



Appendix A

WORK PROCESS SCHEDULE AND RELATED INSTRUCTION OUTLINE



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WORK PROCESS SCHEDULE

OCCUPATION TITLE: CARPENTER

O*NET-SOC CODE: 47-2031.00

RAPIDS CODE: 0067

This schedule is attached to and a part of these Standards for the above-identified occupation.

1. TYPE OF OCCUPATION

Time-based Competency-based Hybrid

2. TERM OF APPRENTICESHIP

The term of the occupation is four years with an OJL attainment of 8000 hours, supplemented by the minimum required 575 hours of related instruction with a probationary period of 1 year or 2000 OJL hours, whichever is shorter.

3. RATIO OF APPRENTICES TO JOURNEYWORKERS

The apprentice to journeyworker ratio is one (1) apprentice to one (1) journeyworker per job site.

4. APPRENTICE WAGE SCHEDULE

Apprentices shall be paid a progressively increasing schedule of wages based on either a percentage or a dollar amount of the current hourly journeyworker wage rate, which is: \$13.00 per hour

PERIODS:

1 st	6 months (1000 hours) = \$8.45	2 nd	6 months (1000 hours) = \$9.10
3 rd	6 months (2000 hours) = \$9.75	4 th	6 months (1000 hours) = \$10.40
5 th	6 months (1000 hours) = \$11.05	6 th	6 months (2000 hours) = \$11.70

5. WORK PROCESS SCHEDULE (See attached Work Process Schedule)

The sponsor may modify the work processes to meet local needs prior to submitting these Standards to the appropriate Registration Agency for approval.

6. RELATED INSTRUCTION OUTLINE (See attached Related Instruction Outline)



Appendix A

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<u>OJL CORE COMPETENCIES</u>	<u>HOURS</u>
Basic Safety (Construction) / Site Safety Orientation	200
Site/Project Preparation and Maintenance	100
Introduction to Hand Tools and Power Tools	100
Introduction to Materials Handling	100
Introduction to Basic Rigging	100
Introduction to the Construction Trade and Construction Drawings	150
Basic Communication Skills	50
Construction / Electrical Safety / OSHA-10	200
Foundations	500
Care of Tools, Materials and Equipment	200
Finish Carpentry	1000
Interior Wall Coverings	500
Framing (Walls and Floors)	1100
Framing (Roofs, Ceilings)	800
Painting / Wallpapering	600
Tile Work	400
Siding	400
Exterior Mill Work	200
Stairs	400
Floors	500
Sheetrock / Drywall	200
Interior Finish	200
TOTAL HOURS	8000



RELATED INSTRUCTION OUTLINE

OCCUPATION TITLE: CARPENTER

O*NET-SOC CODE: 47-2031.00

RAPIDS CODE: 0067

Related instruction - The following training curriculum will be provided by the program sponsor and their certified and designated program instructor(s).

Core Curriculum: Required for all Specialized Competencies and Completion of Apprenticeship

COURSES	HOURS
Basic Safety (Construction), Site Safety Orientation, Orientation to Trade	8
Introduction to Construction Math	8
Introduction to Hand Tools	8
Introduction to Power Tools	8
Introduction to Construction Drawings	8
Introduction to Basic Rigging	8
Basic Communication and Employability Skills	4
Introduction to Materials Handling	8
Total Hours	60
Carpentry, Level 1	120
• Building Materials, Fasteners and Adhesives	20
• Hand and Power Tools	10
• Floor Systems	20
• Wall Systems	10
• Ceiling Joist and Roof Framing	40
• Basic Stair Layout	10
• Introduction to Building Envelope Systems	10
Carpentry, Level 2	150
• Commercial Drawings	20
• Cold-Formed Steel Framing	10
• Exterior Finishing (Residential)	20
• Thermal and Moisture Protection	10
• Roofing Applications (Residential)	20
• Doors and Door Hardware	10
• Drywall Installation	10



• Drywall Finishing	10
• Suspended Ceilings	10
• Window, Door, Floor and Ceiling Trim	20
• Cabinet Installation	10
Carpentry, Level 3	135
• Properties of Concrete	10
• Rigging Equipment	10
• Rigging Practices	10
• Trenching and Excavating	15
• Reinforcing Concrete	15
• Foundations and Slab-on-Grade	15
• Vertical Formwork	15
• Horizontal Formwork	15
• Handling and Placing Concrete	15
• Tilt-up Wall Panels	15
Carpentry, Level 4	110
• Site Layout 1: Differential Leveling	15
• Site Layout II: Angular and Distance Measurement	15
• Advanced Roof Systems	15
• Advanced Wall Systems	15
• Advanced Stair Systems	15
• Introduction to Construction Equipment	10
• Introduction to Oxyfuel Cutting and ARC Welding	15
• Site Preparation	10
Total RTI Hours for the completion of the apprenticeship	575



The Northside Independent School District Construction Careers Academy will recognize specific competencies of the carpentry occupation.

