



ONTARIO COLLEGE OF TRADES

ORDRE DES MÉTIERS DE L'ONTARIO

Apprenticeship
Training Standard

Pre-Cast Concrete
Finisher

Trade Code: 244L

Development Date: August 1994

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PREFACE

This training document was developed by the Apprenticeship and Client Services Branch of Ontario Training and Adjustment Board in consultation with representatives from the industry. These Training Standards are intended to be used by apprentice/ trainee, instructors and companies as a "blueprint" for training or as a prerequisite for government accreditation/certification.

The care and maintenance of this book is the joint responsibility of the apprentice/trainee and the employer. The Training Standards were developed specifically for documenting the apprentice's/trainee's acquisition of skills.

The book becomes the only record of an apprentice's/trainee's training.

IMPORTANT DIRECTIONS TO TRAINERS

The Training Standards identify skills required for this occupation and its related training program.

These Training Standards have been written in concise statements which describe how well an apprentice/ trainee must perform each skill in order to become competent.

In using these Training Standards, trainers will be able to ensure that the apprentice/trainee is developing skills detailed for the occupation.

Trainers and apprentices/trainees are required to sign off and date the skills following each successful acquisition.

Employers participating in this training program will be designated as the Signing Authority and are required to attest to successful achievement by signing the appropriate box included at the end of each unit.

IMPORTANT DIRECTIONS TO THE APRENTICE/TBAINEE

Apprentice

1. All hours working for each employer(s) should be recorded in the Employer Information section.
2. The "Summary of Hours" should be completed, signed and dated by both the apprentice and employer when either all terms of the contract have been completed or the apprentice leaves the employ of the employer.
3. It is the responsibility of the apprentice to inform the local Apprenticeship and Client Services Branch office regarding the following changes:
 - change of employer address;
 - change of apprentice name or address;
 - transfer to a new employer.
4. At the fulfilment of all terms of a Contract of Apprenticeship, the Apprentice/Trainee Completion Form must be completed and signed by the current employer. Present these completed and authorized Training Standards and the Apprentice/Trainee Completion Form to your local Apprenticeship and Client Services office.

Trainee

1. Training Reports must be signed for modular trainees by Ontario Training and Adjustment Board designated Signing Authority and forwarded to a local Apprenticeship and Client Services Branch office.
2. At the Completion of training, the Apprentice/Trainee Completion Form must be completed and-signed off by the employer/Signing Authority and submitted to local Apprenticeship and Client Services Branch office.

NOTICE OF COLLECTION OF PERSONAL INFORMATION

1. At any time during your apprenticeship training, you may be required to show this training standard to the Ministry of Training, Colleges and Universities (the Ministry). You will be required to disclose the signed Apprenticeship Completion form to the Ministry in order to complete your program. The Ministry will use your personal information to administer and finance Ontario's apprenticeship training system, including confirming your completion and issuing your certificate of apprenticeship.
2. The Ministry will disclose information about your program completion and your certificate of apprenticeship to the Ontario College of Trades, as it is necessary for the College to carry out its responsibilities.
3. Your personal information is collected, used and disclosed by the Ministry under the authority of the Ontario College of Trades and Apprenticeship Act, 2009.
4. Questions about the collection, use and disclosure of your personal information by the Ministry may be addressed to the:

Manager, Employment Ontario Contact Centre
Ministry of Training, Colleges and Universities
33 Bloor St. E, 2nd floor, Toronto, Ontario M7A 2S3
Toll-free: 1-800-387-5656; Toronto: 416-326-5656
TTY: 1-866-533-6339 or 416-325-4084.

Please Note: Apprenticeship Training and Curriculum Standards were developed by the Ministry of Training, Colleges and Universities (MTCU). As of April 8th, 2013, the Ontario College of Trades (College) has become responsible for the development and maintenance of these standards. The College is carrying over existing standards without any changes.

