Site/Supply Works Premise, for a previously approved application, please select the option "Modification for Previously Approved Application"



The screenshot shows a dropdown menu with the following options: DfMA Suppliers, RMC Suppliers, Aggregate Suppliers, and Modification for Previously Approved Application. The last option is highlighted with a red border. To the right of the menu, there is a vertical scrollbar and a partial view of another dropdown menu with the text "will be an one" and a close button (X).

BCA's Audit Findings

B. SafeEntry (NRIC Version) System not installed and used at site to manage entry/exit of all personnel entering the site

- Builder implemented a SafeEntry System (QR Code) instead
- To implement SafeEntry System (NRIC) as it is linked to MOM access code



SafeEntry

Use SafeEntry to check in and check out for contact tracing

Present barcode on photo ID for scanning

MOM-issued Visit Pass/Work Permit, Driving Licence, PAssion Card, TransitLink Concession Card, Pioneer Generation Card, Merdeka Generation Card

Remove your ID from its cover or case for easy scanning

Didn't bring your ID? You can still use SafeEntry

Barcode in SingPass Mobile

Register manually

Find this in the Profile tab

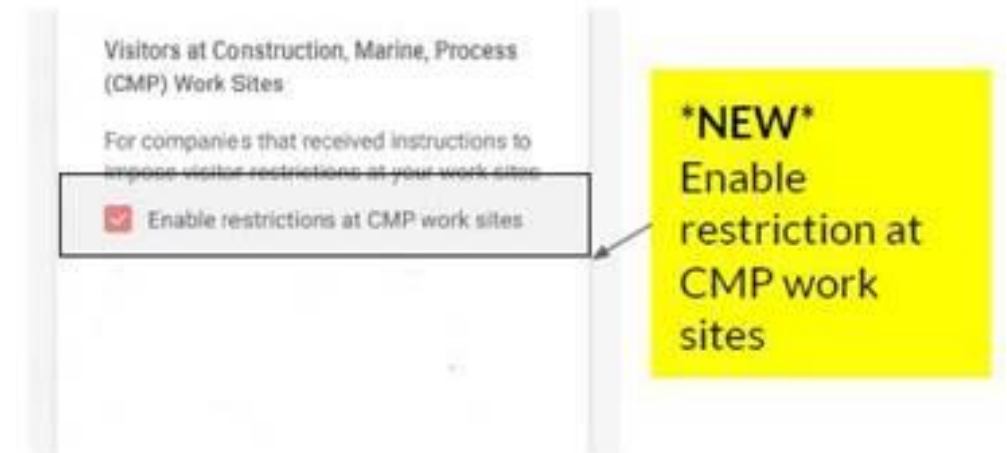
Let our staff know your NRIC no.

GOVTECH Thank you for doing your part in keeping Singapore safe!
Your personal data is protected. Only authorised public officers will have access to the data. Visit SafeEntry.gov.sg for more information. 22/05/2020

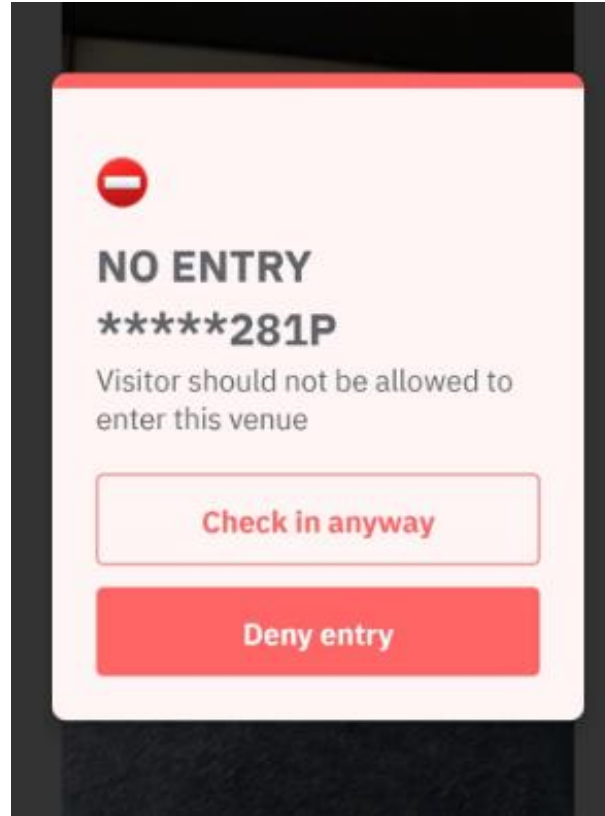
<https://www.safeentry.gov.sg/>

SafeEntry (NRIC) Version

- Builder must **enable restrictions for SafeEntry (NRIC) at worksite** to read the access code status of personnel entering the site to prevent unauthorised entry
 - SMOs can use SafeEntry (NRIC) scanner to check if restriction has been enabled. If scanner did not show access code colour, it means restriction is not enabled.
 - Refer to SafeEntry (NRIC) User Guide for Construction, Marine and Process (CMP) Work Sites