Apprentices must complete the following number of related instructional hour to accompany the required on-the-job learning hours to be recognized for a specialized competency. The program sponsor will use the on-the-job learning gained through work experience and conduct a performance evaluation to certify acquisition of the skills required for the recognition of a specialized competency.

Overall apprenticeship completion will be obtained when the apprentices have complete all on-the-job learning and the related theoretical instruction as identified in this work process for the carpentry occupation.

Core On-The-Job Learning (OJL) Skills for Specialized Competencies

Basic Safety (Construction) / Site Safety Orientation	200
Site/Project Preparation and Maintenance	100
Introduction to Hand Tools and Power Tools	100
Introduction to Materials Handling	100
Introduction to Basic Rigging	100
Introduction to the Construction Trade and Construction Drawings	150
Basic Communication Skills	50
Construction / Electrical Safety / OSHA-10	200
Total Hours	1000

Core Related Theoretical Instruction (RTI) required for all Specialized Competencies

Basic Safety (Construction), Site Safety Orientation, Orientation to Trade	8
Introduction to Construction Math	8
Introduction to Hand Tools	8
Introduction to Power Tools	8
Introduction to Construction Drawings	8
Introduction to Basic Rigging	8
Basic Communication and Employability Skills	4
Introduction to Materials Handling	8
Total Hours	60

(Entry Level Framing and Finishing)

Related Theoretical Instruction (RTI) Required

<u>Carpentry, Level 1</u>	120
Building Materials, Fasteners and Adhesives	20
Hand and Power Tools	10
Floor Systems	20
Wall Systems	10
Ceiling Joist and Roof Framing	40
Basic Stair Layout	10
Introduction to Building Envelope Systems	10



<u>Carpentry, Level 2</u>	150
Commercial Drawings	20
Cold-Formed Steel Framing	10
Exterior Finishing (Residential)	20
Thermal and Moisture Protection	10
Roofing Applications (Residential)	20
Doors and Door Hardware	10
Drywall Installation	10
Drywall Finishing	10
Suspended Ceilings	10
Window, Door, Floor and Ceiling Trim	20
Cabinet Installation	10
Total Required RTI Hours	330

Apprentices must complete a **minimum of 3000 hours** of on-the-job learning for the award of an interim credential for **Entry Level Framing and Finishing**. Apprentices may acquire more on-the-job learning hours based on the on-the core business and on-the-job learning acquired with the participating employers.

On-The-Job Learning (OJL) Required

Foundations	500
Care of Tools, Materials and Equipment	200
Finish Carpentry	1000
Interior Wall Coverings	500
Framing (Walls and Floors)	1100
Framing (Roofs, Ceilings)	800
Painting / Wallpapering	600
Tile Work	400
Siding	400
Exterior Mill Work	200
Stairs	400
Floors	500
Sheetrock / Drywall	200
Interior Finish	200
Total OJL Hours	7000



(Advance Building Systems)

Related Theoretical Instruction Required

<u>Carpentry, Level 3</u>	135
Properties of Concrete	10
Rigging Equipment	10
Rigging Practices	10
Trenching and Excavating	15
Reinforcing Concrete	15
Foundations and Slab-on-Grade	15
Vertical Formwork	15
Horizontal Formwork	15
Handling and Placing Concrete	15
Tilt-up Wall Panels	15
<u>Carpentry, Level 4</u>	110
Site Layout 1: Differential Leveling	15
Site Layout II: Angular and Distance Measurement	15
Advanced Roof Systems	15
Advanced Wall Systems	15
Advanced Stair Systems	15
Introduction to Construction Equipment	10
Introduction to Oxyfuel Cutting and ARC Welding	15
Site Preparation	10
Total Required RTI Hours	245

Apprentices must complete a **minimum of 4000 hours** of on-the-job learning for the award of an interim credential for **Advance Building Systems**. Apprentices may acquire more on-the-job learning hours based on the on-the core business and on-the-job learning acquired with the participating employers.

Foundations	500
Care of Tools, Materials and Equipment	200
Finish Carpentry	1000
Interior Wall Coverings	500
Framing (Walls and Floors)	1100
Framing (Roofs, Ceilings)	800
Painting / Wallpapering	600



Tile Work	400
Siding	400
Exterior Mill Work	200
Stairs	400
Floors	500
Sheetrock / Drywall	200
Interior Finish	200
Total Required OJL Hours	7000