However, because the Apprenticeship Training and Curriculum Standards documents were developed under either the Trades Qualification and Apprenticeship Act (TQAA) or the Apprenticeship and Certification Act, 1998 (ACA), the definitions contained in these documents may no longer be accurate and may not be reflective of the Ontario College of Trades and Apprenticeship Act, 2009 (OCTAA) as the new trades legislation in the province. The College will update these definitions in the future.

Meanwhile, please refer to the College's website (<http://www.collegeoftrades.ca>) for the most accurate and up-to-date information about the College. For information on OCTAA and its regulations, please visit: <http://www.collegeoftrades.ca/about/legislation-and-regulations>

APPRENTICE/TRAINEE RECORD

Apprentice/Trainee Name: _____

Contract Number: _____
(If applicable)

EMPLOYER INFORMATION

Company: _____

Address: _____

Telephone: _____

Summary of Hours:

Dates of Employment: _____
From To

Total hours of Training and Instruction between dates of Employment _____ Hours

Employer's Signature Date Apprentice/Trainee Signature Date

PRE-CAST CONCRETE FINISHER

EMPLOYER INFORMATION

Company: _____

Address: _____

Telephone: _____

Summary of Hours: _____

Dates of Employment: _____
: From To

Total hours of Training and Instruction between dates of Employment _____ Hours

_____ Employer's Signature	_____ Date	_____ Apprentice/Trainee Signature	_____ Date
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EMPLOYER INFORMATION

Company: _____

Address: _____

Telephone: _____

Summary of Hours: _____

Dates of Employment: _____
From To

Total hours of Training and Instruction between dates of Employment _____ Hours

_____ Employer's Signature	_____ Date	_____ Apprentice/Trainee Signature	_____ Date
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APPRENTICE/TRAINEE COMPLETION FORM

Apprentice/Trainee Name _____
Print

Signature

Social Insurance Number _____

Training Units when completed should be signed off by Trainer/Signing Authority *on* the following page and presented with this completion form to your local Apprenticeship and Client Services Branch Field Office. Any supporting documentation should also be attached.

In-School completed: Yes () No () Not Applicable ()
(proof to be provided)

Hours completed as
per Contract: Yes () No () Not Applicable ()

Employer Name: _____

Address: _____

Telephone _____

Signing Authority: _____
Signature

OTAB USE ONLY:

Recommended for Exam: Yes () No ()

Signature

Consultant/Office Code

You will be required to disclose this signed form to the Ministry of Training, Colleges and Universities in order to complete your program. The Ministry will use your personal information to administer and finance Ontario's apprenticeship training system.
For further information please see the notice/declaration for collection of personal information that is referenced in the table of contents of this training standard.

PRE-CAST CONCRETE FINISHER

TRAINING UNIT COMPLETION FORM

TRAINING UNIT	TITLE	SIGNING AUTHORITY
U0570	Protect Self and Others	_____
U0571	Use Hand and Power Tools and Equipment	_____
U0572	Use Access Structures	_____
U0573	Repair Defects	_____
U0574	Clean Pre-Cast Concrete Surfaces	_____
U0575	Apply Grout	_____
U0576	Apply Chaulking	_____

U0570.0 PROTECT SELF AND OTHERS

GENERAL PERFORMANCE OBJECTIVE

Protect self and others by applying safety directives, keeping the workplace clean and organized, following fire procedures, practising first aid, ensuring proper lighting and installation of guard rails, using safety devices on tools and equipment, wearing and using protective apparel and devices, ensuring adequate ventilation, lifting and carrying correctly, setting up and using access equipment, complying with company safety procedures, disposing of solvents and reporting unsafe conditions.

TERMINAL PERFORMANCE OBJECTIVES

Supervisor's Name (print)

Apprentice's Name (print)

SKILLS

U0570.01 Apply the safety directives provided in legislation, such as The Occupational Health and Safety Act (OHSA) (including the Workplace Hazardous Materials Information System), the Construction Safety Act, and Construction Codes.