SafeEntry (NRIC) Version



NOTE

- **DO NOT ALLOW** any workers flagged as **RED** into site
- BCA will take actions against unauthorised entry

BCA's Audit Findings

C. Missing SMM monitoring plan on site to ensure compliance with Safe Management Measures

What to include in SMM Monitoring Plan:

- **Segregation plan** (different work zones for different team of workers) – *for large sites*
- **Cohorting plan for workers** (e.g. dedicated accommodation for workers from different teams to prevent mixing)
- **C+ and suspected cases control and management plan**
- **Site communication plan** to communicate SMM requirements to workers (e.g. briefing on SMM to site personnel/workers)
- **System to track non-compliance issues** to ensure that they are rectified without further delay
- **System to prevent SMM breaches** (e.g. not wearing mask, not practicing safe distancing, sharing of meals)

SMM Monitoring Plan

Evacuation Plan for Suspected case

SMO to put in place an evacuation plan for suspected cases, as well as for all other onsite personnel:

- a) Builder to provide adequate sick bays (in compliance with MOM's requirements) for timely segregation of suspected cases.
- b) Builder to convey worker to clinic as soon as possible.
- c) Any other employee who is feeling unwell or showing symptoms of illness to report to his employer, leave the workplace and consult a doctor immediately, even if symptoms may appear mild.
- d) Builder must track and record these cases as part of safe management measures.

SMM Monitoring Plan

Follow-up Plan for Confirmed Covid+ case

SMOs to put in place a follow-up plan in the event of a **confirmed case**:

- a) SMO to immediately vacate and cordon-off the immediate section of the workplace premises where the confirmed case worked.
- b) The team that the confirmed worker belongs to should be put into isolation.
- c) Builder to carry out a thorough cleaning and disinfect entire site, in accordance with NEA guidelines.
- d) Builder to inform BCA of any confirmed cases immediately

BCA's Audit Findings

D. Inadequate no. of Safety Management Officer (SMO)/Safe Distancing Officer (SDO)

- Total no. of workers ≤ 10 = 1 SMO;
- Total no. of workers > 10 but ≤ 50 = 1 SMO & 1 SDO
- Total no. of workers > 50 = at least 1 SMO & 1 SDO for every 50 workers)



SMO and SDO must be present on site at all times when works are being carried out. If the SMO/SDO cannot be on site (e.g. MC, on leave), there must be another SMO / SDO on-site to cover him/her.

BCA's Audit Findings

E. Meals not individually packed – cooking at site



- Builder to provide individually packed meals, and to remind workers not to share tableware and cutlery
- No cooking allowed on site

BCA's Audit Findings

F. No proper sick bay / No isolated sick bay at site



Sick bay within the office



Sick bay not fully enclosed

To provide a separate area within the work site as a sick bay that is fully enclosed for the isolation of suspected C+ personnel

BCA's Audit Findings

Workers with "Red" code found at site

MINISTRY OF MANPOWER

G000000D
ABC

VALID
Scanned on: 11 May 2020, 02:17PM

Cannot go out for work more >

Pass Type: Employment Pass

Pass Expires On: [blurred]

Employer: ABC ENGINEERING LIMITED

Occupation: CIVIL ENGINEER

DENY ENTRY to workers whose AccessCode is RED

G000000A
ABCDEFGH IJKLMNOP QRSTU
Scanned on: 11 May 2020, 02:17PM

My AccessCode

Cannot go out for work

- APPROVED TO START WORK**
Yes
- COVID-19 INFECTION**
Cleared
- STAY-HOME NOTICE**
No
- TRACETOGETHER**
Installed
- PLACE OF STAY**
Domitory/Block is not cleared yet

To know more about AccessCode : [Tap Here](#)

Accurate as of 11 May 2020, 02:17PM

G000000A
ABCDEFGH IJKLMNOP QRSTU
Scanned on: 11 May 2020, 02:17PM

My AccessCode



Cannot go out for work

- APPROVED TO START WORK**
No. [Learn more](#)
- COVID-19 INFECTION**
Cleared
- STAY-HOME NOTICE**
Yes
- TRACETOGETHER**
Installed
- PLACE OF STAY**
Domitory/Block is not cleared

To know more about AccessCode : [Tap Here](#)

Accurate as of 11 May 2020, 02:17PM

BCA's Audit Findings



G000000D
ABC

VALID
Scanned on: 11 May 2020, 02:17PM

Can go out for work more >

Pass Type	Employment Pass
Pass Expires On	31 Dec 2020
Employer	ABC ENGINEERING LIMITED
Pass Type	Employment Pass
Pass Expires On	31 Dec 2020
Employer	ABC ENGINEERING LIMITED
Occupation	CIVIL ENGINEER



