ERL MAINTENANCE SUPPORT SDN BHD

Co. Reg. No. 199901023674 (498574-T)

E-MAS

Effective Railway Operations; Reliable System Maintenance

SYSTEMS (SYS) DEPARTMENT

TELECOMMUNICATION (TLE) TRAINING MODULE

Ref. No. E20.OME.M60000.SA.1001.A

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Release

	Name	Dept.	Date	Signature
Released:	Ham Mow Wai	Maintenance	03.01.2023	f
Checked:	Jayarajah Savarimuthu	Rolling Stock & Engineering	28.02.2023	
Checked:	Haryati Khalil	CEO Office	01.03.2023	
Checked:	Muhammad Azim Abdullah	CEO Office	01.03.2023	
Checked:	Anthony Arokianathan	Wayside	28.02.2023	f
Checked:	Noel Devan	Systems	28 Feb 2023	
Author:	Tengku Nadzuan	Systems	28.02.2023	
	Name	**Dept.**	**Date**	**Signature**

Amendments or additions to this procedure must be indicated with a vertical black line in the adjacent left margin.

Change Record and Configuration Control

A	21.01.23	Department Re-structuring (ELT & SIG merged into SYS) Incorporated all related documents into one sub department's document. G00.OMW.M12950.SA.1001.A	Tengku Nadzuan
Revision	**Date**	**Modification**	**Name**

Planning Of Changes Reference For Revision: E20.OME.M60000.SA.1001.A					
Issues To Consider	**Checked** *(Please mark X)*				**Remarks**
1) Are there any negative impact?	YES		NO	X	Not required. New document.
2) Will the integrity of QEMS be affected?	YES		NO	X	
3) Resources available?	YES	X	NO		
4) Allocation or relocation of responsibilities and authorities required?	YES		NO	X	

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1. Purpose

The purpose of this document is to be used as a guideline for SYS-TLE subdepartment trainer or his/her assignee to conduct internal trainings.

2. Scope, Distribution & Access

This document is intended to act as a guide and to serve as a reference point for department's trainers in identifying the relevant topics to be covered, source of training aids materials, and training evaluations documents to be used to conduct training.

Access to this procedure is limited to the SYSTEMS department only.

3. Objective

The objective of this module is to provide the trainer or assignee with a quick reference for conducting TLE subsystem training for maintenance team (SYS-TLE) and operations (OCC & other) personnel as and when required. This module will ensure all relevant topics are covered in uniformity during training even when conducted by different trainers.

For maintenance, the objectives of the training are to ensure that TLE personnel understand the technical specification of the subsystem, components, function and features. The hands-on exercise will provide the troubleshooting skills as to improve the corrective maintenance work. In addition, during the refresher training, recent failures and experiences will be shared between trainer and trainees. Upon completion of this training the trainees will be able to:

- Identify the TLE subsystem components.
- Understand the TLE subsystem functions & features.
- Troubleshoot TLE subsystem failures.
- Maintain the TLE subsystem as required by the O&M contract.
- Evaluated for competences

For operating, the objectives of the training are to ensure that the operation (OCC & other) personnel understand the TLE subsystem, components, function and features. Upon completion of this training the participants will be able to:

- Identify the TLE subsystem components, and controls
- Understand the TLE subsystem functions & features

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- Operate the TLE subsystem in a safe manner

4. Telecommunication Subsystem Guideline

All Telecommunication subsystem trainings are conducted based on the content of the O&M Manuals & As-Built Drawings.

4.1 Closed Circuit Television (CCTV) System

Refer to Closed Circuit Television (CCTV) System Training Guideline G00.OME.M60000.SH.1001*

4.2 Clock System

Refer to Clock System Training Guideline - G00.OME.M60000.SH.1002*

4.3 eXcellence in TRANsport (XTran) System

Refer to eXcellence in TRANsport (XTran) System Training Guideline - G00.OME.M60000.SH.1003*

4.4 PA System (Variodyn & AEX) System

Refer PA System (Variodyn & AEX) System Training Guideline - G00.OME.M60000.SH.1004*

4.5 PABX System

Refer to PABX System Training Guideline - G00.OME.M60000.SH.1005*

4.6 RADIO System

Refer to RADIO System Training Guideline - G00.OME.M60000.SH.1006*

4.7 SCADA System

Refer to SCADA System Training Guideline - G00.OME.M60000.SH.1007*

4.8 UPS System

Refer to UPS System Training Guideline - G00.OME.M60000.SH.1008*

4.9 ELID Card Access System

Refer to ELID Card Access System Training Guideline - G00.OME.M60000.SH.1009*

4.10 MOXA IP Transmission System

Refer to MOXA IP Transmission System Training Guideline - G00.OME.M60000.SH.1010*

* Indicates the latest version.