Date Completed

Supervisor's Signature

Apprentice's Signature

U0570.02 Keep the workplace clean and well-organized, with travelled areas free from obstacles, to prevent injury from tripping or from falling objects.

Date Completed

Supervisor's Signature

Apprentice's Signature

UOS70.0 **PROTECT SELF AND OTHERS - cont'd**

U0570.03 Follow fire regulations and procedures as prescribed.

Date Completed	Supervisor's Signature	Apprentice's Signature
_____	_____	_____

U0570.04 Practice basic first aid and identify the location of first aid equipment and supplies.

Date Completed	Supervisor's Signature	Apprentice's Signature
_____	_____	_____

U0570.05 Confirm that the worksite has the required lighting, approximately one 200-Watt bulb for every 400 square feet (37 square metres) of area.

Date Completed	Supervisor's Signature	Apprentice's Signature
_____	_____	_____

U0570.06 Install and/or replace required guard rails to protect both workers and the public, as per manufacturers' instructions and the Construction Regulations under the Occupational Health and Safety Act.

Date Completed	Supervisor's Signature	Apprentice's Signature
_____	_____	_____

U0570.07 Use the safety features of tools and equipment as prescribed by the manufacturers' instructions.

Date Completed	Supervisor's Signature	Apprentice's Signature
_____	_____	_____

U0570.0 PROTECT SELF AND OTHERS - cont'd

U0570.08 Wear, adjust, use and maintain properly fitting protective apparel and devices, such as prescribed safety and rubber boots, hard hats, gloves, safety glasses and goggles, masks and face shields, coveralls, and safety harnesses suitable for a specific job related to finishing, repair or cleaning operations on precast concrete surfaces, as per manufacturers' instructions, and as required by OHSA and the Construction Regulations.

Date Completed	Supervisor's Signature	Apprentice's Signature
_____	_____	_____

U0570.09 Confirm required ventilation at the worksite to effectively eliminate noxious fumes and gases when working in confined spaces, as required by OHSA.

Date Completed	Supervisor's Signature	Apprentice's Signature
_____	_____	_____

U0570.10 Lift and carry heavy objects in such a way as to avoid personal injury, such as back strain, in accordance with OHSA.

Date Completed	Supervisor's Signature	Apprentice's Signature
_____	_____	_____

U0570.11 Identify and report to designated individuals, accidents, injuries, and unsafe, hazardous and toxic conditions that might impair the health of exposed workers or bystanders in compliance with OHSA.

Date Completed	Supervisor's Signature	Apprentice's Signature
_____	_____	_____

U0570.0 PROTECT SELF AND OTHERS - cont'd

U0570.12 Select, set up, maintain, and use various types of access equipment such as ladders, scaffolds and swing stages in compliance with OHSA.

Date Completed	Supervisor's Signature	Apprentice's Signature
_____	_____	_____

U0570.13 Comply with the applicable safety procedures and policies affecting the workplace that are set out by precast concrete companies and associations.

Date Completed	Supervisor's Signature	Apprentice's Signature
_____	_____	_____

U0570.14 Dispose of used chemical cleaning solvents in accordance with manufacturers' instructions, WHMIS legislation and the Environmental Protection Act.

Date Completed	Supervisor's Signature	Apprentice's Signature
_____	_____	_____

Employer's Name	Employer's Signature
_____	_____

U0571.0 USE HAND AND POWER TOOLS AND EQUIPMENT

GENERAL PERFORMANCE OBJECTIVE

Select, use and maintain hand and power tools and equipment common to the trade to repair and finish precast concrete surfaces, including sandblasting equipment

TERMINAL PERFORMANCE OBJECTIVES

Supervisor's Name (print)

Apprentice's Name (print)

SKILIS

U0571.01 Select, use and maintain hand tools, such as pointing trowel, paint brush, acid brush, hammer, point chisel, bush hammer, flat chisel, hard steel brush, soft steel brush, flat trowel, pails, clamps, caulking guns, and hand stone to perform finishing, repair or cleaning operations on precast concrete surfaces.

