



MACP Class Syllabus

Manhole Assessment and Certification Program (MACP™) Version 7.0.4

Pre-requisites

All MACP students must pass the PACP portion of the class before moving forward towards MACP certification.

Required Texts

Pipeline Assessment & Certification Manual- provided by NASSCO through a certified trainer. Updates to the manual can be found by logging in to www.nassco.org

Suggested Reference

Sewerage Rehabilitation Manual- WRc. Available for purchase at www.nassco.org

Manual of Sewer Condition Classifications- WRc. Available for purchase at www.nassco.org

Course Goals

MACP - The goal of the MACP is to provide the student a thorough understanding of the procedures required to perform an appropriate inspection of manholes and other access points on all components that make up these structures.

Course Activities

Presentation of Modules

Course Review

Multiple Choice/Open Book Test

Course Schedule

1. Introduction to Manhole Condition Assessment, *estimated time 45 minutes*
 - A. Manhole Assessment Certification Program (MACP)
 - i. Overview
 - ii. MACP Inspection Form
 - iii. Levels
 - iv. Photographs
 - B. Manhole Component Descriptions
 - i. Cover
 - ii. Frame
 - iii. Chimney
 - iv. Cone
 - v. Wall

- vi. Bench
 - vii. Channel
 - viii. Pipe Connections
2. Manhole Inspection Header Section and Component Observation, *estimated time 1.75 hours*
 - A. Header Section Instructions
 - B. Component Observation Section Instructions
 3. Manhole Component Defect Section, *estimated time 1 hour*
 - A. PACP Defect Codes
 - B. Manhole Component Section
 - C. Chimney Defect Condition Inspection
 - D. Cone Defect Condition Inspection
 - E. Wall Defect Condition Inspection
 - F. Bench Defect Condition Inspection
 - G. Channel Defect Condition Inspection
 - H. Sample MACP Inspection Form
 4. Course Review, *estimated time 30 minutes*
 5. Multiple Choice Test, *estimated time 30 minutes*

Comments

- General - The Trainer should clearly explain that MACP consists of Level 1 and Level 2 inspections. The class should understand why there are two levels and the differences between the two.
- Manhole Component Descriptions - The Trainer must describe each component of a manhole from the cover down to the channel and include pipe connections in the manhole. The manual contains good descriptions and helpful sketches of the manhole components for reference.
- Manhole Inspection Header Section - The Trainer must carefully explain the proper uses of the Header Section as it relates to Level 1 or Level 2 inspections. All fields in the Header Section must be explained clearly while encouraging questions from the class. Many of the fields are taken directly from the PACP Header Section and will require minimum review by the Trainer. Others that are unique to MACP will require more detailed explanation from the Trainer.
- Manhole Component Observation Section - The observation of manhole component defects and attributes is important to complete understanding and must be carefully covered during the instruction period.

Grading

Each student will be expected to get at least 85% of the questions asked correct in order to become certified. If the target is not met, every effort will be made to help the student grasp the information and retake the test.

Total Course Time: 4.5 hours