

Power Generation Maintenance Electrician PGME50

Updated November 2024

Focus Statement

A Power Generation Maintenance Electrician must be able to safely use hand, power, and electrical tools, as well as electrical test equipment and PPE according to regulatory and industry standards; interpret job specifications and industrial drawings; install, connect, troubleshoot and maintain power generation, distribution, and utilization systems and components; install raceway and cable distribution systems; and install and connect transformers and troubleshoot PLCs.

Overview

- Two-hour closed-book examination
- May use a basic function, non-printing calculator
- No extra papers, books, notes or study materials are allowed

Minimum passing score is 75.

Performance Verification

A corresponding hands-on Performance Verification is available.

NCCER Curriculum

All NCCER knowledge assessments are referenced to NCCER's curriculum modules as listed on this specification sheet. This assessment is referenced to NCCER's 1st edition of the Power Generation Maintenance Electrician curriculum. You may order books and modules from Pearson by visiting www.nccer.org/order-books-modules/

Assessment Development

All questions are developed and approved by subject matter experts under the direction of NCCER.

Credentials

Upon successful completion of the knowledge assessment or performance verification, credentials can be viewed and printed by the individual or assessment program through their NCCER Account.

Score Report and Training Prescription

Each candidate will have online access to their assessment results including their overall score and recommended training through their NCCER Account.

Written Assessment Contents:

Module ID	Content Domain/Module Title	Number of Items
40212 40213 40307 40311 40312	Conductors	10
40106 40203 40204 40205	Electrical Theory	12

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Written Assessment Contents:

Module ID	Content Domain/Module Title	Number of Items
26501 40201 40208 40308	Personnel Safety	10
26410 32401 40113 50401	System Maintenance	9
26209 26210 26211 32401 40301	System Safety	7
26211 40312 40409	Controls	4
40401 50301	Power Plant Systems	6
40305 40306 50402	Power Plant Equipment	11
26411 40103	Wiring Methods and Materials	5
26202 26407 40313	Motor Maintenance	8

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Written Assessment Contents:

Module ID	Content Domain/Module Title	Number of Items
26303 40105 40301 40303	Troubleshooting	6

Total Number of Items

88