Date Completed

Supervisor's Signature

Apprentice's Signature

U0571.02 Select, use and maintain power tools, such as grinders, bush hammers, chipping guns, power washers, masonry cutting saws, grout-pumping equipment, and compressors to perform finishing, repair or cleaning operations on precast concrete surfaces.

Date Completed

Supervisor's Signature

Apprentice's Signature

U0571.0 USE BAND AND POWER TOOLS AND EQUIPMENT - cont'd

U0571.03 Set up sandblasting equipment for repairing and finishing precast concrete surfaces, in accordance with manufacturers' instructions and applicable health and safety legislation, such as positioning of compressor, warming up compressor, connecting hoses to compressor, blowing out of hose lines, and wiring of hose couplers.

Date Completed	Supervisor's Signature	Apprentice's Signature
_____	_____	_____

U0571.04 Check and adjust sandblasting equipment, including checking that the screen is clean, setting the valves to operating position, checking gauges for correct pressure readings, checking the blast stream, and filling the pot with abrasive, according to manufacturers' instructions and to the OHSA.

Date Completed	Supervisor's Signature	Apprentice's Signature
_____	_____	_____

U0571.05 Direct a blast of wet or dry abrasive-laden stream (e.g., silica, walnut shells, glass beads) to clean the specified surface of the pre-cast concrete unit according to an approved sample.

Date Completed	Supervisor's Signature	Apprentice's Signature
_____	_____	_____

U0571.06 Check and adjust sandblasting equipment during operation, including checking air and sand mixture, adjusting pressure and concentration of abrasive, checking for, and clearing blockages, and filling the pot with abrasive as required.

Date Completed	Supervisor's Signature	Apprentice's Signature
_____	_____	_____

UOS71.0 USE HAND AND POWER TOOLS AND EQUIPMENT - cont'd

U0571.07 Shut down sandblasting equipment, including closing valves, blowing abrasive out of hose lines, disconnecting, sealing and tying all hoses, shutting down compressor, storage, care and maintenance of equipment, materials, and personal protective devices and apparel.

Date Completed	Supervisor's Signature	Apprentice's Signature
_____	_____	_____

U0571.08 Clean equipment (according to manufacturers' instructions) and the worksite, leaving them in safe and reusable condition and disposing of spent materials according to OHSA.

Date Completed	Supervisor's Signature	Apprentice's Signature
_____	_____	_____

Employer's Name	Employer's Signature
_____	_____

UOS72.0 USE ACCESS EQUIPMENT

GENERAL PERFORMANCE OBJECTIVES

Select, use and maintain access equipment such as scaffolding, suspended access equipment, steps and ladders, "zoom booms" and scissor lifts, and related rigging and equipment, following safety legislation, prescribed safety procedures and manufacturers' instructions.

TERMINAL PERFORMANCE OBJECTIVES

Supervisor's Name (print)

Apprentice's Name (print)

SKILLS

U0572.01

Select the appropriate equipment to access the job to be done, taking into consideration the nature and location of the work and the job-site, and weather conditions.

Date Completed

Supervisor's Signature

Apprentice's Signature

U0572.02

Select, erect, use, dismantle, store and maintain scaffolding equipment and components, including frames, cross-bracing, stilts or leg extensions, platforms, casters, decking, powered climbers, manual traction climbers, guard rails and barriers, outrigger beams, counterweights and mobile working platforms, according to manufacturers' instructions and OHS/A.

Date Completed

Supervisor's Signature

Apprentice's Signature

U0572.0 USE ACCESS EQUIPMENT - cont'd

U0572.03 Select, install, use, dismantle and maintain suspended access equipment, including swing stages, rope fall equipment stages, climber stages (manual traction, drill-powered and conventionally powered traction, powered drum hoist), boatswain's chairs with rope falls, descent control devices, or powered climbers, and work cages with powered climber units, according to manufacturers' instructions and OHSA.

