



## **EMCAP control system for NDT**

The EMCAP system is a software control system for NDT processes in Engineering. It is designed to offer full process control, including management of personnel, equipment and calibrations. All checks, qualifications, calibrations and equipment details can be entered directly into the system, and a full record and history is kept for your NDT processes.

The system is of modular design, so only the required options need to be purchased. The first module to be offered deals with Penetrant Inspection, and a module for MPI (Magnetic Particle Inspection) will follow shortly. Other modules available later will include a "Technique" module and a "Job" module.

The EMCAP system has been specifically designed to follow current process control methods, and in particular follows both the NADCAP baseline and the more specific prime requirements. It is possible to configure the system to ensure these procedures are properly followed, checking compliance and keeping a full history. It will also notify of upcoming calibration or personnel conformance requirements.

## **Benefits of the EMCAP system**

Rather than waiting for a manager or an auditor to find problems or potential issues, the EMCAP system constantly monitors the status of the NDT facility and reports any problems to the management or appropriate NDT level 3. Properly set up and used, the EMCAP system will ensure that all your process requirements are properly followed, and in this way it should help prevent any potential NADCAP non-conformances. In particular, it can keep track of and continuously monitor your process, and should help to ensure full conformance and eliminate potential audit issues, saving both time and money.

### **Penetrant Process Control**

The EMCAP system has the necessary penetrant control checks built into the system to ensure conformance to the NADCAP baseline and also the additional prime requirements. Once your penetrant lines are set up and these checks configured, (usually with the aid of an EMCAP engineer), EMCAP will automatically generate internal Penetrant process documents detailing the check information entered in the system. EMCAP then enforces these requirements on a continuous basis to ensure conformance with internal process documentation.

Issues and problems are automatically detected and these reports are then available to the appropriate designated individuals, meaning that less time needs to be spent actually looking for problems, and issues are less likely to be missed.

The system stores all control check information entered into it, and this can be reviewed at any time by a level 3. This may be done from anywhere where there is access to the EMCAP computer system, so for example a Level 3 in the UK could monitor the daily penetrant checks done by a level 2 in Spain providing they use or have access the same system.

### **Personnel Control**

The EMCAP system keeps a record of all penetrant personnel and stores all the necessary requirements for an individual to be authorised to carry out NDT work. When an issue or potential issue detected, (for example an eye test about to expire), the system will both the individual (providing they use the system) and the relevant level 3. Note that the system predicts and warns about potential problems in advance, helping to ensure they never occur.



### **Equipment Calibration Control**

EMCAP keeps a record of all NDT plant and equipment, along with the necessary calibration requirements to meet the NADCAP baseline or user specified (more stringent) requirements. The system warns of upcoming calibrations and alerts the level 3 in advance. Complete records of calibrations are kept within the system and can be recalled for any period and any piece of equipment.

### **What EMCAP support provides**

EMCAP system support is a complete support package providing the following benefits:

- 1 We liaise with your internal IT staff to ensure that you end up with the system configured to work best for your organisation. Our engineers are capable of installing both the Informix server and the application itself if required.
- 2 Once installed, an EMCAP engineer will be on site to help you through the setup of and configuration of your system.
- 3 We train both NDT personnel and IT staff to use the system.
- 4 There is a dedicated EMCAP helpdesk for help with any issues at all you may have. This includes application support, user help and IT and technical support.
- 5 Updates are provided to the EMCAP system data to ensure continuous compliance with any changes made in the NADCAP requirements, including control checks.
- 6 Updates to all later versions of the EMCAP system for the modules you subscribe to are provided free of charge.

### **Contact Details**

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