

HeartStart MRx Skills Checklist

This checklist assesses qualified medical personnel’s understanding of MRx operation after instructor-based training. Perform a quick skills assessment using the General Skills checklist below or a more extensive assessment using the Detailed Skills checklist starting on Page 2.

General Skills

DEMONSTRATES BASIC UNDERSTANDING OF:

Device controls, buttons, indicators, and connectors	<input type="checkbox"/> yes	<input type="checkbox"/> no	
ECG monitoring	<input type="checkbox"/> yes	<input type="checkbox"/> no	
SpO ₂ monitoring	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> n/a
EtCO ₂ monitoring	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> n/a
NBP monitoring	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> n/a
Invasive pressure monitoring	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> n/a
Temperature monitoring	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> n/a
Trending report	<input type="checkbox"/> yes	<input type="checkbox"/> no	
12-Lead acquisition	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> n/a
Data transmission	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> n/a
Works with data reports	<input type="checkbox"/> yes	<input type="checkbox"/> no	
Manual Defibrillation Mode	<input type="checkbox"/> yes	<input type="checkbox"/> no	
Synchronized cardioversion	<input type="checkbox"/> yes	<input type="checkbox"/> no	
AED Mode	<input type="checkbox"/> yes	<input type="checkbox"/> no	
Q-CPR	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> n/a
Noninvasive pacing	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> n/a
Intellivue networking	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> n/a
MRx maintenance	<input type="checkbox"/> yes	<input type="checkbox"/> no	

Student: _____

Educator Name: _____
(printed)

Educator Signature: _____ Date: _____

Detailed Skills

LOCATES:

RFU Indicator	<input type="checkbox"/> yes	<input type="checkbox"/> no
External Power Indicator	<input type="checkbox"/> yes	<input type="checkbox"/> no
Mark Event button	<input type="checkbox"/> yes	<input type="checkbox"/> no
Lead Select button	<input type="checkbox"/> yes	<input type="checkbox"/> no
Soft key buttons	<input type="checkbox"/> yes	<input type="checkbox"/> no
Summary button	<input type="checkbox"/> yes	<input type="checkbox"/> no
Alarm Pause button	<input type="checkbox"/> yes	<input type="checkbox"/> no
Menu Select button	<input type="checkbox"/> yes	<input type="checkbox"/> no
Navigation buttons	<input type="checkbox"/> yes	<input type="checkbox"/> no
Therapy Knob	<input type="checkbox"/> yes	<input type="checkbox"/> no
Charge button	<input type="checkbox"/> yes	<input type="checkbox"/> no
Shock button	<input type="checkbox"/> yes	<input type="checkbox"/> no
Sync button	<input type="checkbox"/> yes	<input type="checkbox"/> no
Print button	<input type="checkbox"/> yes	<input type="checkbox"/> no

IDENTIFIES INFORMATION DISPLAYED IN MONITOR MODE:

Mark Event button label	<input type="checkbox"/> yes	<input type="checkbox"/> no	
Date & Time	<input type="checkbox"/> yes	<input type="checkbox"/> no	
Battery icons	<input type="checkbox"/> yes	<input type="checkbox"/> no	
INOP & Alarm areas	<input type="checkbox"/> yes	<input type="checkbox"/> no	
Event timer	<input type="checkbox"/> yes	<input type="checkbox"/> no	
Heart rate	<input type="checkbox"/> yes	<input type="checkbox"/> no	
Wave sectors 1-4	<input type="checkbox"/> yes	<input type="checkbox"/> no	
Parameter blocks	<input type="checkbox"/> yes	<input type="checkbox"/> no	
Patient category	<input type="checkbox"/> yes	<input type="checkbox"/> no	
Patient name	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> n/a
12-Lead soft key	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> n/a
NBP soft key	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> n/a

INTERACTS WITH WAVES:

