

## **TRAINING CURRICULUM**

# **Monitoring Endorsement**

### **Lesson Plan for the EMR**

## **Montana Department of Labor Board of Medical Examiners**

The purpose of the Monitoring Endorsement for EMR is to provide the EMR with the knowledge and skills to collect potential diagnostic values and pass that information on to the transporting entity, receiving facility, or medical control. The Monitoring Endorsement is NOT designed for the EMR to interpret the results of monitored findings, or base patient care on the results of monitored findings. Patient care should always be based on patient presentation and Montana Prehospital Treatment Protocols.

## INTRODUCTION

This Lesson Plan includes the material which the Monitoring Endorsement student will need to know in order to successfully receive the Monitoring Endorsement.

At the start of each lesson is a list of the objectives which the Monitoring Endorsement student must master in order to have the knowledge and skills necessary to progress through that lesson. Following the list of objectives for the lesson is an outline of the material which must be covered in order to satisfy the objectives. It is up to the Lead Instructor to determine if review of the remaining objectives is necessary in order for the students in a particular course to have mastery of all of the objectives of the lesson.

At the end of each module, the Lead Instructor will provide a practical lab. The practical labs may, at the discretion of the Lead Instructor, be given at the end of each module or interspersed as each skill is learned. In some instances, material which should have been covered in a previous course has been included in the outline where it was thought necessary for review, to clarify other material, or in order to make the lesson plan "flow".

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If you have any questions regarding the content or intent of the Monitoring Endorsement Lesson Plan, please contact the Montana Board of Medical Examiners.

## **FORWARD**

The Montana Board of Medical Examiners (BOME) developed the ECP endorsement process to provide the local EMS medical director the ability to expand the individual ECP scope of practice. The BOME has defined the "maximum allowable" skills for each endorsement and established statewide protocols. The endorsement process consists of education and verification.

The local EMS medical director is responsible for verifying an EMT's knowledge and skills for a particular endorsement. This can be accomplished via a training program; or the medical director may take into account an ECP's previous education, skill ability or other personal knowledge to determine whether an ECP meets the endorsement knowledge and skill requirements. The local medical director is responsible for the quality of all

endorsement training via direct participation and/or oversight.

The medical director cannot exceed the scope of the endorsement, but may set limits on the ambulance service or the individual ECP.

The endorsement material that follows provides the knowledge and psychomotor objectives at the specific endorsement level. Some endorsements may also include sample lesson plans for use in presenting the material. The endorsements (specifically at the AEMT and Paramedic levels) may be non-specific in certain areas (such as specific medications or routes of administration) as the Board does not intend to “practice medicine”. The medical director “practices medicine” and has the ability to determine the specific’s concerning the endorsement. The Board approved protocols define the extent of the local medical directors flexibility: “...*The Board authorizes the service medical director to use the Board approved protocols in their entirety or may determine to limit individual EMT providers function / practice where appropriate and in accordance with provider’s abilities. However, the service medical director may not significantly alter (change the performance expectations of the ECP) or expand approved Board protocols without first seeking Board of Medical Examiners approval.*” If the medical director wishes to request the Board to “significantly alter” the protocol there is a process identified in the rules for that to occur.

The endorsement process for the EMR level is slightly different. The local Lead Instructor is allowed to document the successful completion of the educational requirements for the EMR endorsement. The Lead Instructor may not take into consideration previous education or training as the local medical director is allowed when completing the individual’s verification form. The Lead Instructor can only verify the individual’s successful completion of the training/educational requirements. This is only allowed at the EMR endorsement levels of monitoring.

The Lead Instructor must remember the endorsement process is a privilege granted to a Montana licensed ECP. Endorsement education can only be offered to Montana ECP licensees; therefore, the Lead Instructor may not combine initial EMR education. The endorsement education must be done independently of the initial program.

The endorsement process requires that the medical director complete a standardized “verification form” (certificate of completion) documenting that an individual ECP has the knowledge and skills identified at the specific endorsement level. The individual ECP then submits an application to the Board to establish the endorsement on their license. The medical director then has the option of granting permission to the individual ECP to perform the endorsement to the extent defined by the medical director. All forms and endorsement materials can be obtained from the web site;

[www.emt.mt.gov](http://www.emt.mt.gov). Any questions or concerns can be addressed to Ken Threet at (406) 841-2359 or [kthreet@mt.gov](mailto:kthreet@mt.gov).

## **PULSE OXIMETRY**

### **COGNITIVE OBJECTIVES**

At the completion of this lesson, the Monitoring Endorsement student will be able to:

State the principles of pulse oximetry

State the normal values for pulse oximetry

Identify conditions which can adversely affect a patient's oxygen saturation level

Identify conditions which can produce erroneous readings in pulse oximetry

### **AFFECTIVE OBJECTIVES**

At the completion of this lesson, the Monitoring Endorsement student will be able to:

Explain the rationale for obtaining a patient's oxygen saturation level (A-3)

### **PSYCHOMOTOR OBJECTIVES**

At the completion of this lesson, the Monitoring Endorsement student will be able to:

Demonstrate the correct application of a pulse oximetry monitoring device.

Demonstrate obtaining a pulse oximetry reading.

Demonstrate ability to correctly troubleshoot and correct simple problems.

### **RECOMMENDED MINIMUM**

**TIME TO COMPLETE:** Minimum of one hour which combines part  
Lecture overview and part Skills Practice.

### **EQUIPMENT:**

Pulse oximetry monitoring unit

Patient transducer and cable

Fingernail polish remover pad

## **OVERVIEW**

**Emphasize to the EMR: Treat the patient, not the device! If the saturation level is 92% or better, maintain this oxygen saturation level with high concentration oxygen administration if there is great potential for development of a shock status! If the saturation level falls below 92%, more aggressive oxygenation is in order.**

## **GLUCOMETRY**

### **COGNITIVE OBJECTIVES**

At the completion of this lesson, the Monitoring Endorsement student will be able to:

State the principles of blood glucose testing

State the normal values for blood glucose levels

Identify conditions which can adversely affect a patient's glucose level

Identify conditions which can produce erroneous readings in blood glucose

### **AFFECTIVE OBJECTIVES**

At the completion of this lesson, the Monitoring Endorsement student will be able to:

Explain the rationale for obtaining a patient's blood glucose level

### **PSYCHOMOTOR OBJECTIVES**

At the completion of this lesson, the Monitoring Endorsement student will be able to:

The student shall appropriately obtain a blood specimen for testing purposes.

The student shall obtain a blood glucose level reading.

The student shall appropriately dispose of all sharps while adhering to Body Substance Isolation (BSI) procedures

The student shall be able to correctly troubleshoot and correct simple problems.

The student shall be able to follow manufacturer and later developed service specific preventive maintenance procedures related to the monitoring device

### **RECOMMENDED MINIMUM TIME TO COMPLETE:**

Minimum of one hour, which includes part Lecture and part Skills practice time.

### **EQUIPMENT:**

Blood glucose monitoring unit (glucometer)

Alcohol pad

Dry sterile dressing

bandage (Band-Aid)

universal precautions

lancet (or other piercing device)

test strips