G0000000A
ABCDEFGH IJKLMNOP QRSTU
Scanned on: 11 May 2020, 02:17PM

My AccessCode

 **Can go out for work**



APPROVED TO START WORK
Yes



COVID-19 INFECTION
Cleared



STAY-HOME NOTICE
No



TRACETOGETHER
Installed



PLACE OF STAY
Cleared

To know more about AccessCode : [Tap Here](#)

Accurate as of 11 May 2020, 02:17PM

Only allow workers whose Access Code is **GREEN** to work

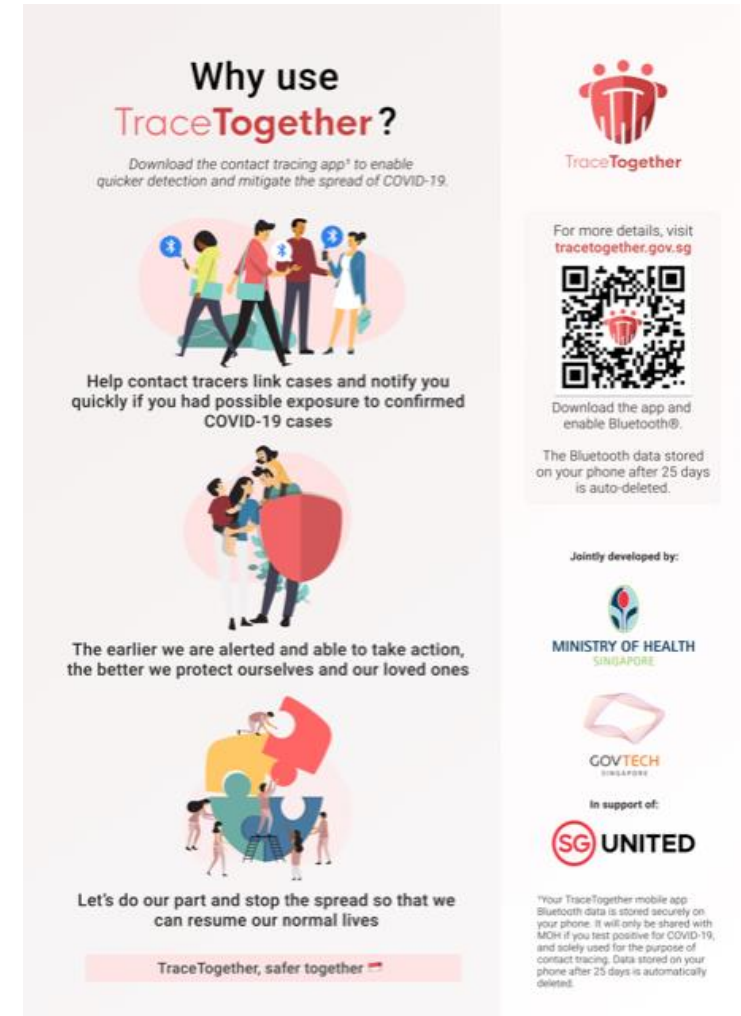
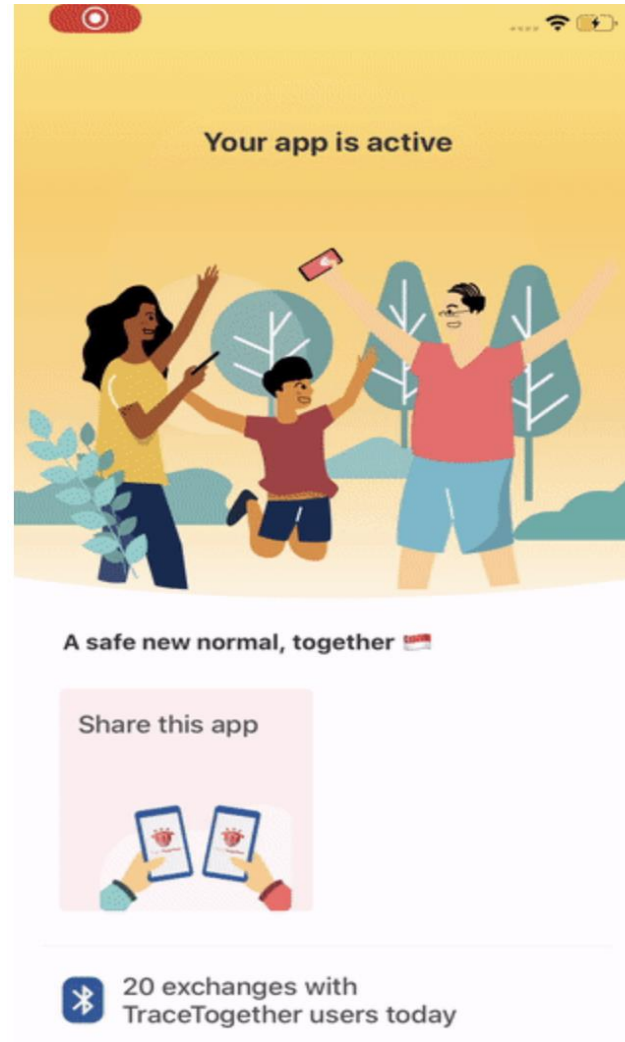
BCA's Audit Findings

