

Mechatronics Technician Practical EXAM Part 1 & 2 Endress + Hauser

Practice day, Equipment Set up and check:

Date: June 15

Time: 1pm-3pm

Location: Endress + Hauser, 2330 Endress Place Greenwood, IN 46143

Room: Contact at check in – Robert Head

- **June 15th** – From 1pm to 3pm apprentices taking the practical exam at E+H should set up equipment and have the GACC representative on site do a pre-check of equipment set up to ensure equipment status is ready for testing June 16th

Additional resources that should be brought to and used during the practical exam:

- Non-communicable, non-programmable, battery-operated calculator with trig capabilities – a basic calculator will be available in the test platform
- Blue Mechanical and Metal Trades Handbook and Red Electrical Engineering Handbook
- A collection of formulas (one single-sided 3x5 index card of formulas that you believe might be necessary during the exam such as feeds and speeds, force...etc)
- Pen, Pencil and Drawing tools
- Part 1 - Clean hard copy of your yellow preparation documentation
- Part 2 – binder with updated yellow documentation and other relevant docs – to be checked by exam board.

NO PHONES Allowed during testing

TEST DATE and TIME info:

Date: June 16

Time: MT **Part 1 8am** or **Part 2 8:15am** start - please arrive 30 min before start to check-in

Location: Endress + Hauser, 2300 Endress Place Greenwood, IN 46143

Room: Contact at check in – Robert Head

First Name	Last Name	Company	Practical Start
Jake	Killough	Endress+Hauser Inc	Tues. June 16 @ 8am ET
Kenneth	Wrede	Endress+Hauser Inc	Tues. June 16 @ 8am ET
Ivan	Bondar	Endress+Hauser Inc	Tues. June 16 @ 8:15am ET

Practical Exam Agenda continued on next page...

PRACTICAL EXAM AGENDAS

MT Practical Exam [Part 1](#) and [Part 2](#) Agenda – [Part 1, \(6.5 hours\)](#) or [Part 2 \(6 hours\)](#). Please arrive at least 30 minutes prior to your official start time to double check your equipment is still in a ready state.

- 7:00am** Set up – final preparation for apprentices and equipment check
- 7:45 am** **Part 1 and Part 2** sign in, apprentice final check and prep of equipment
Part 2 Apprentices must have their exam binders and be prepared to show and save your PLC program as a PDF to send to GACC representative on site. The Exam Board will check your binders once more before you begin.
- 8:00 am** **Part 1 Drafting Instructions** provided - apprentices receive the drafting assignment
- ~8:15am** **Part 1 Start of Drafting** – approx. 30 min. Each apprentice will have a supplied timer. The amount of time you take to complete your drafting will be deducted from your total 6.5 hours. Drafting must be turned in before instructions continue for the work assignment
- 8:15 am** **Part 2 - Instructions** provided - apprentices receive their work assignment for the day.
- 8:30 am** **Part 2 - START** of 6-hour practical task. Each apprentice will have a supplied timer.
- ~8:45am** **Part 1 Start instructions of Work Assignment** – entire work assignment packet distributed
- ~9:00am** **Part 1 START of 6 hour (remaining time) practical task** – At any point during this time the exam board will ask you technical questions related to your project. This is part of the “technical discussion” portion of your exam. Exam board will deduct or add time for Part 1 apprentices depending on the amount of drafting time that was used.
- ~12:00pm** **45-minute lunch break** determined by exam board. All break at the same time.
- ~12:45pm** **Resume exam** (*remember to expect to need 1-2 hours of your exam time for commissioning. Commissioning is crucial. Even if you are not able to complete the entire mechatronics assembly and get it up and running as hoped, complete a commissioning in “as is” condition with the exam board!*) Your exam time will be stopped should an Exam Board member not be available to walk through the commissioning of your system with you and you must wait.
- ~3:15pm** **Part 2** expected end time, timers will hold official end time - Apprentices finish, unless your time was stopped due to limited exam board resources available, in that case you will have time remaining. *Once an apprentice is finished and equipment checked by the exam board, the apprentice will be instructed to return their equipment to yellow level (if it is going to be reused) removing machined and/or assembled mechanical parts for exam board inspection. Do not leave until an Exam Board member has dismissed you. Plan for as late as 5:30pm.*
- ~3:45pm** **Part 1 Exam end** expected end time, timers will hold official end time - Apprentices finish, clean up, unless your time was stopped due to limited exam board resources available, in that case you will have time remaining. *Once an apprentice is finished and equipment checked by the exam board, the apprentice will be instructed to return their equipment to yellow level (if it is going to be reused) removing machined and/or assembled mechanical parts for exam board inspection. Do not leave until an Exam Board member has dismissed you. Plan for as late as 5:30pm.*
- ~5:45 pm** **Exam board wrap-up evaluations**