Changes lead and/or parameter waves displayed in Wave Sectors 1-4	<input type="checkbox"/> yes	<input type="checkbox"/> no
Changes waveform(s) printed in Wave Sector 2 (for 50mm printer) or Wave Sectors 2 and 3 (for 75mm printer)	<input type="checkbox"/> yes	<input type="checkbox"/> no

INTERACTS WITH ALARMS:

Differentiates function of audio pause versus alarm pause	<input type="checkbox"/> yes	<input type="checkbox"/> no
Identifies alarm pause duration message on the display	<input type="checkbox"/> yes	<input type="checkbox"/> no
Identifies alarm icon and status	<input type="checkbox"/> yes	<input type="checkbox"/> no
Identifies where alarms and inops are displayed	<input type="checkbox"/> yes	<input type="checkbox"/> no
Identifies the source of an alarm message	<input type="checkbox"/> yes	<input type="checkbox"/> no

MONITORS ECG:

Activates Monitor Mode	<input type="checkbox"/> yes	<input type="checkbox"/> no
Connects an ECG cable	<input type="checkbox"/> yes	<input type="checkbox"/> no
Selects desired lead in wave sector 1	<input type="checkbox"/> yes	<input type="checkbox"/> no
Changes the ECG size in wave sector 1	<input type="checkbox"/> yes	<input type="checkbox"/> no
Identifies alarm settings and status of alarms (on or off)	<input type="checkbox"/> yes	<input type="checkbox"/> no
Acknowledges alarms using Menu Select and Navigation buttons	<input type="checkbox"/> yes	<input type="checkbox"/> no
Changes HR alarm limits	<input type="checkbox"/> yes	<input type="checkbox"/> no
Changes VTACH alarm limits	<input type="checkbox"/> yes	<input type="checkbox"/> no
Displays an annotated ECG	<input type="checkbox"/> yes	<input type="checkbox"/> no
Initiates arrhythmia relearning	<input type="checkbox"/> yes	<input type="checkbox"/> no

MONITORS SpO₂:

Connects the SpO ₂ cable	<input type="checkbox"/> yes	<input type="checkbox"/> no
Identifies SpO ₂ and pulse rate values on the display	<input type="checkbox"/> yes	<input type="checkbox"/> no
Identifies SpO ₂ and pulse alarm settings on the display	<input type="checkbox"/> yes	<input type="checkbox"/> no
Identifies the pleth wave	<input type="checkbox"/> yes	<input type="checkbox"/> no

Option **not available**

MONITORS EtCO₂:

Attaches FilterLine tubing to EtCO ₂ inlet port	<input type="checkbox"/> yes	<input type="checkbox"/> no
Identifies the EtCO ₂ and AwRR values on the display	<input type="checkbox"/> yes	<input type="checkbox"/> no
Changes the apnea alarm	<input type="checkbox"/> yes	<input type="checkbox"/> no
Displays the EtCO ₂ waveform in a wave sector	<input type="checkbox"/> yes	<input type="checkbox"/> no

Option **not available**

MONITORS NONINVASIVE BLOOD PRESSURE:

Option **not available**

- | | | |
|---|------------------------------|-----------------------------|
| Attaches cuff to NBP tubing | <input type="checkbox"/> yes | <input type="checkbox"/> no |
| Connects the NBP tubing to the MRx | <input type="checkbox"/> yes | <input type="checkbox"/> no |
| Applies the appropriate cuff size | <input type="checkbox"/> yes | <input type="checkbox"/> no |
| Initiates a manual measurement | <input type="checkbox"/> yes | <input type="checkbox"/> no |
| States the NBP reading and alarm settings (as displayed) | <input type="checkbox"/> yes | <input type="checkbox"/> no |
| Changes alarm parameter from the default | <input type="checkbox"/> yes | <input type="checkbox"/> no |
| States the current NPB schedule (as displayed) | <input type="checkbox"/> yes | <input type="checkbox"/> no |
| Changes the NPB schedule | <input type="checkbox"/> yes | <input type="checkbox"/> no |
| Identifies minute interval that NBP values are removed from the display if no subsequent measurements are taken | <input type="checkbox"/> yes | <input type="checkbox"/> no |

