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Basic Diagnostic Certification

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Basic Diagnostic Certification (BDC)

OBJECTIVES

After completion of this module you will be able to:

- Know the proper use of the 3G equipment, such as test plan procedures as per the ISID/ISTA and basic circuit checks using the IMIB as instructed by the test plan.

- Properly set up a vehicle for programming using ISTA-P and pulling up a measures plan.

- Utilize all of the available databases in BMW's 3G and web-based Information System. This way the Technician will be able to research the necessary data so they can understand a given system and thus be able to diagnose it even if they haven't been trained on such system.

Basic Diagnostic Certification Process

Purpose of the BDC

The ST050 certification process is broken down into 3 primary areas based on the skills the technician should know upon successful completion of the four (4) day instructor led class. These skills include:

1. Know the proper use of the 3G equipment, such as test plan procedures as per the ISID/ISTA and basic circuit checks using the IMIB as instructed by the test plan.
2. Properly set up a vehicle for programming using ISTA-P and pulling up a measures plan.
3. Utilize all of the available databases in BMW's 3G and web-based Information System. This way the Technician will be able to research the necessary data so they can understand a given system and thus be able to diagnose it even if they haven't been trained on such system.

The technician will be assessed in all three areas and will be required to perform proficiently in all three (3) areas in order to receive credit for the ST050 Instructor led class.

Process

The certification process will be conducted in 3 parts as follows:

1. One Diagnostic exercise with a live vehicle, applicable 3G equipment, and necessary tools for diagnosis.
2. A two (2) part programming exercise which will include a live vehicle, applicable 3G equipment, and a workshop PC.
3. One information resources research project where the technician will look up applicable information on an instructor designated system on a specific vehicle. The technician will use this information to answer a 20 question assessment on this particular system.

Diagnostic Exercise

The diagnostic exercise will be conducted in a 50 minute session and it is designed around a simple fault that will be installed by the instructor. The goal is to evaluate if the technician can successfully hook up the diagnostic equipment, pull up the recommended test plans and follow the instructions of such test plans. It should also take the very basic recommended diagnostic checks via the IMIB and isolate the problem.

The faults are of the most basic in nature and do not require extensive knowledge of the system being tested and the test plan should lead the technician to a definitive answer of the cause of the issue. The goal here as well is to see if the technician can properly implement the 5 steps to a diagnostic plan.

Programming Exercise

The programming exercise will be conducted in two (2) 25 minute parts.

PART 1: The technician will be asked to completely setup a vehicle with necessary equipment for programming a vehicle with ISTA-P and to pull up a measures plan.

PART 2: The technician will be given a programming questionnaire with 10 questions about programming and coding procedures. The technician will have access to his ST050 research manual to answer these questions

Information Resources Research Project

During the “Features and Technology” and “Service and Maintenance” sections of the instructor led class, the technicians will be introduced to some of BMW’s core technologies and some basic tasks such as KOMBI tests and emergency top procedures. Back at the dealer these entry level technicians will be called on to perform work on systems that they haven’t had prior training on. In essence the technician will have to be able to utilize BMW’s 3G and web-based information systems to gain background information to successfully work on an unfamiliar system.

In the information resources research project a technician will be assigned a specific system on a specific vehicle in which they will have 3 hours during the testing sessions to pull necessary background information to complete a 20 question assessment: Technical Training, Repair Instructions, Service Information Bulletins, SBT’s, ETM’s, etc. Unless otherwise specified, the technician will not only have to write down correct answer to each question, but also give the reference material document where the information was found.