Modification history

|  |  |
| --- | --- |
| Release | Comments |
| Release 1 | This version released with PPM Training Package Version 1.0. |

| PPMDEO330 | Co-ordinate and implement dry end shutdown |
| --- | --- |
| Application | This unit of competency describes the outcomes required to implement, assess and record dry end shutdowns in the pulp and paper industry.  This unit applies to operators and technicians who co-ordinate and implement dry end shutdown, in a pulp and paper manufacturing facility. This typically involves working in a facility with complex integrated equipment and continuous operations. Dry end operations describe a range of systems and sub systems including drying processes, reeling operations, chemical additive system, monitoring systems, sheet treatment processes, tail feed systems, broke system, on-line coating systems, calendering systems, vacuum systems, laser systems, slitter systems, sheet transfer systems, accumulator, cleaning showers.  No licensing, legislative or certification requirements apply to this unit at the time of publication. |
| Prerequisite Unit | Nil |
| Unit Sector | Pulp and Paper Manufacturing (PPM) |

| Elements | Performance Criteria |
| --- | --- |
| Elements describe the essential outcomes. | Performance criteria describe the performance needed to demonstrate achievement of the element. |
| 1. Implement planned shutdown procedures | 1.1. Co-ordinate planned shutdown of dry end operations from work area instructions or maintenance schedules.  1.2. Manage plant or system shutdown in accordance with productivity requirements, relevant workplace health and safety (WHS) procedures, risks and hazards identification and environmental workplace procedures.  1.3. Check equipment during shutdown.  1.4. Implement isolation requirements, according to standard operating procedures (SOP) and housekeeping requirements.  1.5. Communicate shutdown information to relevant personnel. |
| 2. Assess causes and effects of unplanned shutdown | 2.1. Respond to and rectify unplanned shutdown.  2.2. Identify and locate cause of unplanned shutdown.  2.3. Assess the effects of unplanned shutdown to determine impact on operations. |
| 3. Record and report shutdown information | 3.1. Record shutdown information, including corrective action.  3.2. Report shutdown information to relevant personnel. |

| Foundation Skills  This section describes those language, literacy, numeracy and employment skills that are essential for performance in this unit of competency but are not explicit in the performance criteria. | |
| --- | --- |
| Skill | Description |
| Numeracy skills to: | * interpret instruments, gauges and data recording equipment during shutdown. |
| Oral communication skills to: | * select and use appropriate spoken communication strategies with work colleagues and other personnel on site. |
| Reading skills to: | * read and interpret diagrams, documentation, procedure manuals and test results when undertaking shutdown. |
| Writing skills to: | * complete forms and records accurately and legibly using correct technical vocabulary * access, navigate and enter computer based information. |
| Problem solving skills to: | * maintain situational awareness in the work area * analyse and use sensory information to adjust process to maintain and co-ordinate safety, quality and productivity. |
| Technology skills to: | * use electronic and other control systems to control equipment and processes for shutdowns. |

|  |  |  |  |
| --- | --- | --- | --- |
| Unit Mapping Information | | | |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| PPMDEO330 Co-ordinate and implement dry end shutdown | PPMDEO330A Co-ordinate and implement dry end shutdown |  | Equivalent unit |

|  |  |
| --- | --- |
| Links | Companion Volumes, including Implementation Guides, are available at VETNet:  https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=12998f8d-d0ac-40bc-a69e-72a600d4fd93 |

| TITLE | Assessment requirements for PPMDEP330 Co-ordinate and implement dry end shutdown |
| --- | --- |
| Performance Evidence | |
| A person demonstrating competency in this unit must satisfy all of the elements and performance criteria of this unit, and must be able to provide evidence that they can:   * assess, implement and record dry end shutdowns, at least twice in line with required enterprise intervals, by: * co-ordinating and implementing dry end shutdowns from work area instructions and safety procedures * assessing causes of unplanned shutdowns * using and interpreting electronic control systems, including Digital Control System (DCS), touch screens or robotics to control equipment and processes during shutdowns * reporting on operational data relevant to shutdowns * communicating effectively, through written and verbal means, and working safely with others, in the work area when undertaking dry end shutdowns. | |

| Knowledge Evidence |
| --- |
| A person competent in this unit must be able to demonstrate knowledge of:   * organisational procedures relevant to workplace health and safety with particular emphasis on: * use of personal protective equipment (PPE) * equipment lock out and isolation procedures * handling chemicals and hazardous substances, including spill and disposal guidelines * plant clearance requirements * emergency procedures and responses * job safety analysis documentation and processes * plant permit systems and processes * high risk load shifting licensing requirements where relevant * major hazard facility requirements where relevant * documentation and procedures relevant to dry end shutdowns in the pulp and paper industry including: * Standard Operating Procedures (SOP) * productivity requirements and quality * environmental sustainability requirements * machinery and plant manufacturing operating manuals * confined space requirements * Material Safety Data Sheets (MSDS) * plant isolation and safe work documentation requirements * maintenance logs, job sheets, site agreements * process and instrument diagrams * types of materials and their uses in dry end operations including: * chemicals * compressed air * water * electricity * gas * steam * additives * machine clothing * ropes and belts * hazards and risks identification including steam and/or gas leaks, fires, nip points, compressed air, hot surfaces, electrical entanglement, slip hazards/falls, energy, pressures, chemicals, fumes, confined spaces and dust * responses to all unplanned shutdowns (power outage, mechanical breakdown, blockages, jamming, air supply, control system failure) to ensure safety quality and productivity * dry end operations including drying processes, reeling operations, chemical additive system, monitoring systems, sheet treatment processes, tail feed systems, broke system, on-line coating systems, calendering systems, vacuum systems, laser systems, slitter systems, sheet transfer systems, accumulator and cleaning showers * dry end plant, processes, layout and associated services sufficient to carry out shutdown activities * electronic and other control systems, operation and application to make appropriate adjustments that control the dry end, within level of responsibility |

| Assessment Conditions |
| --- |
| The following resources must be made available:   * access to the full range of equipment involved in integrated continuous manufacturing of dry end systems in a pulp or paper manufacturing facility * electronic screens and alarms, process control systems, analogue and digital instrumentation for dry end systems * equipment, machinery and resources to co-ordinate the shutdown of dry end systems * personal protective equipment required for operating dry end system shutdowns * relevant personnel for the purposes of communicating information * applicable work health and safety (WHS) and isolation work place procedures, environmental guidelines and safe working requirements, risks and hazard identification and workplace housekeeping requirements. * Competency is to be assessed in the workplace or in a productive environment that accurately reflects performance in a workplace.   Assessor requirements  Assessors must:   * hold the appropriate assessor competency standards as outlined in regulations; and * be able to demonstrate vocational competencies at least to the level being assessed; and * be able to demonstrate how they are continuing to develop their VET knowledge and skills as well as maintaining their industry currency and assessor competence. |

|  |  |
| --- | --- |
| Links | Companion Volumes, including Implementation Guides, are available at VETNet:  https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=12998f8d-d0ac-40bc-a69e-72a600d4fd93 |