TraceTogether App Not Installed

- Ensure workers have downloaded the latest version of the TT app (red version)



- Ensure workers **activates** the TT app at all times





Good Practices



Examples of Good Practices observed



Segregated entrances/exits for teams



Clear safe distancing measures & markings



Clear zoning plan & SMO/SDO details



Digital Scanning Temperature devices



SMM briefing to workers



Individually packed meals provided



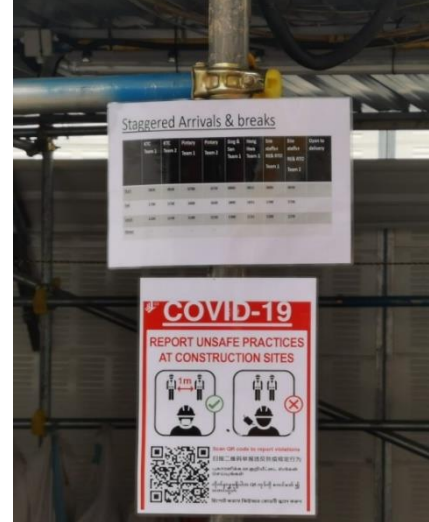
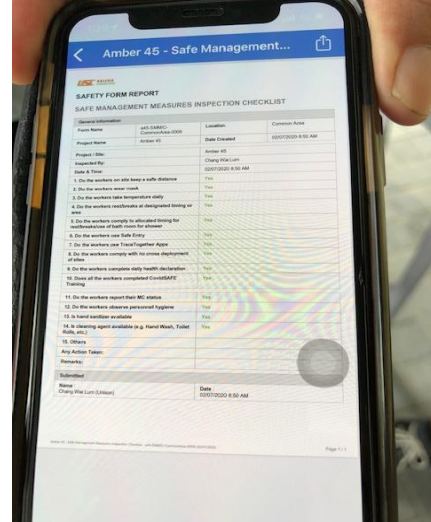
Examples of Good Practices observed

Leighton Asia - South East Asia Construction

STAGGERED BREAK TIME SCHEDULE
SHAFT - 01 (NS)

TEAM (NIGHT SHIFT)	TEA BREAK 1	LUNCH	TEA BREAK 2
A (Rest Area 2)	2130 - 2145	2315 - 0015	0245 - 0300
B (Rest Area 1)	2150 - 2205	2330 - 0030	0305 - 0325
C (Rest Area 2)	2215 - 2230	0030 - 0130	0330 - 0345
D (Rest Area 1)	2230 - 2245	0045 - 0145	0350 - 0405

USE AS



Stagger working hrs/rest breaks

SMO inspection checklist

BCA feedback poster

Segregated Zone



NRIC Safe Entry System using smart device

Visual Identifier via coloured armband, wristband



Non-Compliances



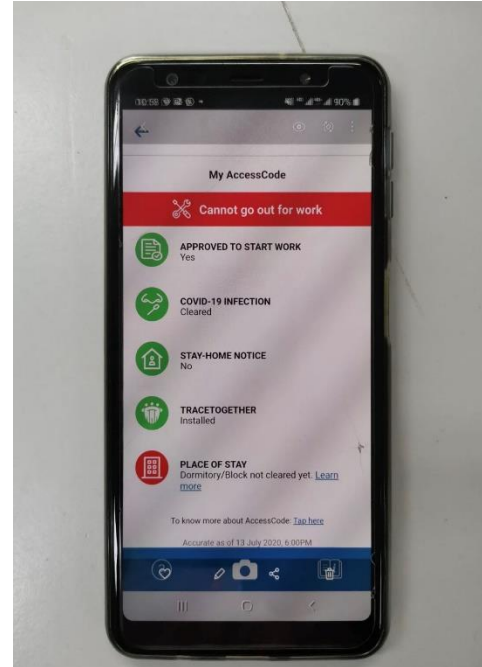
Examples of Non-Compliances



Workers not wearing mask



Unauthorised worker at site



Sick bay not fully enclosed or not provided

Cooking at on-site TLQ



BCA will take enforcement actions against work sites with non-compliances:-

- Stop Work Order (SWO), Safety Time-out
- Prosecution, Composition Fines, Stern Warning