Date Completed	Supervisor's Signature	Apprentice's Signature
_____	_____	_____

U0572.04 Select, use and maintain rigging for suspended access equipment, such as wire rope, rigging hardware, and personal safety devices, lifelines, full body harness, lanyards, rope grabbing devices, and triple sliding hitch, according to OHSA.

Date Completed	Supervisor's Signature	Apprentice's Signature
_____	_____	_____

U0572.05 Set up, inspect and operate suspended access equipment, on approved existing structures and using, as required, counterweights, outrigger beams, tiebacks, parapet clamps, and anchorage points, within the rated limits of the equipment, in accordance with engineered standards and the OHSA.

Date Completed	Supervisor's Signature	Apprentice's Signature
_____	_____	_____

U0572.0 USE ACCESS EQUIPMENT - cont'd

U0572.06 Select, use and maintain wooden, aluminum and fiberglass step ladders, conventional and extension ladders, cleat-type, double width, self-supporting, and vertical access ladders, according to manufacturers' instructions and OHSA.

Date Completed

Supervisor's Signature

Apprentice's Signature

U0572.07 Adjust and operate "zoom booms" and scissor lifts according to manufacturers' instructions and OHSA, making sure that the ground conditions are appropriate (grade, stability, etc.), outriggers are extended, prescribed distance from electrical hazards is maintained, safety guards are in place, and hoarding is in place to protect workers and public.

Date Completed

Supervisor's Signature

Apprentice's Signature

Employer's Name

Employer's Signature

U0573.0 REPAIR DEFECTS

GENERAL PERFORMANCE OBJECTIVES

Repair defects by preparing the defect area, repairing structural defects, reporting unusual conditions, matching original colour and texture, applying the repair and patching materials, recreating the original surface, and curing the re-surfaced area.

TERMINAL PERFORMANCE OBJECTIVES

Supervisor's Name (print) Apprentice's Name (print)

SKILLS

U0573.01 Prepare the area to be repaired by removing loose material from defect areas using a chipping gun, hammer or chisel; cleaning the surface using water, solvents or power scrubbers; or roughening the surface by bush hammering, sandblasting, scarifying or acid-etching, according to Canadian Standards Association (CSAA-251), as required, and WHMIS.

Date Completed Supervisor's Signature Apprentice's Signature

U0573.02 Repair structural defects, such as major spalls and structural cracks, by following engineers' procedures, such as reinforcing the defect with bars and steel plates, or epoxy injection.

Date Completed Supervisor's Signature Apprentice's Signature

U0573.0 REPAIR DEFECTS - cont'd

U0573.03 Report to supervisor any conditions that appear to require corrective action.

Date Completed	Supervisor's Signature	Apprentice's Signature
_____	_____	_____

U0573.04 Match the original colour and texture of the precast concrete surface to be repaired by selecting and mixing cement, sand, admixtures, aggregates and pigments according to a prescribed mix design based on a sample surface approved by the architect.

Date Completed	Supervisor's Signature	Apprentice's Signature
_____	_____	_____

U0573.05 Apply a base coat of patching mixture approximately 1/4 inch (6 mm) thick over damaged area, using trowels, paint brush and float; apply aggregate mixed with patching material to damaged area and recreate the original surface (e.g. smooth, sandblasted, acid-etched finishes).

Date Completed	Supervisor's Signature	Apprentice's Signature
_____	_____	_____

U0573.06 Apply aggregate mixed with patching material to damaged area of exposed aggregate finishes, clean surface with a stiff bristle or wire brush followed immediately with a water spray to remove concrete from surface to the required depth or aggregate exposure.

Date Completed	Supervisor's Signature	Apprentice's Signature
_____	_____	_____

U0573.0 REPAIR DEFECTS - cont'd

U0573.07 Sandblast repaired area using sandblasting apparatus (nozzles, sandblast pots, compressors and hoses) to match the existing finishes, paying particular attention to the depth of penetration, protection of adjacent materials, environmental impact, the distances between the nozzle and the contact surface, blending techniques and achieving uniformity.

