## The Pennsylvania State University Workforce Education and Development Competency-Based Teacher Education

# Lesson Plan Template

| |
|---|
| **Name of Instructor: Jeff Weyer** |
| **Program Title: Construction Trades** |
| **Course Title: 600 Concrete** |
| **Unit Title: 604 Lay out and build forms** |
| **Lesson Title: FID Lesson 3 Intro to concrete form building, Walls** |
| **Lesson Performance Objective: Learn wall form framing and form removal** |
| **Time (length of lesson): 90 Minutes** |
| **Equipment and Materials needed: Packet and work sheet in handout** |
| **Academic Standard(s) and Anchor(s) and/or Common Core Standard addressed by this lesson:** |

| |
|---|
| **Technical Standard(s) or Competencies taught in this lesson: CC.3.5.9-10.A Cite specific textual evidence to support analysis of science and technical texts, attending to the precise details of explanations or descriptions CC.2.1.HS.F.2Apply properties of rational and irrational numbers to solve real-world or mathematical Problems.** |
| **Introduction There will be a short introduction lesson covering what is expected when this packet is passed out covering the basics of concrete and form building** |
| **Body: Students will have to read Task module 10504 Forming Foundations and Flat work. Then complete assigned questions on worksheet.**<br><br>**There will be an Email sent out with a link to a zoom meeting on the morning of the FID day where I will have online class with a Power point presentation and will cover the packet with the students.** |
| **Summary: We will review the material the day the students return to school with a question and answer session.** |

**Student Assessment (attach a copy of the assessment instrument that will be used to assess students for this lesson): (UDL- Multiple Means of Expression)**

**Formative Assessment(s) A ten question quiz will be given the next day**

**Summative Assessment: Completed work sheet.**

**Universal Design for Learning (UDL**

**Multiple Means of Engagement: Paper Packet and zoom meeting**

**Multiple Means of Representation: Module and power point**

**Multiple Means of Expression:**

Name_____ Date_____

# FID Worksheet 3

INSTRUCTIONS:

The following test is multiple choice. Read the statement and choose the best possible word or words to fill in the blanks and enter that choice (A,B,C,D, Etc.) to the right of the number in the space provided.

1. When _____ form work, be sure all nails, wire, etc. are removed from material. 1._____

A. Building B. Constructing C. Stripping
D. Spreading

2. Foundation walls, like footing, are load _____ structures. 2._____

A. Durable B. Transferring C. Waterproofing
D. Building

3. Foundation walls should resist _____ and be the most durable part of the structure. 3._____

A. Insects B. Weight C. Moisture Penetration
D. Separation

4. A craftsman can relocate the corner of the foundation wall with a _____. 4._____

A. Anchor Bolt B. Form Brace C. Grade Stake
D. Masonary Nail

5. A _____ from corner to corner is used as a guideline to set the forms on the footing. 5._____

A. Board B. Chalkline C. Rope D. Spreader

6. If the _____ of the foundation wall is below the top of the form, a chalkline can be struck and a small wooden strip nailed on the top side as a guide to float concrete to. 6._____

A. Finish Elevation B. Keyway C. Diagonal Brace
D. Rebar

7. Assembly of a foundation wall should start in the _____. 7._____

A. Corners B. Middle

8. Fillers or short forms of foundation wall should be located in the _____ of the wall run. 8._____

A. Ends B. Right Hand Ends C. Left Hand Ends
D. Center

9. Forms should be coated with _____ for ease of stripping. 9._____

A. Paint B. Form Oil C. Mastic D. Chalk

10. The forms of a foundation wall should be set to the _____ of the chalkline on the footings. 10._____

A. Outside B. Center C. Inside

11. Set each adjoining panel of a foundation wall flush and tightly together and fasten them together with _____. 11._____

A. Rope B. Screws C. Anchor Bolts D. Duplex Nails

12. After all outside forms are in place, drive _____ outside of all the corners for bracing. 12._____

A. Duplex Nails B. Masonary Nails C. Deadman Stakes
D. Grade Stakes

13. Plumb up the outside form and secure it with a _____ from the top of the form to a deadman stake. 13._____

A. Chalkline B. Diagonal Brace C. Spreader
D. Stiff Back

14. Concrete will not stick to a surface that has _____ on it. 14._____

A. Steel B. Form Oil C. Aluminum D. Water

15. The assembly of the inside wall forms should start at the _____ of the wall run. 15._____

A. Corners B. Center C. Ends D. Spreaders

16. The outside and inside forms are held the right distance apart about halfway up the form with _____. 16._____

A. Duplex Nails B. Screws C. Anchor Bolts
D. Spreaders