M2M
MENTORING TO MANHOOD

Telecom Certification Course

Six Week Certification Course

Saturday, January 7 – February 25, 2017
9am – 1pm

This six-week certification will provide students
ages 16-25 with a cable installer certification with the
Electronics Technicians Association.
Students will also be provided with OSHA safety card.
Registration Cost $175
(includes instruction, materials and licensing exams)

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EQUAL HOUSING OPPORTUNITY

M2M Telecom Certification

2016-2017 Syllabus

Course Description

The Mentoring to Manhood Telecom Certification is an initiative designed to offer recent high school graduates an opportunity to learn a marketable skill ultimately culminating in employment. The M2M Telecom Certification will prepare young men for certification with the Electronic Technicians Association as a Certified Data Cabling Installer (DCI). Upon completion of the six-week training course, student will be given the opportunity to test for two certifications.

> Certification 1: Certified Data Cabling Installer (DCI)
> Certification 2: OSHA 10-Hour General Industry Card

Course Objectives

- Understand Safety & Basic Electricity
- Understand Data Communications Basics
- Basic Network Architecture and Cable Construction
- Understand National Electrical Code (NEC) Requirements
- Understand Connector Installation and Troubleshooting
- Understand OSHA purpose
- Discuss employer responsibilities under OSHA
- Explain how OSHA inspections are conducted
- Utilize helpful worker safety and health resources

Instructors

Richard Nightengale, Certified Data Cabling Installer, entrepreneur and business owner has over 40 years of continuous employment in the cabling industry. With certifications from ETA, AT&T, NEC, OSHA, Professor Nightengale also served as associate adjunct instructor at Anne Arundel Community College with telecommunications and fiber optics.

Guest speakers will also be included as course instructors

Location

M2M Telecommunication classes will be held on Saturdays from 9am -1pm at the Kentland Community Center, 2411 Pinebrook Avenue in Landover, MD. Students are expected to arrive a minimum of 10 minutes prior to each class. Students are also encouraged to bring a lunch and snack for break times.

Materials

- Enhanced Data Cabling Installers Certification
- The Complete Data Installers Certification
- You-Tube "How To" Series

Course Fee $175

- Includes Instruction
- Materials
- Examination Fees

Curriculum

Session 1 – Orientation and Overview

Session One will provide the students with an overview of the six weeks and provide an introduction to safety and basic electricity.

Session 2 – Data Cabling and Introduction

Session Two will provide the students with a basic understanding of cabling and data communications basics.

Session 3 – Network Architecture and Cable Construction

Session Three will describe network technologies and explain cable construction requirements.

Session 4 – National Electrical Code & UL Requirements

Session Four will associate the history of the National Fire Protection Association with the National Electrical Code (NEC)

Session 5 – Transmission Media for Networking & Telecom

Session Five will identify the three common bounded media types used for data transmission.

Session 6

Exam Instruction and Review

Schedule

Fall Semester
- Session 1 - Saturday, September 17
- Session 2 – Saturday, September 24
- Session 3 – Saturday, October 1
- Session 4 – Saturday, October 8
- Session 5 – Saturday, October 15
- Session 6 – Saturday, October 22

Saturday, October 29 – Certification Exam

Winter Semester
- January 7 – February 25, 2017

Spring Semester I
- March 11 – April 28, 2017

Spring Semester II
- May 6 – June 24, 2017