Date Completed	Supervisor's Signature	Apprentice's Signature
_____	_____	_____

U0573.08 ACid-etch repaired area to match original textured surface using muriatic acid mixed accurately to ensure consistent batches, even application and removal across the surface, employing plastic pails, acid brush and water, paying particular attention to the protection of adjacent materials, environmental impact, blending techniques and uniformity, and wearing prescribed protective equipment in accordance with WHMIS.

Date Completed	Supervisor's Signature	Apprentice's Signature
_____	_____	_____

U0573.09 Recreate matching concrete surface texture by bush-hammering, using a portable chipping gun with a bush head, paying particular attention to the protection of adjacent materials, environmental impact, blending techniques and uniformity, and wearing prescribed protective equipment in accordance with WHMIS.

Date Completed	Supervisor's Signature	Apprentice's Signature
_____	_____	_____

UOS73.0 REPAIR DEFECTS - cont'd

U0573.10 Create a matching broom finish, according to a sample approved by the architect, by dragging a broom across the surface of a semi-plastic concrete repair area, paying particular attention to the protection of adjacent materials, blending techniques and uniformity.

Date Completed	Supervisor's Signature	Apprentice's Signature
_____	_____	_____

U0573.11 Cure pre-cast concrete patches by covering the repaired/patched areas with styrofoam or polyethylene sheets secured with masking tape or other coverings that are kept constantly moist, and ensuring that curing temperature is within prescribed range so that the patch is not adversely affected.

Date Completed	Supervisor's Signature	Apprentice's Signature
_____	_____	_____

Employer's Name	Employer's Signature
_____	_____

U0574.0 CLEAN PRE-CAST CONCRETE SURFACES

GENERAL PERFORMANCE OBJECTIVES

Clean pre-cast concrete surfaces by protecting adjacent surfaces, pre-testing sample surface, mixing cleaning agents, and removing stains from rust, coffee, tea, chocolate, oil, tar, paint, and welding or diesel smoke.

TERMINAL PERFORMANCE OBJECTIVES

Supervisor's Name *(print)*

Apprentice's Name *(print)*

SKILLS

U0574.01 Protect adjacent surfaces of precast concrete units from damage and/or staining by acids, solvents, and cleaning agents by means of protective coverings such as tarpaulins, plywood, metal or plastic sheeting.

Date Completed

Supervisor's Signature

Apprentice's Signature

U0574.02 Pre-test sample surface to be cleaned in an inconspicuous location, in order to establish the most effective cleaning procedure and to determine possible adverse effects to adjacent materials.

Date Completed

Supervisor's Signature

Apprentice's Signature

UOS74.0 **CLEAN PRE-CAST CONCRETE SURFACES - cont'd**

U0574.03 Mix cleaning agents such as muriatic acid and "deox" with water, using correct proportions, and in accordance with manufacturers' instructions and WHMIS.

Date Completed	Supervisor's Signature	Apprentice's Signature
_____	_____	_____

U0574.04 Remove rust stains from precast concrete surface by first wetting the surface to be cleaned, sanding with a rubbing stone, wire brushing lightly with a dilute solution of muriatic acid or "deox", and rinsing thoroughly with clean water.

Date Completed	Supervisor's Signature	Apprentice's Signature
_____	_____	_____

U0574.05 Remove rust stains caused by rebar by chipping out the stained pre-cast concrete material and protecting the rebar in accordance with prescribed procedures, such as the application of a protective coating, and patching.

Date Completed	Supervisor's Signature	Apprentice's Signature
_____	_____	_____

U0574.06 Remove coffee, tea or chocolate stains from precast concrete surfaces in accordance with prescribed procedures, such as cleaning with diluted muriatic acid or commercial cleaner, or rubbing with coarse silica or fine sandpaper.