MONITORS INVASIVE PRESSURE:

Option **not available**

- | | | |
|--|------------------------------|-----------------------------|
| Connects the pressure cable(s) to the transducer | <input type="checkbox"/> yes | <input type="checkbox"/> no |
| Connects the pressure cable(s) to the MRx | <input type="checkbox"/> yes | <input type="checkbox"/> no |
| Selects the pressure(s) to monitor and appropriate label and wave scale | <input type="checkbox"/> yes | <input type="checkbox"/> no |
| Identifies two ways to zero a pressure channel | <input type="checkbox"/> yes | <input type="checkbox"/> no |
| Identifies the pressure measurements, waveforms, and alarm settings (as displayed) | <input type="checkbox"/> yes | <input type="checkbox"/> no |
| Changes the alarm source | <input type="checkbox"/> yes | <input type="checkbox"/> no |
| Changes the pulse source to an existing pressure | <input type="checkbox"/> yes | <input type="checkbox"/> no |

MONITORS TEMPERATURE:

Option **not available**

- | | | |
|--|------------------------------|-----------------------------|
| Connects the temperature cable to the MRx | <input type="checkbox"/> yes | <input type="checkbox"/> no |
| Selects a temperature label to monitor | <input type="checkbox"/> yes | <input type="checkbox"/> no |
| Identifies the temperature reading and alarm settings (as displayed) | <input type="checkbox"/> yes | <input type="checkbox"/> no |
| Changes the alarm limits | <input type="checkbox"/> yes | <input type="checkbox"/> no |

INTERACTS WITH VITAL SIGNS TRENDING REPORT:

Option **not available**

- Displays vital signs trending report yes no
- Identifies various report contents (e.g., vitals monitored, units of measure, time intervals, etc.) yes no
- Scrolls through report yes no
- Changes trend time interval yes no
- Prints a copy of the trending report yes no

ACQUIRES A 12-LEAD ECG:

Option **not available**

- Connects a 10-lead patient cable yes no
- Accesses the 12-lead function yes no
- Acquires a 12-lead ECG yes no
- Acquires a 12-lead ECG with ACI-TIPI analysis yes no n/a
- Acquires a 12-lead ECG with ACI-TIPI and TPI analysis yes no n/a
- Prints a copy of the 12-lead ECG yes no

TRANSMITS DATA REPORTS:

Options **not available**

Bluetooth transmission

n/a

- Sets up transmission by adding and pairing a Bluetooth device with the MRx, and changing the Bluetooth device profile, as needed yes no
- Transmits a 12-lead ECG or Event Summary to receiving destination yes no
- Transmits PCDT to appropriate destination yes no

Wireless Link transmission

n/a

- Ensures Wireless Link device is properly connected and identifies device indicators yes no
- Transmits a 12-lead ECG or Event Summary to receiving destination yes no
- Transmits PCDT to an appropriate destination yes no

Batch LAN data transfer

n/a

- | | | |
|--|------------------------------|-----------------------------|
| Sets up transfer with appropriate cable connection | <input type="checkbox"/> yes | <input type="checkbox"/> no |
| Confirms Data Messenger is running | <input type="checkbox"/> yes | <input type="checkbox"/> no |
| Transfers an event summary | <input type="checkbox"/> yes | <input type="checkbox"/> no |

WORKS WITH MRx DATA:

- | | | |
|---|------------------------------|-----------------------------|
| Copies event data to external data card | <input type="checkbox"/> yes | <input type="checkbox"/> no |
| Views and erases external data card | <input type="checkbox"/> yes | <input type="checkbox"/> no |
| Prints various data reports during an event | <input type="checkbox"/> yes | <input type="checkbox"/> no |
| Prints an Event Summary, Trends, and/or specific 12-Lead Report in Data Management Mode | <input type="checkbox"/> yes | <input type="checkbox"/> no |
| Marks an event | <input type="checkbox"/> yes | <input type="checkbox"/> no |

DEMONSTRATES MANUAL MODE:

