HIBBING COMMUNITY COLLEGE
COURSE OUTLINE

COURSE NUMBER & TITLE: MCT 1557 Communication Cabling & Termination
CREDITS: 2 (0 Lec / 2 Lab)
PREREQUISITES: None

CATALOG DESCRIPTION:
Communication Cabling & Termination provides instruction with hands on training in copper cabling and terminations along with fiber optics splicing and terminations. Individuals will be prepared to meet the Certified Fiber Optic Technician (CFOT) exam requirements and learn how to install and terminate Cat 3/5/5e/6 properly per EIA/TIA standards.

OUTLINE OF MAJOR CONTENT AREAS:
I. Copper Cables
II. Fiber Optics
III. Connectors & Interconnection Hardware
IV. Networks
V. System-Level Cabling
VI. Installing Cabling System
VII. Certifying the Cabling System
VIII. Documenting and Administering the Installlation
IX. Residential Cabling Systems

COURSE OUTCOMES/OBJECTIVES/GOALS:
Students will
1. observe how “noise” can affect a network.
2. explain impedance, attenuation, return loss & propagation.
3. demonstrate the use of twisted pair cables.
4. describe laser and led’s.
5. demonstrate copper cable terminations.
6. demonstrate fiber optic connectors.
7. analyze patch panels.
8. explain different network topologies.
9. interpret cable specifications.
10. troubleshoot fiber.

MNTC GOALS AND COMPETENCIES MET:
N/A

HCC COMPETENCIES MET:
Working Productively and Cooperatively
Communicating Clearly and Effectively
STUDENT CONTRIBUTIONS:
The student is expected to prepare for classes, attend classes, attend all lectures and labs, participate in all class activities, complete everything on time, and request assistance if needed.

STUDENT ASSESSMENT SHALL TAKE PLACE USING INSTRUMENTS SELECTED/DEVELOPED BY THE COURSE INSTRUCTOR.

SPECIAL INFORMATION (SPECIAL FEES, DIRECTIVES ON HAZARDOUS MATERIALS, ETC.)

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