Date Completed	Supervisor's Signature	Apprentice's Signature
_____	_____	_____

PRE-CAST CONCRETE FINISHER

UOS74.0 CLEAN PRE-CAST CONCRETE SURFACES - cont'd

U0574.07 Remove oil stains from pre-cast concrete finishes by soaking up stain with dry cement, cleaning with acetone or dilute muriatic acid, and rinsing with clean water.

Date Completed

Supervisor's Signature

Apprentice's Signature

U0574.08 Remove tar stains from pre-cast concrete finishes by chipping out tar with scotch hammer, applying acetone or dilute muriatic acid if required, and rinsing with clean water.

Date Completed

Supervisor's Signature

Apprentice's Signature

U0574.09 Remove paint stains from pre-cast concrete surfaces by sandblasting, or by chipping with a scotch hammer.

Date Completed

Supervisor's Signature

Apprentice's Signature

U0574.10 Remove welding and diesel smoke stains from pre-cast concrete surfaces by cleaning with a wire brush (for fresh stains), or by cleaning older stains with sandpaper, dilute muriatic acid or acetone, or chipping out stained area and patching it according to prescribed procedures.

Date Completed

Supervisor's Signature

Apprentice's Signature

Employer's Name

Employer's Signature

U0575.0 APPLY GROUT

GENERAL PERFORMANCE OBJECTIVE

Apply grout by cleaning the surfaces to be grouted, preparing concrete surfaces, installing fonnwork around joints, mixing and applying grout, and protecting the grouted surfaces.

TERMINAL PERFORMANCE OBJECTIVES

Supervisor's Name (print)

Apprentice's Name (print)

SKILLS

U0575.01 Clean all surfaces to be grouted of ice, snow, dirt, and other foreign matter, using water, brushes, scrapers and other prescribed tools and materials, and report any obvious connection deficiencies.

Date Completed

Supervisor's Signature

Apprentice's Signature

U0575.02 Prepare concrete surfaces by applying parging, priming and bonding agents in accordance with manufacturers' specifications and OHSA.

Date Completed

Supervisor's Signature

Apprentice's Signature

U0575.03 Install fonnwork around joints when using flowable grout to avoid leakage and to resist grouting pressure.

Date Completed

Supervisor's Signature

Apprentice's Signature

U0575.0 **APPLY GROUT- cont'd**

U0575.04 Mix grout as per manufacturers' and designers' specifications (to prescribed slump, if required) and apply with appropriate hand and power tools, using access, alignment, levelling, plumbing and forming tools and equipment selected for the specific job, and proceeding in accordance with the OHSA.

Dale Completed Supervisor's Signature Apprentice's Signature

U0575.05 Protect grout from inclement weather conditions by following manufacturers' specifications, such as the application of heat, provision of an enclosed protective environment, the addition of additives, or the use of specialty grouts such as expansive, non-shrink or epoxy grout.

Date Completed Supervisor's Signature Apprentice's Signature

Employer's Name Employer's Signature

U0576.0 **APPLY CAULKING**

GENERAL PERFORMANCE OBJECTIVES

Apply caulking to pre-cast concrete joints by cleaning and preparing the surfaces to be treated, applying primer as required, preparing and applying Caulking and sealant, tooling and finishing caulking, and cleaning tools and equipment.

TERMINAL PERFORMANCE OBJECTIVES

Supervisor's Name (print)

Apprentice's Name (print)

SKILLS

U0576.01 Clean all joints to be caulked, of ice, snow, dirt and other foreign matter, using a wire brush or grinding machine, and ensure that the surface is dry.

Date Completed

Supervisor's Signature

Apprentice's Signature

U0576.02 Apply primer, if required, taking precautions to avoid staining the outside face of the precast units, and install backer rod or other joint filler in accordance with manufacturers' specifications and OHSA.

