# Competency Task List – Secondary Component

# Management Information Systems CIP 52.1201

# High School Graduation Years 2021, 2022, 2023

## 100 Safety

|  |  |  |  |
| --- | --- | --- | --- |
| Item | Task  | (X) Indicates Proficiency 1 | Secondary Course Crosswalk |
| 101 | Follow current ergonomic best practices for health, safety, and productivity. |   |   |
| 102 | Organize and maintain workspace. |  |  |
| 103 | Differentiate ways to dissipate electrostatic discharge and related risks. |  |  |

## 200 Professional Business Procedures

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| Item | Task  | (X) Indicates Proficiency 1 | Secondary Course Crosswalk |
| 201 | Practice and deliver multimedia and telecommunications etiquette. |   |   |
| 202 | Identify, proofread, and correct grammar errors in all documents. |   |   |
| 203 | Practice professional interpersonal communication skills. |   |   |
| 204 | Use time management skills. |   |   |
| 205 | Prepare business correspondence and technical documents. |   |   |
| 206 | RESERVED |   |   |
| 207 | Identify needs and build rapport with end users. |  |  |
| 208 | Develop and perform conflict resolution practices.  |  |  |
| 209 | RESERVED |  |  |
| 210 | RESERVED |  |  |
| 211 | RESERVED |  |  |
| 212 | Demonstrate supervision and training techniques. |  |  |

## 300 Business Law and Ethics

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| Item | Task  | (X) Indicates Proficiency 1 | Secondary Course Crosswalk |
| 301 | Identify the principles of business law and ethics and explain how they relate to business policies, e.g., intellectual property. |  |   |
| 302 | RESERVED |  |   |
| 303 | Explain crimes often associated with businesses and organizations, e.g., embezzlement, extortion, and computer crimes. |  |  |
| 304 | RESERVED |  |  |
| 305 | Identify improper use of business technology and property, e.g., computers, mobile devices, and telephones. |  |  |
| 306 | Identify legal safeguards to protect sensitive data and preserve confidentiality.  |  |  |
| 307 | RESERVED |  |  |
| 308 | RESERVED |  |  |
| 309 | RESERVED |  |  |
| 310 | RESERVED |  |  |

## 400 Computer and Internet Fundamentals

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| Item | Task  | (X) Indicates Proficiency 1 | Secondary Course Crosswalk |
| 401 | Use terminology associated with online technologies. |  |   |
| 402 | Stay current with new and emerging technologies and certifications. |  |   |
| 403 | Use advanced search engine techniques to locate resources. |  |  |
| 404 | Identify components of a computer system and related peripherals.  |  |  |
| 405 | Navigate and manage operating systems and utility programs. |  |  |
| 406 | Identify types of telecommunication devices and networks (e.g. local area network (LAN), wide area network (WAN), router, switch, firewall). |  |  |
| 407 | Use proper file management techniques.  |  |  |
| 408 | Use a variety of cloud computing services.  |  |  |
| 409 | RESERVED |  |  |
| 410 | Utilize multimedia presentation software for professional communication. |  |  |
| 411 | Design, edit, and publish documents using appropriate software.  |  |  |
| 412 | Identify and explain the variety of E-commerce models, e.g. business-to-business (B2B), consumer-to-business (C2B), business-to-consumer (B2C), customer-to-customer (C2C). |  |  |
| 413 | Select data and design mail merge functionality in productivity software. |  |  |
| 414 | Construct files utilizing features, such as formats, headers and footers, styles, tables, and charts. |  |  |
| 415 | Differentiate the types of programming language, e.g., procedural, object-oriented, script. |  |  |

## 500 Data Analysis Software

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| Item | Task  | (X) Indicates Proficiency 1 | Secondary Course Crosswalk |
| 501 | Manage and manipulate data using spreadsheets.  |   |   |
| 502 | Generate and analyze graphs and associated data using spreadsheet software. |   |   |
| 503 | RESERVED |  |  |
| 504 | Input data, e.g., payroll or inventory data, into spreadsheet software. |  |  |
| 505 | Create and show formulas and use built-in functions utilizing spreadsheet software. |  |  |
| 506 | Sort and filter spreadsheet data. |  |  |
| 507 | Format spreadsheet cells, e.g., underline, alignment, borders, shading. |  |  |

## 600 Database Administration

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| Item | Task  | (X) Indicates Proficiency 1 | Secondary Course Crosswalk |
| 601 | Design a database structure.  |   |   |
| 602 | Create an entity-relationship diagram. |   |   |
| 603 | Create tables and modify fields.  |   |   |
| 604 | Build forms to capture, manipulate, and display data.  |   |   |
| 605 | Construct and manage queries using one or more tables.  |  |  |
| 606 | Design and arrange reports using filters.  |  |  |
| 607 | Apply normalization to relational databases. |  |  |
| 608 | RESERVED |  |  |
| 609 | Implement security, back-up, and recovery procedures.  |  |  |
| 610 | Import and export data into other applications. |  |  |

## 700 Programming and System Development

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| Item | Task  | (X) Indicates Proficiency 1 | Secondary Course Crosswalk |
| 701 | Apply working knowledge of the System Development Life Cycle (system investigation/project proposal, analysis, design, code/test, implementation, and maintenance). |   |   |
| 702 | Differentiate programming fundamentals, e.g., system processing, integration, generations of languages, binary code, object code, source code. |  |  |
| 703 | Declare and manipulate various data type variables. |  |  |
| 704 | Utilize program control structures, e.g., decisions, loops, functions / subroutines, arithmetic and logical operations. |  |  |
| 705 | Create working graphical user interfaces (GUI).  |  |  |
| 706 | Create, test, and debug successful computer programs.  |  |  |
| 707 | Create clear and thorough program documentation.  |  |  |

## 800 Reserved

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| Item | Task  | (X) Indicates Proficiency 1 | Secondary Course Crosswalk |
| 801 | RESERVED |   |   |
| 802 | RESERVED |   |   |
| 803 | RESERVED |   |   |

## 900 Computer Maintenance/Troubleshooting

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| Item | Task  | (X) Indicates Proficiency 1 | Secondary Course Crosswalk |
| 901 | Apply the troubleshooting theory.  |   |   |
| 902 | Analyze and correct common hardware problems and performance issues. |   |   |
| 903 | Analyze and correct common software problems and performance issues. |   |   |
| 904 | Integrate common preventative maintenance techniques. |  |  |
| 905 | Analyze and correct basic network problems and performance issues. |  |  |

1 Student Demonstrated Entry-Level Industry Proficiency as Indicated by (X)

Secondary CTE Instructor Signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Student Signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_