

PMA CHEMICAL, HYDROCARBONS AND REFINING

TRAINING PACKAGE

Version 2.3

WA NOMINAL HOURS GUIDE

Introduction

This Guide has been generated to enable the stakeholders in this Industry in Western Australia to participate in the managed implementation of the National PMA Chemical, Hydrocarbons and Refining Training Package.

This Guide is designed to aid Registered Training Organisations (RTOs) to convert from existing Training Package qualifications to new Training Package qualifications within the scope of their training delivery.

The Guide should be read in conjunction with the endorsed components of the Training Package.

Version 2.3 of the PMA Chemical, Hydrocarbons and Refining was released by Training.Gov.Au (TGA) on the 21/09/2022.

Transition Arrangements

Registered Training Organisations (RTOs) are required to deliver Training Package qualifications in accordance with the Standards for RTOs. For further information visit the Training Accreditation Council website www.tac.wa.gov.au

Nominal Hours

Nominal hours are the hours of training notionally required to achieve the outcomes of units of competency.

Nominal hours are identified for nationally endorsed qualifications. Nominal hours may vary for a qualification depending on the selection of units of competency.

In Western Australia, nominal hours are used as a mechanism for funding allocation.

Contact Details

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Qualifications and Nominal Hours

The following table provides a summary of the qualifications and nominal hours in the training package.

National Code	National Title	Nominal Hours
PMA20116	Certificate II in Process Plant Operations	475
PMA30120	Certificate III in Process Plant Operations	690
PMA40116	Certificate IV in Process Plant Technology	985
PMA50116	Diploma of Process Plant Technology	421
PMA60116	Advanced Diploma of Process Plant Technology	821

Skill Sets and Nominal Hours

The following table provides a summary of the skill sets and nominal hours in the training package.

National Code	National Title	Nominal Hours
PMASS00013	Pipeline liquids transmission	140
PMASS00014	Pipeline gas transmission	130
PMASS00015	Workplace assessor, trainer, coach	190
PMASS00016	Confined space work team	96
PMASS00017	Contractor induction	46
PMASS00019	Hot work observer	92
PMASS00020	Incident response commander	190
PMASS00021	Incident response team leader	130
PMASS00022	Incident response team member	271
PMASS00023	Offshore crane driver	146
PMASS00024	Offshore incident response team member	301
PMASS00025	Offshore operator safety induction	128

Units of Competency and Nominal Hours

The following table provides a summary of the units of competency and nominal hours in the training package.

National Code	National Title	Nominal Hours
PMAOMIR210	Control evacuation to muster point	20
PMAOMIR301	Undertake initial rescue	60
PMAOMIR302	Respond to a helideck incident	30
PMAOMIR306	Operate control panel during an emergency	45
PMAOMIR317	Facilitate search and rescue operations	40
PMAOMIR322	Manage incident response information	40
PMAOMIR323	Manage communication systems during an incident	30
PMAOMIR346	Assess and secure an incident site	30
PMAOMIR407	Audit incident preparedness and established response systems	80
PMAOMIR418	Coordinate incident response	40
PMAOMIR424	Develop and maintain community relationships	30
PMAOMIR430	Conduct and assess incident exercises	35
PMAOMIR444	Develop incident containment tactics	40
PMAOMIR512	Establish incident response preparedness and response systems	80
PMAOMIR650	Manage a crisis	80
PMAOPS101	Read dials and indicators	15
PMAOPS105	Select and prepare materials	15
PMAOPS201	Operate fluid flow equipment	60
PMAOPS202	Operate fluid mixing equipment	20
PMAOPS204	Select and use utilities and services	40
PMAOPS205	Operate heat exchangers	40
PMAOPS208	Operate chemical separation equipment	20
PMAOPS210	Operate solids handling equipment	20

PMAOPS213	Package product/material	20
PMAOPS216	Operate local control system	40
PMAOPS217	Operate wet milling equipment	40
PMAOPS220	Monitor chemical reactions in the process	30
PMAOPS221	Operate and monitor prime movers	40
PMAOPS222	Operate and monitor pumping systems and equipment	40
PMAOPS223	Operate and monitor valve systems	20
PMAOPS224	Provide fluids for utilities and support	30
PMAOPS226	Monitor and operate flare systems	26
PMAOPS230	Monitor, operate and maintain pipeline stations and equipment	40
PMAOPS231	Control gas odourisation	10
PMAOPS232	Operate filtration equipment	40
PMAOPS233	Monitor wells and gathering systems	30
PMAOPS234	Monitor and operate low pressure compressors	20
PMAOPS236	Monitor continuous process plant	35
PMAOPS240	Store fluids in bulk	30
PMAOPS241	Operate Joule-Thomson effect device	20
PMAOPS246	Operate separation equipment	15
PMAOPS247	Operate powered separation equipment	15
PMAOPS260	Conduct screening operations	25
PMAOPS261	Operate bulk solids loading equipment	25
PMAOPS262	Operate digestion equipment	25
PMAOPS264	Operate solvent extraction equipment	25
PMAOPS280	Interpret process plant schematics	20
PMAOPS306	Operate and troubleshoot production unit	40
PMAOPS309	Operate solids handling/storage facility	40
PMAOPS310	Operate and troubleshoot distillation system	40