- | | | |
|--|------------------------------|-----------------------------|
| Identifies the type of waveform produced by MRx as low-energy biphasic | <input type="checkbox"/> yes | <input type="checkbox"/> no |
| States recommended energy setting for adult defibrillation | <input type="checkbox"/> yes | <input type="checkbox"/> no |
| Applies multifunction electrode pads in correct position | <input type="checkbox"/> yes | <input type="checkbox"/> no |
| Connects a therapy cable | <input type="checkbox"/> yes | <input type="checkbox"/> no |
| Selects the desired energy | <input type="checkbox"/> yes | <input type="checkbox"/> no |
| Locates the Shock Status area and identified selected energy and number of shocks delivered | <input type="checkbox"/> yes | <input type="checkbox"/> no |
| Charges the defibrillator | <input type="checkbox"/> yes | <input type="checkbox"/> no |
| Identifies the disarm soft key | <input type="checkbox"/> yes | <input type="checkbox"/> no |
| Delivers a shock | <input type="checkbox"/> yes | <input type="checkbox"/> no |
| Turns on and off the Sync function | <input type="checkbox"/> yes | <input type="checkbox"/> no |
| Identifies R-wave markers | <input type="checkbox"/> yes | <input type="checkbox"/> no |
| For synchronized cardioversion, states the shock button must be held until the energy is delivered | <input type="checkbox"/> yes | <input type="checkbox"/> no |
| Uses navigation buttons to increase or decrease energy settings 10J or less | <input type="checkbox"/> yes | <input type="checkbox"/> no |
| Locates pediatric paddles | <input type="checkbox"/> yes | <input type="checkbox"/> no |
| Reactivates alarms | <input type="checkbox"/> yes | <input type="checkbox"/> no |

DEMONSTRATES AED MODE:

Identifies patient criteria for AED use	<input type="checkbox"/> yes	<input type="checkbox"/> no
Connects the pads therapy cable	<input type="checkbox"/> yes	<input type="checkbox"/> no
Applies multifunction electrode pads in correct position	<input type="checkbox"/> yes	<input type="checkbox"/> no
Activates AED Mode	<input type="checkbox"/> yes	<input type="checkbox"/> no
Follows prompts	<input type="checkbox"/> yes	<input type="checkbox"/> no
Delivers a shock when prompted	<input type="checkbox"/> yes	<input type="checkbox"/> no

DEMONSTRATES Q-CPR IN MANUAL MODE:

Connects the Pads/CPR cable	<input type="checkbox"/> yes	<input type="checkbox"/> no
Connects the CPR meter (or compression sensor)	<input type="checkbox"/> yes	<input type="checkbox"/> no
Connects the CPR meter (or compression sensor) adhesive pad	<input type="checkbox"/> yes	<input type="checkbox"/> no
Applies multifunction electrode pads in correct position	<input type="checkbox"/> yes	<input type="checkbox"/> no
Applies the CPR meter (or compression sensor) in correct position	<input type="checkbox"/> yes	<input type="checkbox"/> no
Identifies the Start CPR and Stop CPR soft keys	<input type="checkbox"/> yes	<input type="checkbox"/> no
Activates Q-CPR	<input type="checkbox"/> yes	<input type="checkbox"/> no
Performs compressions using the CPR meter (or compression sensor)	<input type="checkbox"/> yes	<input type="checkbox"/> no
Performs ventilations	<input type="checkbox"/> yes	<input type="checkbox"/> no
Identifies compression, No Flow Time, and ventilation values on the MRx display	<input type="checkbox"/> yes	<input type="checkbox"/> no
Identifies the compression and/or invasive pressure waveform	<input type="checkbox"/> yes	<input type="checkbox"/> no
Identifies ventilation detection icon	<input type="checkbox"/> yes	<input type="checkbox"/> no
Identifies audio feedback prompts	<input type="checkbox"/> yes	<input type="checkbox"/> no
Identifies CPR meter display data	<input type="checkbox"/> yes	<input type="checkbox"/> no
Deactivates Q-CPR	<input type="checkbox"/> yes	<input type="checkbox"/> no

