

DRAFT NEW TRADE

INSTRUCTOR/TRAINER (INFORMATION TECHNOLOGY) (Competency-Based)

O*NET CODE 25-1194

APPENDIX A

This training outline represents a minimum standard in terms of work processes and related instruction which are required to achieve skilled worker status. It is recognized that rapid technological and regulatory changes will frequently result in the need for mastery of additional on-the-job or theoretical instruction.

Competency/performance-based apprenticeship occupations are premised on attainment of demonstrated, observable and measurable competencies in lieu of meeting time-based work experience and on-the-job learning requirements. In competency/performance-based occupations apprentices may accelerate the rate of competency achievement or take additional time beyond the approximate time of completion.

WORK PROCESSES

A. Student Orientation

1. Meet new students who are joining class;
2. Describe and/or show both physical and virtual layout of classroom and related facilities to student(s).
3. Describe and/or demonstrate learning materials such as books, workbooks, File folders, encompassing both digital and printed materials.
4. Provide basic introductory instruction in subject matter of class(es).

B. Student Instruction

1. Instruct and assist individual students, in one or more subject areas
2. Switch from subject to subject as needs dictate.
3. Employ various teaching methods, such as: defining words, explaining concepts, giving examples, asking questions to prompt students, repeating or clarifying instructions.
4. Answer student(s') questions.
5. Advise students whether answers or performances are satisfactory or not.
6. Provide positive feedback about student(s') abilities and performance.
7. Provide one-on-one remedial tutoring.

8. Select and assign additional learning activities if initial assignments are completed early.
9. Provide real-world examples of content or competencies being taught.
10. Provide real-time(live) instruction, through desk-top sharing and classroom engagement.

C. Specialized Skill Area(s) Instruction (Optional)*

1. Demonstrate skills such as coding, math, technology skills, digital citizenship skills, art, music, drama, and storytelling.
2. Explain necessary material and sequence of steps for performance of skill.
3. Direct students' attempts at performance; correct as necessary.

D. Student Observation and Progress Reports

1. Observe progress of individual students as they work on assignments.
2. Report on student progress, either orally or in writing (if applicable).
3. Keep written records of activities completed and/or mastered by students.
4. Evaluate students' progress, and recommend advancement to more complex work.
5. Record student attendance.

E. Test Administration

1. Administer informal tests and exercises.
2. Score-tests and exercises.
3. Prepare original test materials.
4. Review and discuss results of tests and exercises with individual students.

F. Classroom Maintenance

1. Maintain awareness of whereabouts of each student.
2. Check on students missing from classroom.
3. Demonstrate professional behavior during class instruction.
4. Observe any conflicts which may occur and resolve where appropriate.

G. Learning Aids:

1. Set up and operate online learning platforms, utilizing collaborative software tools, technology resources such as video cameras, digital whiteboards, sharing desktops, smartboards, audio-visual aids as required for instruction.
2. Set up and operate additional technology devices such as digital cameras, digital whiteboards, smartboards, STEAM technology tools, camcorder, tripod, sound system (if available).
3. Operate personal computers and printers, wherever appropriate as a learning aid.

4. Refer students, as appropriate, to resource materials such as digital whiteboards, web-based tools, dictionary, calendar, library.
5. Use traditional learning aids such as digital whiteboards, web-based tools, chalk and blackboard.

H. Materials Distribution

1. Hand out materials such as digital materials, paper, workbooks, dictionaries to students, as appropriate.
2. Gather up both digital and printed materials when students have finished with them.

Total Approximate Hours

1000-2000

Apprentices in Competency-Based Programs shall participate in no fewer than 1,000 documented hours of on-the-job training, and until they have demonstrated a competency for each Work Process, with the understanding competency will be demonstrated reasonably proximate to the maximum on-the-job training hours. Competency Assessment referenced in Appendix B.

Apprenticeship work processes are applicable only to training curricula for apprentices in approved programs. Apprenticeship work processes have no impact on classification determinations under Article 8 or 9 of the Labor Law. For guidance regarding classification for purposes of Article 8 or 9 of the Labor Law, please refer to https://www.labor.ny.gov/workerprotection/publicwork/PW_faq1.shtm

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RELATED INSTRUCTION

Safety and the Workplace

Basic Workplace Safety and Protocols

First Aid & CPR (minimum 6.5 hours) – if Instructor is in a physical classroom

Sexual Harassment Prevention Training – MUST comply with section 201-g of the Labor Law

Job Skills and Theory

Interpersonal Communication, including: Emotional regulation, Unconscious Bias, Modern Communication Skills, Customer Engagement Skills

Presentation Skills

Record Keeping

Report Writing

Educational Psychology

Developmental Psychology

Teaching Methods: Classroom Management; Psychological Safety; Curriculum Design And Development; Teaching Online; Classroom Engagement; Online Collaboration Tools

Teaching Media

Cultural and Classroom Diversity

Conflict Resolution

Learning and Motivation

Computer Concepts, including: Full-Stack Applications and Technologies; Front-End Applications and Technologies; Back-End Applications; Reading and Refactoring Code; Prototype Applications

Computer Software Applications, such as: Microsoft Suite, GitHub, Git, Visual Studio (VS) Code, Software Development and Operations (DevOps)

Foundations in Internet research

Additional Topics As Necessary

Competency Assessment

Test Preparation

Written/Practical Proficiency Examination(s)

At least 144 hours of Related Instruction must be available for the apprentice at the time of his/her indenture. However, the apprentice may test out earlier if able to demonstrate competence for each topic on the Related Instruction outline.