PMAOPS311	Operate and troubleshoot reactors and reaction equipment	40
PMAOPS313	Operate and troubleshoot furnaces to induce reaction	40
PMAOPS314	Operate and troubleshoot compressor systems	30
PMAOPS315	Operate and troubleshoot process control systems	60
PMAOPS316	Organise storage and logistics of general materials	20
PMAOPS317	Undertake ship transfer operations	40
PMAOPS318	Conduct artificial lift	20
PMAOPS319	Adjust batch	40
PMAOPS322	Undertake well management	40
PMAOPS328	Operate and troubleshoot heating furnace	40
PMAOPS331	Operate and troubleshoot gas turbine system	50
PMAOPS332	Generate electrical power	30
PMAOPS334	Operate and troubleshoot gas absorption system	40
PMAOPS336	Operate and troubleshoot fixed-bed adsorption system	40
PMAOPS337	Operate and troubleshoot liquid extraction system	40
PMAOPS338	Communicate and monitor pipeline activities	40
PMAOPS339	Operate and troubleshoot wells and gathering systems	40
PMAOPS341	Operate and troubleshoot cryogenic processes	40
PMAOPS342	Conduct pipeline pigging	20
PMAOPS343	Transfer bulk fluids into/out of storage facility	50
PMAOPS344	Operate and troubleshoot flare systems	40
PMAOPS345	Operate and troubleshoot gas treatment process	60
PMAOPS346	Operate and troubleshoot liquefaction process	40
PMAOPS347	Create and conduct isolations in the workplace	60
PMAOPS348	Operate safety, protection and shutdown systems	50
PMAOPS349	Operate and troubleshoot hydraulic systems	40
PMAOPS350	Match and adjust colour	40

PMAOPS351	Operate and troubleshoot turret swivel systems	40
PMAOPS352	Operate and troubleshoot instrument and plant air systems	40
PMAOPS353	Operate and troubleshoot heating, ventilation and air conditioning systems	60
PMAOPS354	Operate and troubleshoot inert gas generation systems	40
PMAOPS355	Operate and troubleshoot fuel systems	40
PMAOPS356	Operate and troubleshoot water treatment systems	60
PMAOPS357	Operate and troubleshoot produced water and water injection systems	40
PMAOPS358	Process design fundamentals	40
PMAOPS359	Operate and troubleshoot process measurement and control systems	40
PMAOPS363	Operate and troubleshoot export systems	30
PMAOPS367	Operate and troubleshoot cooling water systems	40
PMAOPS368	Operate and troubleshoot heating medium/hot oil systems	40
PMAOPS369	Operate and troubleshoot drain and vent systems	30
PMAOPS370	Operate and troubleshoot condensate stabilisation systems	40
PMAOPS390	Operate a biochemical process	40
PMAOPS402	Respond to abnormal process situations	50
PMAOPS405	Operate complex control systems	80
PMAOPS410	Operate remote production facilities	40
PMAOPS411	Manage plant shutdown and restart	40
PMAOPS433	Manage wells and gathering systems	50
PMAOPS434	Commission wells and gathering systems	40
PMAOPS450	Solve colour problems	50
PMAOPS460	Monitor and operate tailings management facilities	45
PMAOPS500	Optimise production systems	100
PMAOPS501	Provide operational expertise to a project team	80
PMAOPS505	Control the process during abnormal situations	80
PMAOPS511	Determine energy transfer loads	40