Option **not available**

n/a

DEMONSTRATES Q-CPR IN AED MODE:

Option **not available**

Connects the Pads/CPR cable yes no

Connects the CPR meter (or compression sensor) yes no

Connects the CPR meter (or compression sensor) adhesive pad yes no

Applies multifunction electrode pads in correct position yes no

Applies the CPR meter (or compression sensor) in correct position yes no

Identifies the Pause for CPR soft key yes no

Basic CPR View

n/a

Activates Q-CPR yes no

Performs compressions using the CPR meter (or compression sensor) yes no

Performs ventilations yes no

Identifies text feedback prompts on the display yes no

Identifies audio feedback prompts yes no

Identifies CPR meter display data yes no

n/a

Advanced CPR View

n/a

Activates Q-CPR yes no

Performs compressions using the CPR meter (or compression sensor) yes no

Performs ventilations yes no

Identifies compression, No Flow Time, and ventilation values on the MRx display yes no

Identifies the compression waveform yes no

Identifies ventilation detection icon yes no

Identifies audio feedback prompts yes no

Identifies CPR meter display data yes no

n/a

DEMONSTRATES PACING FUNCTION: Option **not available**

- | | | |
|--|------------------------------|-----------------------------|
| States when paced pulses are delivered in demand mode versus in fixed mode | <input type="checkbox"/> yes | <input type="checkbox"/> no |
| If A/P pad position is chosen when using Philips pads, identifies the sternal pad as the posterior pad | <input type="checkbox"/> yes | <input type="checkbox"/> no |
| Applies multifunction electrode pads in correct position | <input type="checkbox"/> yes | <input type="checkbox"/> no |
| Connects the appropriate cables for demand mode pacing | <input type="checkbox"/> yes | <input type="checkbox"/> no |
| States criteria for selecting a lead | <input type="checkbox"/> yes | <input type="checkbox"/> no |
| Activates Pacing Mode | <input type="checkbox"/> yes | <input type="checkbox"/> no |
| Identifies R-wave markers and states where they should appear | <input type="checkbox"/> yes | <input type="checkbox"/> no |
| Identifies white pacing markers | <input type="checkbox"/> yes | <input type="checkbox"/> no |
| Able to increase and decrease pacer output and rate to obtain capture | <input type="checkbox"/> yes | <input type="checkbox"/> no |
| Verifies peripheral pulse at capture | <input type="checkbox"/> yes | <input type="checkbox"/> no |
| Locates area of display where pacing on battery message is shown (when applicable) | <input type="checkbox"/> yes | <input type="checkbox"/> no |

DEMONSTRATES INTELLIVUE NETWORKING: Option **not available**

- | | | |
|---|------------------------------|-----------------------------|
| Identifies IntelliVue Networking display data (including wired and wireless icons) | <input type="checkbox"/> yes | <input type="checkbox"/> no |
| Identifies how to connect the MRx to the IntelliVue Network for wired and wireless configurations | <input type="checkbox"/> yes | <input type="checkbox"/> no |
| Admit, discharge, and transfer a patient to and/or from the IntelliVue Information Center and MRx | <input type="checkbox"/> yes | <input type="checkbox"/> no |
| Identifies data and information MRx shares with the IntelliVue Information Center | <input type="checkbox"/> yes | <input type="checkbox"/> no |

MAINTAINS THE MRx:

Completes the shift checklist	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> n/a
Completes a weekly shock test	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> n/a
Runs an Operational Check with the appropriate accessories and responds when prompted	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> n/a
States the procedure for charging batteries	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> n/a
Inserts paper into the printer	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> n/a
Describes the RFU status that indicates the MRx is ready for use	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> n/a
Describes the other RFU statuses and the action(s) required	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> n/a
States acceptable MRx cleaning solutions	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> n/a

Student: _____

Educator Name: _____
(printed)

Educator Signature: _____ Date: _____

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