Date Completed

Supervisor's Signature

Apprentice's Signature

UOS76.0 APPLY CAULKING - cont'd

U0576.03 Mix caulking and colouring with a drill and paddle, according to manufacturers' specifications and an approved sample, and apply to the joint using a caulking gun.

Date Completed	Supervisor's Signature	Apprentice's Signature
_____	_____	_____

U0576.04 Tool the caulking to a slightly concave shape to eliminate air pockets or voids, using tools such as margin trowels, putty knives or wooden sticks and avoiding contact with the skin, taking special precautions for different surfaces to be caulked.

Date Completed	Supervisor's Signature	Apprentice's Signature
_____	_____	_____

U0576.05 Clean tools and equipment with cleaning agent such as soap and water for latex-based caulking, or spirit solvent for oil-based caulking, according to WHMIS.

Date Completed	Supervisor's Signature	Apprentice's Signature
_____	_____	_____

Employer's Name	Employer's Signature
_____	_____

COMPETENCY ANALYSIS PROFILE
PRE-CAST CONCRETE FINISHER
 SKILLS

AREAS OF
 COMPETENCY

PROTECT SELF AND OTHERS U0570.00	Apply safety directives provided in legislation. U0570.01	Keep the workplace clean and well-organized. U0570.02	Follow fire procedures. U0570.03	Practice basic first aid. U0570.04	Confirm lighting. U0570.05
	Install guard rails. U0570.06	Use the safety features of tools and equipment. U0570.07	Use and maintain protective apparel and devices. U0570.06	Confirm ventilation. U0570.09	Lift and carry heavy objects. U0570.10
	Report accidents. U0570.11	Use access equipment. U0570.12	Comply with safety procedures. U0570.13	Dispose of solvents. U0570.14	
USE HAND AND POWER TOOLS AND EQUIPMENT U0571.00	Use and maintain hand tools. U0571.01	Use and maintain power tools. U0571.02	Set up sandblasting equipment. U0571.03	Check and adjust sandblasting equipment. U0571.04	Direct blast U0571.05
	Check and adjust sandblasting equipment during operation. U0571.06	Shut down sandblasting equipment. U0571.07	Clean equipment. U0571.08		
USE ACCESS EQUIPMENT U0572.00	Select appropriate equipment. U0572.01	Use and maintain scaffolding equipment. U0572.02	Use and maintain suspended access equipment. U0572.03	Use and maintain rigging. U0572.04	Inspect and operate suspended access equipment. U0572.05
	Use and maintain step ladders. U0572.06	Operate "zoom booms" and scissor lifts. U0572.07			
REPAIR DEFECTS U0573.00	Prepare the area. U0573.01	Repair structural defects. U0573.02	Report conditions require corrective action. U0573.03	Match original colour and texture. U0573.04	Apply base coat. U0573.05

COMPETENCY ANALYSIS PROFILE
PRE-CAST CONCRETE FINISHER

AREAS OF
 COMPETENCY

SKILLS

	Apply aggregate. U0573.06	Sandblast area. U0573.07	Acid-etch area. U0573.08	Recreate texture. U0573.09	Create matching broom finish. U0573.10
	Cure patches. U0573.11				
CLEAN PRE-CAST CONCRETE SURFACES U0574.00	Protect surfaces. U0574.01	Pre-test surface. U0574.02	Mix cleaning agents. U0574.03	Remove rust stains. U0574.04	Remove rust stains caused by rebar. U0574.05
	Remove coffee, tea or chocolate stains. U0574.06	Remove oil stains. U0574.07	Remove tar stains. U0574.08	Remove paint stains. U0574.09	Remove welding and diesel smoke stains U0574.10
APPLY GROUT U0575.00	Clean surfaces. U0575.01	Prepare concrete. U0575.02	Install formwork. U0575.03	Mix grout U0575.04	Protect grout. U0575.05
APPLY CAULKING U0576.00	Clean of joints. U0576.01	Apply primer. U0576.02	Mix caulking. U0576.03	Tool the caulking. U0576.04	Clean tools and equipment. U0576.05