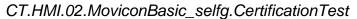
Certification Test





Student Name:	
Company Name:	
Address:	
Phone:	
Email:	
Test Date:	

The following HMI operation checklist is to be verified by Yaskawa Technical Training Services

User Management / General

- 1. No "file" menu or scroll bars on smartPanel HMI (status bar is optional)
- 2. Name and organization in header
- 3. Image in header
- 4. Cannot navigate to Setup screen unless logged on as user "en1"
- 5. Log on as "en1" and navigate to setup screen, use Low PE button
- Active User Name is displayed
- 7. Log off and setup screen controls do not work

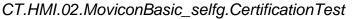
Setup Screen

- 8. IP address displays
- 9. With servos off, use Write Servo Drive Parameters. Reboot Required indicator lights
- 10. Use Reboot Request switch (or hold Reboot Required indicator)
- 11. Close HMI project with button and relaunch using VipaStartUp

Control Panel

- 12. Mode indicator updates for each of the 5 main screens
- 13. Start button appears only in Production mode
- 14. Servos turn on/ status on
- 15. Position feedback for each axis with 2 digits after decimal
- 16. With Cycles=1 and default move parameters, press Reset then Start. Verify start button illuminates for duration of motion

Certification Test





Jog-Zero Screen

- 17. Jog buttons function and are impulsive
- 18. One decimal place for Vel with unit mm/s
- 19. Thousands separator on Accel/Decel with unit mm/s2
- 20. Range reasonable for Vel, Acc Dec (enter -1 and error displays range)
- 21. Spin reasonable for Vel (10), Acc Dec (100)
- 22. Set Zero button functions and impulsive
- 23. Set Zero OK and Position Valid illuminated for all axes

Auto Screen / Symbols

- 24. Cycles, Complete, and Remaining have suitable format and correct function
- 25. Velocity and Acc/Dec have suitable decimal point and min/max
- 26. Pos X,Y,Z with reasonable range including negative values
- 27. Delay displays correctly with unit as ms or sec
- 28. Symbols represent the machine layout. Animation is optional.
- 29. Motor feedback symbol displayed on a popup window

Recipe Screen

- 30. Save a "default" recipe with 1 cycle and default velocity, Acc/Dec, PosXYZ
- 31. Save a "fast" recipe with about 10x higher cycles, velocity, Acc/Dec and PosXYZ.
- 32. Run the "fast" recipe to confirm motion is affected.
- 33. Confirm function of Stop button during motion
- 34. Export each recipe to CSV
- 35. Delete all recipes then import from CSV and save again
- 36. Select and activate each recipe

Alarm

- 37. Produce "start pressed with zero cycles remaining" alarm
- 38. Alarm indicator turns on with alarm
- 39. Create alarm A.D00 on each axis X, Y, and Z
- 40. Clear servo axis alarm using the button in Setup screen
- 41. Alarm message text displays correctly
- 42. Display alarm history during active alarm
- 43. Reset all alarms with ACK-RESET in the Alarm Screen

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Total Score:	Instructor Signature:	
1 Otal Ocolo	1113tractor Olgriatare	_