PMAOPS512	Determine mass transfer loads	40
PMAOPS520	Manage utilities	50
PMAOPS521	Plan plant shutdown	50
PMAOPS522	Coordinate plant shutdown	50
PMAOPS600	Modify plant	60
PMAOPS601	Debottleneck plant	60
PMASMELT260	Form carbon anodes	40
PMASMELT261	Bake carbon anodes	30
PMASMELT262	Clean and strip anode rods	30
PMASMELT263	Spray carbon anodes	40
PMASMELT264	Start up reduction cells	60
PMASMELT265	Operate reduction cells	60
PMASMELT266	Deliver molten metal	30
PMASMELT267	Cast ingots	40
PMASMELT268	Operate vertical direct casting process	60
PMASMELT269	Operate cell tending equipment	30
PMASMELT270	Supply product from reduction cells	30
PMASUP236	Operate vehicles in the field	20
PMASUP237	Undertake crane, dogging and load transfer operations	40
PMASUP241	Maintain pipeline easements	20
PMASUP242	Monitor pipeline civil works	20
PMASUP243	Monitor and maintain pipeline coatings	20
PMASUP244	Prepare and isolate plant	30
PMASUP245	Break and make flanged joints using hand tools	25
PMASUP246	Disconnect and reconnect non-flared tube fitting joints	25
PMASUP305	Operate offshore cranes	80
PMASUP311	Operate communications hub	40

PMASUP341	Monitor and maintain instrument and control systems	40
PMASUP342	Monitor and maintain electrical systems	40
PMASUP345	Monitor vibration	60
PMASUP348	Monitor and maintain cathodic protection systems	20
PMASUP349	Monitor and control repairs and modifications on operational pipe	40
PMASUP350	Control corrosion	40
PMASUP410	Develop plant documentation	30
PMASUP420	Minimise environmental impact of process	40
PMASUP440	Commission/recommission plant	40
PMASUP441	Decommission plant	20
PMASUP444	Plan plant preparation and isolation	50
PMASUP445	Participate in HAZOP studies	40
PMASUP520	Review procedures to minimise environmental impact of process	40
PMASUP540	Analyse equipment performance	50
PMAWHS211	Prepare equipment for emergency response	20
PMAWHS213	Undertake fire control and emergency rescue	15
PMAWHS214	Undertake helicopter safety and escape	30
PMAWHS215	Apply offshore facility abandonment and sea survival procedures and practices	20
PMAWHS310	Investigate incidents	30
PMAWHS311	Lead emergency teams	20
PMAWHS312	Command the operation of survival craft	40
PMAWHS320	Provide advanced first aid response	20
PMAWHS502	Contribute to safety case	40
PMAWHS511	Manage emergency incidents	40

Mapping Qualifications

The following table provides an overview of the qualifications from version 2.3 which replace qualifications from the existing version of the PMA Chemical, Hydrocarbons and Refining Training Package.

Current Qualification			Replacement Qualification			
National Code	National Title	Nominal Hours	E / NE	National Code	National Title	Nominal Hours

No changes occurred between versions 2.2 and 2.3.

Mapping Skill Sets

The following table provides an overview of the skill sets from version 2.3 which replace skill sets from the existing version of the PMA Chemical, Hydrocarbons and Refining Training Package.

Current Skill Set			Replacement Skill Set			
National Code	National Title	Nominal Hours	E / NE	National Code	National Title	Nominal Hours

No changes occurred between versions 2.2 and 2.3.

Mapping Units of Competency

The following table provides an overview of the units of competency from version 2.3 which replace units of competency from the existing version of the PMA Chemical, Hydrocarbons and Refining Training Package

Current Unit				Replacement Unit		
National Code	National Title	Nominal Hours	E / NE	National Code	National Title	Nominal Hours

No changes occurred between versions 2.2 and 2.3.

Apprenticeships

The following table provides a summary of the apprenticeships that have been affected by changes in this PMA Chemical, Hydrocarbons and Refining Training Package update.

Please refer to the current *Register of Class A and B qualifications* found on the Department of Training and Workforce Development website for the official list of apprenticeships in Western Australia.

Current Qualification					Replacement Qualification		
National Code	National Title	Apprenticeship	Nominal Hours	E / NE	National Code	National Title	Nominal Hours

No changes occurred between versions 2.2 and 2.3.

Traineeships

The following table provides a summary of the traineeships that have been affected by changes in this PMA Chemical, Hydrocarbons and Refining Training Package update.

Please refer to the current *Register of Class A and B qualifications* found on the Department of Training and Workforce Development website for the official list of apprenticeships in Western Australia.

Current Qualification			Replacement Qualification				
National Code	National Title	Traineeship	Nominal Hours	E / NE	National Code	National Title	Nominal Hours

No changes occurred between versions 2.2 and 2.3.

Pre-apprenticeships

The following table provides a summary of the pre-apprenticeships that have been affected by changes in this PMA Chemical, Hydrocarbons and Refining Training Package update.

Please refer to the current *list of pre-apprenticeship courses* found on the Department of Training and Workforce Development website for the official list of pre-apprenticeships in Western Australia.

Current Qualification					Replacement Qualification		
National Code	National Title	Pre-Apprenticeship	Nominal Hours	E / NE	National Code	National Title	Nominal Hours

No changes occurred between versions 2.2 and 2.3.